Dr. Max Rothschild has served at innumerous leading roles throughout his distinguished international career in animal genetics. From 2011 to 2016, Dr. Rothschild served as a Jefferson Science Fellow at the United States Agency for International Development (USAID) Bureau for Food Security where he analyzed the research portfolio of many USAID Feed the Future projects. As a result of his efforts Dr. Rothschild received a USAID Meritorious Honor team award in 2013. Since 2008 he has served as associate director for Livestock and Animal Health, Center for Sustainable Rural Livelihoods (CSRL), Iowa State University (ISU), with a focus on development of livestock programs in Uganda. At ISU, he served as the section leader for Animal Breeding and Genetics from 1997 to 2001, as co-director for the Center for Integrated Animal Genomics from 2002 to 2012.

Starting in 1993, Dr. Rothschild was selected as the first USDA pig genome coordinator, a prestigious position he led until 2013. He facilitated pig genomics research throughout the United States, produced a bimonthly newsletter, and started the AnGenMap listserv (still in active use today).

With others he received the Federal Labs Consortium for Technology Transfer Excellence in Tech Transfer for iSNP Consortium in 2011. Since 1995 Dr. Rothschild has been a core member of the Organizing Committee for the Plant and Animal Genome meetings attended by livestock researchers and genomic technology companies worldwide.

For the International Society for Animal Genetics (ISAG), Dr. Rothschild started as an elected ISAG Executive Committee member in 2009. He has served actively in numerous standing committees including the major histocompatibility complex (MHC) and immune response workshops. He was also program chair, XXIII International Congress on Animal Genetics, Interlaken, Switzerland, 1992, and the XXIV International Congress on Animal Genetics, Prague, Czech Republic, 1994.

For most of his career, Dr. Rothschild has focused in swine genetics. For instance, Dr. Rothschild was one of the leaders of the swine genome sequencing project. In addition, a very important project for pig breeders worldwide was the Chinese Pig Importation Project for which Dr. Rothschild was an important leader and fund coordinator. Fortuitously this importation was completed in 1989 prior to political changes in China. Once these highly prolific pigs were here in the United States. Dr. Rothschild was a key researcher in defining a genetic allele for improved litter size.

Dr. Rothschild has been a major discoverer of causative mutations and genetic markers for complex traits in pigs, including the discovery of polymorphisms on genes such as the estrogen

receptor, prolactin receptor, leptin receptor, melanocortin-4 receptor, and many more. It has been estimated that Dr. Rothschild's discoveries positively impacted at least 75% of the US swine industry, helping to put the US swine industry in a major global position.

As the M. E. Ensminger Endowed Chair in International Animal Agriculture since 2007, Dr. Rothschild has been using his worldwide leading position in animal genetics to improve lives in rural Africa. In this new endeavor, Dr. Rothschild has been a key player in developing tools to estimate the weight in goats, in the discovery of genes associated with disease resistance and heat stress in indigenous African chickens, in the characterization of selection signatures in local African cattle, in efforts to increase efficiency of golden milk production in buffalo, and much more. Every year Dr. Rothschild visits rural areas of African countries, such as Uganda and Tanzania, to share his expertise in animal genetics, livestock production, and international agriculture to help the local population make use of their natural and rich animal genetic resources for selection of more efficient animals.

MAX F. ROTHSCHILD
C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences
M.E. Ensminger Chair in International Animal Agriculture
Co-Director, Global Food Security Consortium
Associate Director Livestock and Animal Health, Center for Sustainable Rural Livelihoods
Jefferson Science Fellow

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Iowa State University
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EDUCATION

University of California, Davis; B.S., Animal Science, background in genetics, 1974
University of Wisconsin, Madison; M.S., Animal Science, 1975
Cornell University, Ithaca, N.Y.; Ph.D., Animal Breeding, minors in Genetics, Statistics, 1978

EMPLOYMENT EXPERIENCE

2013 – present: Co-director, Global Food Security Consortium
2012- present: CF Curtiss Distinguished professor and ME Ensminger Chair
2011– 2012: Jefferson Science Fellow, USAID Bureau for Food Security
2008–present: Assoc Director for Livestock, Center for Sustainable Rural Livelihoods, Iowa State University
2007–present: M.E. Ensminger Endowed Chair in International Animal Agriculture, Iowa State University
2002–2012: Co-Director/Director, Center for Integrated Animal Genomics, Iowa State University
2001–2002: Visiting Scientist, Sygen International, Berkeley, California
1999–present: C.F. Curtiss Distinguished Professor in Agriculture and Life Sciences, ISU
1997–2001: Section Leader, Animal Breeding and Genetics, Dept. of Animal Science, Iowa State University.
1993–2013: USDA-CSRS National Swine Genome Coordinator (four 5 yr appointments).
1990–1994: Assistant Director, Agriculture Experiment Station (½ time).
1987–1999: Professor, Department of Animal Science, Iowa State University. Research has centered on genetic and genomics of livestock. Teaching in animal breeding and genetics.
1983–1987: Associate Professor, Dept. of Animal Science, Iowa State University.
1980–1983: Assistant Professor, Dept. of Animal Science, Iowa State University.
1978–1980: Assistant Professor, Dept. of Dairy Science, University of Maryland. Taught graduate and undergraduate courses in genetics and statistics. Research concerned health and reproductive disorders associated with selection for increased milk in dairy cows. Participated in a cooperative research program with USDA research center, Beltsville, MD.
1974-1975: Graduate research assistant, Department of Animal Science, University of Wisconsin.
1975-1978: Graduate research and teaching assistant, Department of Animal Science, Cornell University.

HONORS and AWARDS

Henry A Wallace Award, College of Agriculture and Life Sciences, Iowa State Univerity, 2018
Elected to the National Academy of Inventors, 2018
Award of Distinction, University of California Davis College of Agriculture and Environmental Studies, 2017
American Society of Animal Science Morrison Research Award, 2015
Illumina Great Good Initiative Award winner, 2014
Iowa State University Award for Achievement in Intellectual Property, 2013
USAID Meritorious Honor team award, 2013
College of Agriculture and Life Science Team Award, 2013
Federal Labs Consortium for Technology Transfer Excellence in Tech Transfer for iSNP Consortium, ARS, ISU. INRA, UIL, WU, 2011
Jefferson Science Fellow, 2011-2012 in DC, continues for 4 additional years
American Society of Agricultural Editors, Distinguished Service Award, 2009
American Society of Animal Science International Animal Agriculture Award, 2008
M.E.Ensminger Endowed Chair in Animal Agriculture, 2007
American Society of Animal Science Fellow Award, 2007
ISU Foundation Order of the Knoll Faculty Award 2007
Iowa State University International Service Award, 2007
College of Agriculture Faculty Award for Diversity Enhancement, 2006
NSIF Distinguished Service Award, 2005
Huazhong (Central China) Agricultural University Guest Professor, 2005-2008
ISU Research Foundation Award, 2003
Gamma Sigma Delta Research Award of Merit, 2003
College of Agriculture, Excellence in International Agriculture Award, 2003
Iowa Inventor of the Year, 2002
R&D 100 Award for PT1 (MC4R) gene discovery, 2002
A. B. Chapman lecturer, University of Wisconsin, May 2002
C. F. Curtiss Distinguished Professor in Agriculture, 1999
R&D 100 Award for LS1 (ESR) gene discovery, 1999
Fellow, American Association for the Advancement of Science, 1998
USDA Honor Team Award, 1997
American Society of Animal Science Animal Breeding and Genetics Award, 1995
Finalist, Lilly Young Animal Science Research Award, 1991
Midwestern Region American Society of Animal Science Young Researcher Award, 1990
Iowa State University Livestock Service Award presented by Walnut Grove Feeds, 1985
Allen Seymour Olmstead Graduate Fellowship, Cornell University, 1977-78
Honors at graduation, Dean's List, Departmental citation, Alpha Zeta Honorary Agriculture Society, University of California at Davis

AFFILIATIONS

Phi Sigma Pi Honorary Society
Gamma Sigma Delta Honorary Agriculture Society
American Society of Animal Science
American Dairy Science Association
International Mammalian Genome Society
American Association for the Advancement of Science

International Society for Animal Genetics

PROFESSIONAL EXPERIENCE

Co-professor in charge of swine breeding farm, Iowa State University, 1980-1998
National Center Genomic Resources, Scientific Board member 1998-2001
Northeastern University Center for Subsurface Imaging Systems, Scientific Board member, 1998-2001
AAAS Electorate Nominating Committee, 1999-2003
NRC Subcommittee on Food and Agriculture, 2001-2002
Reviewer, USDA, NCI, BARD, NSF, AKC and Canadian National Agriculture research grants
Reviewer, Journal of Animal Science, Animal Blood Groups and Biochemical Genetics, Livestock Production Science, Animal Genetics, Journal of Dairy Science, Journal of Reproductive Immunology, Theoretical and Applied Genetics and Genetique, Selection and Evolution, Genomics, Mammalian Genome, Can. J. Anim. Science, Genetics, Animal
Editorial Boards, Journal of Animal Science, 1982-84, 1996-98; Journal of Animal Biotechnology, 1989-present; Journal of Animal Breeding and Genetics, 1996-present; Journal of Brazilian Genetics, 1995-present; AgBio News and Information, 1997-present; Journal of Agriculture Genomics, 1998-2003
Program Advisory Board for Agricultural Biotechnology of CAB International, 1997-present
Animal Breeding Program Committee, Amer. Soc. Animal Science, 1982-84 (Chair, 1984)
Animal Breeding Award Committee, Amer. Soc. Animal Science, 1985-87
Long range planning committee, Iowa Purebred Swine Council, 1986
Animal Breeding Program Committee, Midwest Amer. Soc. Animal Science, 1988-1991, Chairman 1990-91
Consultant, World Pork Expo, 1988
ASAS Midwestern section, Young Scientist Award Committee, 1990-1991
Scientific Advisory Board, Biotechnology Research Development Corporation , 1992-1995
Program Chair, XXIII Int. Congress on Animal Genetics, Interlaken, Switzerland 1992
Chair, NC-210 "Mapping the Pig Genome" regional research project, 1992
Program Chair, XXIV Int. Congress on Animal Genetics, Prague, Czech Republic, 1994
Organizing Committee, Plant and Animal Genome meetings, 1995-present
American Society of Animal Science Contemporary Issues Committee Chair, 1994
Supervisor Committee, International Society of Animal Genetics, 2009- present
Organizing committee Plant and Animal Genome meetings 1995-present
Several other ASAS award committees

UNIVERSITY AND DEPARTMENTAL COMMITTEES

Junior Advisor, Departmental Block and Bridle Club, 1980-81
Advisor, Departmental Block and Bridle Club, 1981-82
Departmental Scholarship Committee, 1983-1991
Advisor/Asst. Advisor, Departmental Open House Display 1981-82, 1986-87
Departmental Club Liaison, 1982-84
Departmental Curriculum Committee, 1984
Chair, Departmental Seminar Committee, 1984
University Long-Range Planning Committee on Animal Facilities, 1987-1990
University Committee for ISU-VASKhNill (Soviet Agricultural Academy) 1988-1991
Admissions Committee. Immunobiology Program, 1986-87, 1989-1991

Chair, Organizing Committee, Int'l. Symposium on the Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species, 1987
College of Agriculture Biological Science Intellectual Property Study Committee, 1987-1989
Chair, Swine Research and Teaching Long Range Planning Committee, 1988
Scientific Leader, Chinese Pig Importation and Research Program, 1988-1994
College of Agriculture Honors Committee, 1989-1990
University Graduate Faculty Committee, 1987-1989
Leader, ISU committee to develop USDA Swine-Pork Center concept and plans, 1990-1993
Admissions Committee, Interdepartmental Genetics Program, 1991-1994, 1999
Leader, Minority Graduate Student Recruitment Program, College of Agriculture, 1993-1994
University Annuities and Insurance Committee, 1993-2000
Microbiology, Immunology, & Preventative Medicine faculty promotion committee, 1993-1994
ISU Athletic Council 1994
Minority Affairs Committee, College of Agriculture, 1995-2001
Departmental Seminar Committee, 1996-2002
Carver Academy Scholarship Program, 1999-2001
GMO Task Force, 1999-2001
University Presidential Selection Committee, 2000-2001
Presidential Initiative Review Committee, 2001
Principal Investigator, Integrated Animal Initiative Proposal Committee 2002
Co-organizer, Visions Conference, 2002-2003
College of Veterinary Medicine Dean Selection Committee, 2003-2004
Departmental Faculty Search committees, 2003-2004
President's Budget Advisory Committee, 2003-2004
Distinguished Professor Nomination Committee, University level, 2004-2006
Distinguished Professor Nomination committee, College of Agriculture, 2006-
University Selection committee, Provost, 2006
University Selection Committee, Vice President for Research and Economic development, 2008
Departmental Social and Communication Chair 2008-present

OTHER INTERNATIONAL AND NATIONAL EXPERIENCE

Global Food Security consortium, Co-Director 2013-present
Developed concept and helped recruit collaborators from international CGIAR centers, universities and other research locations. Working to devlop new international initiatives.

USAID, Bureau of Food Security, as Jefferson Science Fellow 2011–present.
General duties include infusion of science into policy and planning. Activities include:

- Leadership and development of international goat project
- Analysis of research portfolio of many USAID Feed the Future projects
- Analysis and participation in CRSP (Cooperative Research Support Programs) research efforts
- Development of additional University-USAID collaborative projects.

Associate Director for Livestock and Animal Health, Center for Sustainable Rural Livelihoods (CSRL), Iowa State University, 2008–present.

General duties include the development of livestock programs as part of the overall effort of CSRL in Uganda (http://www.srl.ag.iastate.edu). Activities include:

- Fundraising and grantsmanship for livestock purchases and animal health care personnel
- Management of livestock programs, training of farmers and extension workers, and work with local NGO in Uganda

International Research, Consulting, Teaching and Speaking Experience (selected from work in more than 60 countries over 37 years time)

Travel in over 60 countries worldwide over the course of 37 years for research, consulting, teaching and speaking regarding animal genetics and livestock management and improvement. Recent experience has been in international grant review and development, management, nutrition and animal genetics teaching and development work in Africa, Central America and Asia. Speak some French and Spanish.

- International shrimp research effort with CP Group, Indonesia, 2009–2015
    - M.E. Ensminger Endowed Chair in International Animal Agriculture at Iowa State University; responsibilities include organizing international conferences tailored to the needs of the host countries: Costa Rica (2008), which focused on animal production in tropical climates and had over 100 students, faculty, industry and lay people from nine countries attending (http://www.ans.iastate.edu/section/Ensminger/?pg=2008); Lleida, Spain (2010), which focused on issues facing production of food in a changing and demanding world (http://www.ans.iastate.edu/section/Ensminger/?pg=newschool); Beijing and Wuhan, China (2011), which focused on new opportunities and collaborations in animal science research. Other more recent schools have been Peru (http://www.ans.iastate.edu/extension/international-programs/ensminger-international-program/2014-ensminger-school) and Honduras (http://www.ans.iastate.edu/2016-ensminger-school). Other duties of the position have included facilitating more international activities among faculty and students in the Department of Animal Science.
- CSRL development activities (see above), including setting up a training program to train poor farmers, building livestock structures and developing feeding and marketing plans, with additional emphasis directed toward educating school children on how to raise livestock and improve nutrition, Uganda, 2005–present.
- International Livestock Research Institute talks and cooperative research, Kenya, 2005–2016
- Chair, Scientific advisory board, ILRI CRP 3.7 project 2011-2016.
- Cooperative research, France, 1996; Brazil 2001; Bulgaria, 2008–present
- Bill & Melinda Gates Foundation meeting dealing with issues related to Africa, Kenya, 2009.
- Scientific advisor, Nordic Agricultural Ministers meeting on animal genetics, Iceland, 2004
- Ensminger International Schools participant, Taiwan and Thailand, 2002; Hungary, 2003; Korea, 2004
- Swine genetics project development, China 2002
- Consultation and review of African Swine Fever research in South Africa for the International Atomic Energy Agency, 2000
- World Bank review team member for research stations in India, 1997
- Swine industry consulting, Korea 1997

- External PhD examiner for PhD candidate, Sweden, 1985, 1996
- ISU/USAID cooperative research project development, Russia, 1994
- EEC consultations, France and Belgium, 1991, 1993
- Chinese pig selection for sole U.S. importation, 1989
- NATO cooperative research grant with Dutch cooperator, 1987
- Swine genetics consulting, Cofolk Breeding Company, the Netherlands, 1985
- Sabbatical leave at INRA, Jouy-en-Josas, France for 6 months in 1985
- Pig production advice and consultation, East Germany and Poland, 1984
- Pig genetic testing schemes and station development, Korea, 1982, 1984
- Swine breeding instruction and pig production consulting activities, China, 1982

Co-Director/Director, Center for Integrated Animal Genomics, Iowa State University, 2002–2012
General duties have included the development of a new research center at the university (www.ciag.iastate.edu) and a program that has built and strengthened new relationships and collaborations among non-plant genomics researchers. My role as director has included:

- Development of on-campus grants program and activities in support of genomics on campus;
- Budget development and team grant writing to support center activities;
- Economic development activities work though the Iowa Biosciences Alliance Initiative in the State of Iowa;
- Communication with laypeople, state officers and elected officials on the role of genomics in modern agriculture and in economic development.

USDA Pig Genome Coordinator and International Pig Genome Project member, 1993–2012
USDA Pig Genome Coordinator initially selected and reappointed every 5 years through a competitive process in CSREES (now NIFA). Selected activities include (for a full range of activities see http://www.genome.iastate.edu/pigs/):

- Facilitation of pig genomics research throughout the U.S. and in cooperation with other scientists around the world;
- Initiation of the publication of a bimonthly newsletter for interested scientists;
- Running an online "discussion group" on animal genomics;
- Writing review articles for scientific journals;
- Engaging in interviews for the general public;
- Participating as a senior member of the International Swine Genome Sequencing committee, which directed fundraising and research efforts to sequence the pig genome and explain the activities to scientists, government officials and the lay public.

Assistant Director, Iowa Agriculture Experiment Station, 1990–1994 (half-time appointment).
General duties in assisting the Director and Associate Director as needed were wide ranging and included developing policy matters, participating in budget hearings and decisions, interviewing new faculty, assisting in legislative matters, arranging meetings with agriculture industry personnel, welcoming visitor groups to the College of Agriculture, and fundraising. Specific programs within the Experiment Station included:

- Managing the Agricultural Exper. Station innovative research/equipment grants programs;
- Managing the review process for Agricultural Experiment Station projects;
- Being administrative advisor for five North Central Regional Research Projects (NC-111, NC-113, NC-209, NCR-21, NCR-170);

- Development of prospective federal/state projects for the university;
- Development of a visiting scientist program;
- Minority recruitment and interactions with the 1890s institutions;
- Helping in the development of a USDA/ARS National Pig Research Center at Iowa State University, which included co-authoring the original center plan, visiting with industry and political leaders to help gain support, assisting USDA planning teams in developing the site for the facility and serving on industry and USDA committees in the planning process.

Other Significant Administrative Duties at Iowa State University

- Led initial U.S. importation and multiplication efforts of Chinese pigs at Iowa State University;
- Was co-leader/supervisor for the Iowa State University swine breeding farm staff and operations;
- Served as Section Leader, Animal Breeding and Genetics group (leading 16 faculty), 1997–2001.

- **GRANTS RECEIVED**

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Dopamine and the Porcine Stress Syndrome (D. Beitz, D. Draper, M.F. Rothschild, L. Christian)	University Research Grant	4,800	1980	1981
Economic Value of Purchasing Superior Germ Plasma (M.F. Rothschild, L. Christian)	International Boar Semen	1,500	1980	1982
Relationship Between SLA Gene Complex and Resistance to Atrophic Rhinitis (M.F. Rothschild, C. Warner, L. Christian)	USDA	85,894	1982	1985
Parkinson's Disease and the Stress Susceptible Pig (D. Beitz, D. Draper, L. Christian, M.F. Rothschild, R. Pfieffer)	American Parkinson's Disease Association	19,400	1982	1983
Relationship Between Swine MHC and Immune Response to Atrophic Rhinitis Vaccine (M.F. Rothschild, C. Warner, L. Christian)	NPPC	9,000	1982	1983
*People's Republic of China Travel/Crossbreeding Research (M.F. Rothschild)	ISU Travel Grant	1,123	1982	1982
*People's Republic of China Travel/Crossbreeding Research (M.F. Rothschild)	Renco Corporation	300	1982	1982
*People's Republic of China Travel/Crossbreeding Research (M.F. Rothschild)	IPPA	1,000	1982	1982
Relationship Between the Swine MHC Gene Complex and Immune Response to Atrophic Rhinitis Vaccine (M.F. Rothschild, L. Christian, C. Warner)	University Research Grant	6,240	1982	1983
Relationship Between the Swine MHC and Immune Response to Atrophic Rhinitis Vaccine (M.F. Rothschild, C. Warner, L. Christian, H. Hill)	NPPC	8,500	1983	1984
DNA Typing Biotechnology for Improved Reproduction in the Pig (C. Warner, M.F. Rothschild)	Iowa High Technology Council	36,835	1984	1985
Role of the SLA Complex in Pig Development and Reproduction (C. Warner, M.F. Rothschild, S. Ford)	USDA Biotechnology Research Grant	143,400	1985	1987
Mitochondrial Energy Metabolism in Mammary Glands with Differing Milk Production Potentials (D. Beitz, A.E. Freeman, M.F. Rothschild, J.W. Young)	National Association of Animal Breeders	7,500	1985	1986
Faculty Improvement Leave/EEAP (M.F. Rothschild)	IPPA	500	1985	1986
Faculty Improvement Leave/France (M.F. Rothschild)	ISU Travel Grant	750	1985	1986

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
DNA Typing Biotechnology for Improved Reproduction in the Pig (C. Warner, M.F. Rothschild)	Iowa High Technology Council	35,000	1985	1986
Genetic Improvement of Disease Resistance and Reproductive Efficiency in Pigs and Chickens (C. Warner, M.F. Rothschild, S. Ford, S.J. Lamont)	Agricultural Biotechnology	160,000	1986	1988
	Training Grant	20,850		
Relationship of Muscle Characteristics to Leg Weakness in Swine (M.F. Rothschild, D. Draper, L. Christian)	University Research Grant/ ISU Achievement Foundation	2,046	1986	1987
Mitochondrial Genotype Differences in Mammary Glands with Differing Milk Production Potentials (D. Beitz, A.E. Freeman, M.F. Rothschild, J.W. Young)	National Association of Animal Breeders	3,750	1986	1987
Relationship of Leg Weakness to Osteochondrosis in Swine (M.F. Rothschild, S.A. Goedegebuure, R.F. Ross, L. Christian)	NATO Intern Research Grant	6,264	1986	1987
	Iowa Purebred Swine Council	500		
	National Assoc. of Swine Records	500		
Symposium: Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species (C. Warner, M.F. Rothschild, S.J. Lamont)	USDA, NADC, ISU, & Industry Groups	43,000	1987	1987
Swine Histocompatibility Antigens and Their Association with Health and Production (M.F. Rothschild, C. Warner)	NPPC	13,000	1988	1989
Role of the SLA Complex in Pig Development and Reproduction (C. Warner, M.F. Rothschild, S.P. Ford)	USDA	160,000	1988	1991
Chinese Pig Semen Collection and Freezing (L. Evans, S. Hopkins, M.F. Rothschild)	ISU Biotech Council	17,500	1989	1990
Swine Major Histocompatibility Genes: Polymorphisms in Chinese Pigs and Associations with Disease, Reproductive and Growth Traits (M.F. Rothschild)	IPPA	12,000	1989	1990
Effect of PST on Leg Structure and Osteochondrosis in Swine Which Differ Genetically in Their Leg Soundness (M.F. Rothschild)	Pitman-Moore	22,440	1989	1990
Swine Consist Study (M.F. Rothschild)	NPPC	9,000	1989	1990

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Development of Management Systems for Efficient and Competitive Swine Production (J. Kliebenstein, D. Bundy, M.F. Rothschild, D. Zimmerman)	NPPC	13,800	1989	1990
Functional Development of the Intestinal Tract of Neonate Chinese Crossbred Pigs (J. Sell, M.F. Rothschild, D. Zimmerman)	NPPC	13,800	1989	1990
Chinese Pig Importation Project (M.F. Rothschild, L. Christain, S.A. Ewing)	Biotechnology Funds, PPA, & Industry Funds	400,000	1989	1989
Localization and Comparison of Appetite Factors Within the Brains of Chinese and Duroc Pigs (C. Jacobson, M.F. Rothschild)	IPPA	3,800	1990	1991
Travel Grant for 4th World Congress on Genetics Applied to Livestock Production (M.F. Rothschild)	ISU	750	1990	1990
Identification of Novel Genes Linked to the Swine MHC Which Control Disease Resistance and Reproduction (M.F. Rothschild)	NPPC PIC IPPA	13,500 2,000 7,000	1990	1991
Role of POU Domain Genes in Swine Growth and Development (C.K. Tuggle M.F. Rothschild)	USDA	195,000	1991	1994
Molecular Analysis of Pig Chromosome 7 with Emphasis on the SLA Complex (C.M. Warner, M.F. Rothschild)	USDA	200,000	1991	1994
Identification and Cloning the Master Control Genes Involved in Regulating Swine Growth and Reproduction (C. Tuggle, M.F. Rothschild)	IPPA	15,000	1991	1992
Identification and Cloning the Master Control Genes Involved in Regulating Swine Growth and Reproduction (C. Tuggle, M.F. Rothschild)	NPPC	14,400	1991	1992
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild, C. Tuggle, C. Jacobson)	IPPA	15,000	1991	1992
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild, C. Tuggle, C. Jacobson)	BRDC	44,145	1992	1993
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSRS	103,000	1993	1994
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSRS	74,000	1993	1993
Genetic Basis for Disease Resistance to PRRSV Associated Disease (P. Paul, M.F. Rothschild)	IPPA	15,000	1993	1994
Molecular Genetic Markers for Growth and Carcass Traits in Pigs (M.F. Rothschild, C. Tuggle, L. Christian)	IPPA	15,000	1993	1994

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild, C. Tuggle, C. Jacobson)	BRDC	64,138	1993	1994
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild, C. Tuggle, C. Jacobson)	BRDC	110,597	1994	1996
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSRS	102,000	1994	1995
Travel Grant to Russia and Ukraine (C. Tuggle, M.F. Rothschild, D. Marple)	USDA-OICD-RSED	5,000	1994	1994
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild, C. Tuggle, C. Jacobson)	BRDC	48,000	1994	1994
Microsatellite Marker Project for Gene Mapping (M.F. Rothschild)	Various Companies	24,000	1994	1995
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSRS	98,500	1995	1996
Mapping Expressed Genes in the Pig Using Comparative Anchor Loci Sequences (C. Tuggle; M.F. Rothschild)	USDA	250,000	1995	1998
Development of a Resource Family for Meat Quality Traits in the Pig (M.F. Rothschild, L. Christian, T. Baas)	NPPC	12,000	1995	1996
Pinpointing Molecular Genetic Markers for Growth and Carcass Traits in the Pig (M.F. Rothschild, C. Tuggle)	NPPC	16,000	1995	1996
Association of Candidate Genes With Economically Important Growth, Meat Quality and Carcass Traits (C. Tuggle, M.F. Rothschild)	NPPC	16,000	1995	1996
Identification of New Genes Which Control Ovulation, Embryo Survival and Mothering Ability in the Pig (M.F. Rothschild, C. Tuggle)	PIC/Dalgety FTC	35,202	1995	1996
USDA National Needs Graduate Fellowship Program in Animal Biotechnology (C. Tuggle, S.J. Carpenter-Faculty Team Member; M.F. Rothschild)	USDA	107,000	1996	1998
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSRS	98,500	1996	1997
Identification of New Genes Which Control Ovulation, Embryo Survival and Mothering Ability in the Pig (M.F. Rothschild; C. Tuggle)	PIC/Dalgety FTC	47,000	1996	1997
Identification of AMPPN Polymorphisms: What Role Does Genetics Play in Resistance to TGE Virus Infection in Pigs (M.F. Rothschild; P. Kapke)	Carver	19,100	1996	1997

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Validation of a Gene Marker for Litter Size in Pigs (M.F. Rothschild; C. Tuggle)	BRDC	44,000	1996	1996
Pig Genome Database (M.F. Rothschild)	USDA	25,000	1997	1997
CSRS Swine Genome Coordinator (M.F. Rothschild, C. Tuggle, P. Spike, L. Christian)	USDA/CSREES	98,500	1997	1998
Biological Significance of the Hingeless Allelic Variant of Porcine IgA (J. Butler, M.F. Rothschild)	NRI-USDA (subcontract U of I)	34,977	1997	2000
Analysis of Candidate Genes for Resistance to Salmonella in the Pig (C. Tuggle, S. Sun, M.F. Rothschild)	PIC	20,901	1997	1998
Candidate Gene Analysis for Economically Important Traits in the Pig (M.F. Rothschild, C. Tuggle)	PIC	47,208	1997	1998
Evaluation of Genetic Susceptibility to PRRS Virus (E. Thacker, P. Halbur, B. Thacker, M.F. Rothschild)	BRDC	60,000	1997	1998
A Molecular Genomic Scan Analysis to Identify Genes Influencing Muscle Quality in the Pig (M.F. Rothschild, L. Christian, T. Baas, and R. Fernando)	NPPC	255,000	1997	1999
Initial Studies in Identifying a Genetic Basis for Controlling TGE Virus Infections (M.F. Rothschild)	BRDC	38,268	1997	1997
Validate of a Gene Marker for Litter Size in Pigs Characterization of Greater Variability (M.F. Rothschild; C. Tuggle)	BRDC	55,298	1997	1997
Identification of Genes Affecting Meat Quality in the Pig (M.F. Rothschild, C. Tuggle, D. Beitz, R. Robson, T. Huiatt)	PIC	240,000	1998	2000
Optimizing Selection on Major Genes (J. Dekkers, R. Fernando, M.F. Rothschild)	USDA, NRI	125,000	1998	2000
ISU Travel Grants (Australia/New Zealand) (M.F. Rothschild and colleagues)	ISU	5,000	1998	1998
Optimizing Selection on Major Genes (J. Dekkers, M.F. Rothschild)	NPPC	16,800	1998	1999
CSRS Swine Genome Coordinator (M.F. Rothschild)	USDA	120,000	1998	1999
Initial Studies in Identifying a Genetic Basis for Controlling TGE Virus Infections (M.F. Rothschild)	BRDC	51,000	1998	1998
USDA Biotech Fellowship (R. Fernando, J. Dekkers, M.F. Rothschild, S.J. Lamont)	USDA	108,000	1998	2001
Identification of Genes Associated with Meat Quality (M.F. Rothschild)	PIC	240,000	2000	2002

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Evaluation of Genetic Susceptibility to PRRS Virus (E. Thacker, P. Halbur, M.F. Rothschild)	BRDC	22,958	1999	2000
Visiting Scientist Program (M.F. Rothschild, J. Dekkers)	Cotswold	30,000	1999	2000
Optimizing Strategies for Selection on Multiple Genes and Markers in Swine Breeding Programs (J. Dekkers, R. Fernando, and M.F. Rothschild)	PIC	155,802	1999	2002
Promag Grant (C. K. Tuggle, M.F. Rothschild)	ISU	41,700	1999	1999
Development of Resources for Functional Pig Genomics (C. Tuggle, M.F. Rothschild, D. Pomp, B. Soares, R. Prather)	USDA	700,000	1999	2001
CSREES Swine Genome Coordinator (M.F. Rothschild)	USDA	120,000	1999	2000
Initial Studies in Identifying a Genetic Basis for TGE Virus Infections (M.F. Rothschild)	BRDC	24,000	1999	2000
Identification of Molecular Markers for Carcass and Meat Quality Traits (J. Reecy, D. Wilson, M.F. Rothschild)	American Angus Association	15,000	1999	2000
Evaluation of Genetic Susceptibility to PRRS Virus (E. Thacker, P. Halbur, M. R. Rothschild)	BRDC	90,000	1999	2000
USDA National Needs Graduate Fellowship in Animal Biotechnology (C. Tuggle, S.J. Carpenter PIs, M.F. Rothschild, faculty member)	USDA	200,000	2000	2002
ISU Travel Grant to Brazil	College of Agriculture	1,500	2000	2000
Visiting Scientist Program	Cotswold Genetics	15,000	2001	2001
CSREES Swine Genome Coordinator (M.F. Rothschild)	USDA	120,000	2000	2001
Mapping and Use of QTL For Marker-Assisted Improvement of Meat Quality in Pigs (J. Dekkers, M. Rothschild, R. Fernando, ISU; S. Rodriquez, ZASS; J. Beaver, University of Illinois)	USDA	587,722	2000	2003
CSREES Swine Genome Coordinator (M.F. Rothschild)	USDA	120,000	2001	2002
CSREES Swine Genome Coordinator (M.F. Rothschild)	USDA	120,000	2002	2003
Identification of Genes Associated with Meat Quality and Disease Susceptibility (M.F. Rothschild)	PIC/Sygen	120,000	2002	2003

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Identification of Genes Associated with Meat Quality and Disease Susceptibility (M.F. Rothschild)	PIC/Sygen	120,000	2003	2004
Use of Comparative Genomics to Increase Sow Longevity (M.F. Rothschild, M. Nielson-Hamilton	ISU-CIAG	15,700	2003	2004
Transcriptional Profiling to Accelerate Functional Genomics in the Pig (C. Tuggle, D. Nettleton, M.F. Rothschild	ISU-CIAG	$22,195	2003	2004
CSREES Swine Genome Coordinator (M.F. Rothschild)	USDA	47,500	2003	2004
Genetic Susceptibility to Cranial Cruciate ligament disorder in Newfoundland dogs (M.F. Rothschild, M. Conzemius)	ISU SPRIG	15,750	2003	2004
Genetic Susceptibility to Cranial Cruciate Ligament Disorder in Newfoundland Dogs (M.F. Rothschild, M. Conzemius)	AKC Canine Health Foundation	96,392	2004	2006
CSREES Bioinformatics Coordinator (J. Reecy, S.J. Lamont, M.F. Rothschild, C Tuggle)	USDA	122,000	2003	2004
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	47,500	2004	2005
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	97,000	2004	2005
Development and characterization of the ninth generation of a pig resource population for fine mapping of quantitative trait loci (Rothschild MF, Lonergan S, Lonergan E, Dekkers J)	CIAG/College of Agriculture	10,000	2005	2005
Identification of genes underlying quantitative trait loci (QTL) for traits of economic importance in pigs (M.F. Rothschild)	CIAG/College of Agriculture	19,856	2005	2005
Identification of Genes Associated with Meat Quality and Disease Susceptibility (M.F. Rothschild)	PIC/Sygen	160,000	2004	2005
Swine genome sequencing (M/F. Rothschild)	Vice provost College of Agriculture Iowa Pork Producers	300,000	2005	2006
Discovery and Validation of genetic markers affecting sow longevity (M.F. Rothschild, K. Stalder)	National Pork Board	$60,000	2005	2005

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Association of compositional, structural soundness, and health with the ability of a commercial line of young sows to successfully complete parity one. (K. J. Stalder, L. Karriker, M. F. Rothschild, T. J. Baas, J. W. Mabry, and J. D. McKean)	National Pork Board	$125,000	2005	2006
Continued selection for rapid growth: Implications for pork quality (S. Lonergan,E. Huff-Lonergan, M. Rothschild A. Sosnicki)	National Pork Board	$90,412	2005	2006
Identification of Genes Associated with Meat Quality and Disease Susceptibility (M.F. Rothschild)	PIC/Sygen	120,000	2005	2006
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	47,500	2005	2006
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	97,000	2005	2006
Genetic pathways to environmentally friendly pigs (C. Stahl, M. F. Rothschild)	BRDC	$60,000	2005	2006
Identification of genes underlying quantitative trait loci (QTL) for traits of economic importance in pigs (M.F. Rothschild)	CIAG/ College of Agriculture	21,500	2006	2006
Investigations on breed-dependent differences in susceptibility to PCV2. (Opriessnig T, Halbur PG, Rothschild M.)	IPPA	$49.893	2006	2007
Uganda Animal Breeding and Production Project (M.F. Rothschild, J. M. Reecy)	ISU,CIP	$5,000	2006	2006
Determination of the White Spotting gene in dogs (M.F. Rothschild and M. Ellinwood)	AKC Canine Health	$12,900	2006	2006
Porcine Genome Sequencing Project, (L. Schook, J. Beaver, D. Milan, C. Beattie, M. Rothschild, K. Eversole)	USDA, CSREES #05-05213	$10,000,000	2005	2007
REU Site in Molecular Biotechnology and Genomics(MF. Rothschild and D. Oliver)	NSF	$460,269	2006	2010

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Development of Large Animal Models for Human Health, (MF Rothschild, M. Ellinwood, M. Spurlock, G. McLenen)	Iowa dept. Econ Dev-BAI	$100,000	2006	2008
Association of genetic markers with structural soundness and sow longevity (M Rothschild, K Stalder)	National Pork Board	$86,000	2006	2007
Identifying genes associated with health and longevity in pigs (M Rothschild)	Monsanto	$200,000	2006	2008
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	50,000	2006	2007
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2006	2007
Compositional Traits and Structural Soundness with the Ability of Commercial Line of Sows to Complete Parities Two and Three (K Stalder, M Rothschild, T Baas, J Mabry, L Karriker and J McKean)	National Pork Board	$104,510	2006	2008
Training in the development and application of quantitative methods and tools for animal genomics (Dekkers, Fernando, Nettleton, Rothschild)	USDA training grant	$252,000	2007	2009
Conference:Epistasis: Predicting Phenotypes and Evolutionary Trajectories May 31 – June 3, 2007 (Rothschild)	USDA	$10,000	2007	2007
Large Animal Genomics Models for Animal and Human Health, (MF Rothschild, M. Ellinwood, M. Spurlock,)	Iowa dept. Econ Dev-BAI/Regents	$540,000	2006	2010
The book of life lecture series (B. Daly, MF Rothschild, A.Bix)	Humanities Iowa	$18,300	2006	2007
Genetic pathways to environmentally friendly pigs (C. Stahl, M. F. Rothschild)	BRDC	$131,000	2006	2007
Investigation on Breed Dependent Differences in Susceptibility to PVC2 (T. Opriessnig, P. Halbur, MF Rothschild	IPPA	$49,893	2006	2007
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	50,000	2007	2008

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	100,000	2007	2008
Comparative Genome analysis of Cryptorchidism in dogs (MF Rothschild)	AKC Canine Health	$12,960	2007	2008
Development of a Shrimp Gene Map in Pacific White Shrimp (MF Rothschild)	Golden Dragon Research/CP Indonnesia	$193,636	2008	2008
Association of genetic markers with structural soundness and its relationship to gilt development and sow longevity (MF Rothschild, K Stalder)	National Pork Board	$118,169	2008	2009
Large-scale Association Analyses of Candidate Genes for Feed Efficiency Traits in Pigs (MF Rothschild, J Dekkers)	National Pork Board	$120,253	2008	2009
"Large scale SNP association analyses of feed efficiency and longevity (MF Rothschild, K Stalder, J Dekkers)	National Pork Board	$100,000	2008	2009
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	60,000	2008	2009
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2008	2009
SNP chip analysis of Cryptorchidism in dogs (MF Rothschild)	AKC Canine Health	$12,960	2009	2010
Whole genome analysis of Cryptorchidism in dogs (MF Rothschild)	AKC Canine Health	$74,104	2009	2010
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	60,000	2009	2010
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2009	2010
Identification of Genetic Markers for the Improvement of Growth and Disease-Resistance in Pacific White Shrimp MF Rothschild	Gold Dragon research	$183,000	2009	2011
Identification of Genetic Drug Targets for Residual Feed Intake (M.F. Rothschild, J Dekkers)	Pfizer Animal health	$265,838	2010	2012
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2010	2011

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	60,000	2010	2011
Bridging the Gap: Increasing the Competiveness of Ugandan Women Farmers in the Marketplace, M. Holz-Clauz, M Rothschild, M Westgate	USAID	$100,000	2010	2011
Genomics for Resistance to Disease in Animals: An Integrated Educational Approach, S J Lamont, S Carpenter, M Rothschild, C Tuggle	USDA training grant	$258,000	2011	2013
Development of Genome Enhanced EBV's for the SOW Feed intake and efficiency (S Kemp Universiy of Alberta and M.F. Rothschild	Genome Alberta	$456,300 ISU portion $106,000	2011	2013
Research Experiences for Undergraduates in Agricultural Biotechnology and Genomics (K Wang and M Rothschild)	NSF	$299,304	2011	2013
Adapting Chicken Production to Climate Change Through Breeding C. Schmidt, SJ Lamont, M F Rothschild, M Persia	USDA NIFA	$4.79M ISU $1.7M	2011	2015
Development of Genome Enhanced EBV's for the SOW Feed intake and efficiency (S Kemp Universiy of Alberta and M.F. Rothschild	Genome Alberta	$456,300 ISU portion $106,000	2011	2013
Improving nutrient utilization and feed efficiency through research and extension to enhance pig industry sustainability and competitiveness, J. Patience, N Gabbler, C Tuggle, J Dekkers, A Johnson, J Mabry, M F Rothschild, other PIs at other institutions	USDA NIFA	$4.79 M ISU $3.6M	2011	2015
A Validation Study of Whole Genome Association Analyses for Canine Cryptorchidism in Siberian Huskies (MF Rothschild)	AKC Canine Health	$12,960	2011	2012
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2011	2012
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	60,000	2011	2012
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2012	2013
CSREES Swine Genome Coordinator (M. F. Rothschild	USDA	60,000	2012	2013

Title (PI, Co-PI's)	Source	Amount	Year Received	Year Terminated
Validation of genetic markers for IMNV resistance in Pacific White Shrimp.	Golden Dragon	134,683	2012	2013
Improving the Efficiency of Livestock Production Using Genetic Selection (D. Spurlock; M Rothschild and D. Garrick	USDA Training grant	230,000	2013	2015
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2013	2014
Investigation into the Genetic Basis of Inflammatory Bowel Disease in the German Shepherd Dog Using Genome-Wide Association Stud (Allenspach, K, A. Jergens, M.F. Rothschild	AKC Canine	119, 268	2013	2015
Global Food Seccurity Consortium (M.Misra and M.F. Rothschild	ISU	1,140,000	2013	2016
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	110,000	2014	2015
Illumina Greater Good – genomics of heat stress in sheep and goats (M. Rothschild, A Elbeltagy)	Illumina	$90,000	2014	2-14
Genetic control of heat stress in pigs (M. Rothschild, L. Baumgard, A. Keating, J. Ross)	Smithfield/ISU extension	$23,000	2014	2014
Enhanced molecular diagnostics and validating genetic resistance to PEDV in pigs (J. Sorenson, J. Alexanderson, G. Plastow, B. Mote and M. Rothschild)	Genome Canada	$360,000	2015	2017
Genetic control of PEDV (M. Rothschild, G. Plastow, D. Ciobanu, B.Mote, J. Harding)	US Pig Genome Coodination	$20,000	2014	2015
CSREES Bioinformatics coordinator (J. Reecy, SJ, Lamont, M. F. Rothschild,C Tuggle)	USDA	$140,000	2015	2016
Golden Milk – improved Vitamin A content in milk (M. Rothschild	Bill and Melinda Gates Foundation	$498,000	2015	2017

COURSES TAUGHT

Term	Course	# Students	Credits/ Hours
Fall, 1980	Applied Animal Breeding, AnS 351	56	3
Winter, 1981	Applied Animal Breeding, AnS 351	68	3
Spring, 1981	Applied Animal Breeding, AnS 351	90	3
Summer, 1981	Applied Animal Breeding, AnS 351	33	3
Fall, 1981	Livestock Improvement Through Animal Breeding, AnS 352	61	4
Spring, 1982	Livestock Improvement Through Animal Breeding, AnS 352	40	4
Spring, 1982	Designing Breeding Programs for Livestock, AnS 353	27	3
Fall, 1982	Livestock Improvement Through Animal Breeding, AnS 352	52	4
Spring, 1983	Designing Breeding Programs for Livestock, AnS 353	23	2
Spring, 1984	Designing Breeding Programs for Livestock, AnS 353	15	2
Summer, 1984	Livestock Improvement Through Animal Breeding, AnS 352	10	4
Fall, 1984	Statistical Applications in Animal Breeding, AnS 682X	6	1
Spring, 1985	Designing Breeding Programs for Livestock, AnS 353	19	2
Spring, 1986	Designing Breeding Programs for Livestock, AnS 353	7	3
Fall, 1986	Statistical Applications in Animal Breeding, AnS 682X	9	2
Spring, 1987	Designing Breeding Programs for Livestock, AnS 353	10	3
Spring, 1987	Livestock Improvement Through Animal Breeding, AnS 352	47	4
Spring, 1988	Livestock Improvement Through Animal Breeding, AnS 352a – TV Presentation Format	59	2
Fall, 1988	Statistical Applications in Animal Breeding, AnS 682X	8	2
Fall, 1988	Livestock Improvement Through Animal Breeding, AnS 352b – TV Presentation Format	21	2
Spring, 1989	Designing Breeding Programs for Livestock, AnS 353	7	3

Term	Course	# Students	Credits/ Hours
Spring, 1990	Designing Breeding Programs for Livestock, AnS 353	7	2
Spring, 1990	Companion Animal Science, AnS 224X – Genetics Lectures Only	32	2
Spring, 1991	Companion Animal Science, AnS 224X – Genetics Lectures Only	36	2
Spring, 1991	Genetic Regulation of Livestock Immunology, AnS 540, Guest Lecturer	8	2
Fall, 1991	Applied Poultry and Swine Breeding, AnS 653 – 2 Guest Lectures	7	2
Fall, 1991	Animal Biotechnology, AnS 451X – Guest Lecturer	12	3
Fall, 1992	Animal Biotechnology, AnS 451X – Guest Lecturer	8	3
Spring, 1992	Companion Animal Science, AnS 224X – Genetics Lectures Only	21	3
Spring, 1993	Companion Animal Science, AnS 224X – Genetics Lectures Only	24	3
Fall, 1993	Applied Poultry and Swine Breeding, AnS 653 – 2 Guest Lectures	7	2
Spring, 1994	Companion Animal Science, AnS 224X – Genetics Lectures Only	27	3
Spring, 1995	Companion Animal Science, AnS 224X – Genetics Lectures Only	33	3
Spring, 1995	Population Genetics, AnS 550 – Taught for 3 Weeks	6	3
Fall, 1995	Honors Symposium: Contemporary Challenges in Animal Agriculture	12	1
Fall, 1995	Applied Poultry and Swine Breeding, AnS 653 (.5 Course)	8	2
Spring, 1996	Companion Animal Science, AnS 224X – Genetics Lectures Only	40	3
Spring, 1996	Genetics 591, Shared Workshop Duties	45	1
Spring, 1997	Companion Animal Science, AnS 224X – Genetics Lectures Only	40	3
Spring, 1997	Animal Breeding Seminar, AnS 658X	15	1
Fall, 1997	Applied Poultry and Swine Breeding, AnS 653	6	2

Term	Course	# Students	Credits/ Hours
Spring, 1998	Companion Animal Science, AnS 224 – Genetics Lectures Only	40	3
Spring, 1999	Companion Animal Science, AnS 224 – Genetics Lectures Only	40	3
Spring, 1999	Designing Breeding Programs for Livestock, AnS 353	4	2
Fall, 1999	Issues in Animal Science, AnS 411	40	1
Spring, 2000	Companion Animal Science, AnS 224 – Genetics Lectures Only	35	3
Spring, 2000	Designing Breeding Programs for Livestock, AnS 353		
Spring, 2000	Current Topics in Genome Research, AnS 556 – Several Lectures	3	7
Fall, 2000	Animal Breeding & Genetics Seminar, AnS 658X	30	1
Spring 2001-present	Guest lecture Ans 501	20	1
Fall 2004	AnS 411 Ethics in Animal Agriculture	56	1
Fall 2008	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2009	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2008	Animal Breeding and Genetics Seminar	>50	1
Spring 2008	AnS 452X Animal and veterinary genetics (shared teaching)	6	3
Spring 2009	AnS 452X Animal and veterinary genetics (shared teaching)	6	3
Fall 2010	Feeding the World: Are we making progress, College wide seminar	>50	0
Fall 2012	Feeding the World: Are we making progress, College wide seminar	>50	0
Spring 2013	AnS 441X International Animal Science	16	3
Fall 2013	Feeding the World: Are we making progress, College wide seminar	36	1

Term	Course	# Students	Credits/ Hours
Spring 2014	AnS 441X International Animal Science	18	3
Fall 2014	Feeding the World: Are we making progress, College wide seminar	33	1
Spring 2015	AnS 441 International Animal Science	29	3
Fall 2015	AnS 658 Animal Breeding seminar	20	1
Fall 2015	Feeding the World: Are we making progress, College wide seminar	29	1
Spring 2016	AnS 441 International Animal Science	22	3
Fall 2016	Feeding the World: Are we making progress, College wide seminar	32	1
Spring 2017	AnS 441 International Animal Science	16	3
Fall 2017	Feeding the World: Are we making progress, College wide seminar	33	1
Fall 2018	Feeding the World: Are we making progress, College wide seminar	34	1

GRADUATE STUDENTS, POSTDOCTORAL ASSOCIATES AND VISITING SCIENTISTS

Degrees granted as major or co-major professor: 18 M.S. students and 13 Ph.D. students, served on over 65 graduate committees for students in animal breeding, immunobiology, animal ecology and 20 Postdoctoral Associates and 12 Visiting Scientists.
Faculty member in the graduate programs in Animal Science, Interdepartmental Genetics and in Microbiology, Immunobiology and Preventative Medicine

Graduate Students	Degree	Year Completed	Current Position
Hagenow, Rebecca	M.S.	1982	Swine genetics professional, PIC, TN
DeCarrillo, Irma	M.S.	1983	College professor, Venezuela
Chen, Hsiao-Li	M.S.	1983	Computer programmer, California
Lawrisuk, Lois	M.S.	1985	Veterinarian, Illinois
Reyes, Gustavo	M.S.	1985	College professor, Colombia, S.A.
Shanks, Bart	M.S.	1985	Farmer, Iowa
Li, Jewen	M.S.	1985	Molecular biologist, U. of Missouri
Meeker, David	Ph.D.	1985	VP Research, Natl. Renders Association, Washington DC
Kim, Chung Dae	M.S.	1987	Poultry geneticist, Korea
Jung, Young Chul	M.S.	1985	President, Swine genetics company, Korea
	Ph.D.	1987	
Lie, Wen Rong	Ph.D.	1987	Molecular biologist, Monsanto, Missouri
Ernst, Cathy W	M.S.	1988	Associate professor, MSU
Boggess, Mark	Ph.D.	1990	National Pork Board
Xu, Yuanxin	Ph.D.	1990	Molecular biologist, Transplantation Co., Mass.
Hsieh, Chao-Ying	M.S.	1991	Laboratory technician, Taiwan
Yu, Tun Ping	M.S.	1993	Researcher, Sygen Int.
	Ph.D.	1998	
Liu, Hsaio-Ching	M.S.	1994	Assistant Professor, N. Carolina State University
Messer, Lori	M.S.	1996	Lab manager and IT, Monsanto Corp
Vincent, Amy	M.S.	1997	Veterinarian, Staff Researcher, VMRI
Michaels, Rita	Ph.D.	1998	Swine geneticist/consultant, CN
Kemba Kelly	M.S.	1999	Research Assistant, University of Chicago
Kim, Kwan Suk	M.S.	1999	Assistant Professor, Korea
	Ph.D.	2003	
Jill Sherwood	M.S.	2001	Graduate Student, ISU
Massoud Malek	Ph.D.	2001	Post doctoral researcher, Switzerland
Laura Grapes	Ph.D.	2004	Monsanto Choice Genetics
Benny Mote	Ph.D.	2008	Geneticist, Fast Genetics
Marcos Ramos	Ph.D.	2006	Postdoctoral researcher, Wagnigen University, Netherlands
Vickie Wilkie	Ph.D.	2006	Assistant professor, University of Minnesota
Zhao, Xia	MS	2009	Graduate student
Gorbach (Bowen), Daniel	Ph.D.	2011	Swine Geneticist, Nnewsham Choice Genetics

Ampaire, Agatha	M.S.	2011	Researcher, University of Nebraska
Zhao, Xia	PhD	2012	Researcher
Walugembe,	M.S.	2013	Graduate student
Muhammed	Ph.D.	Expected 2017	
Chincilla-Vargas, Josue	M.S.	2018	Graduate student

Postdoctoral Associates	**Year(s)**	**Present Position**
Flanagan, Michael	1984-85	Molecular biologist, Ohio
Wesley, Irene	1984	Microbiologist, USDA
Hoeschele, Ina	1986-87	College professor, VPI, Blacksburg VA
Vaske, David	1992-94	Molecular geneticist, Pioneer Hybrid, IA
Ruohonen-Lehto, Marja	1991-93	Biotech. Regulator, Finland
Wang, Lizhen	1994-1996	Swine geneticist, PIC USA, Franklin, KY
Kapke, Paul	1995-1996	Geneticist, Sygen International, Franklin KY
Hu, Zhiliang	1996-2000	Bioinformatics researcher, TN
Ernst, Cathy	1996	Assistant Professor, Michigan State University
Larsen, Niels	1997	Faculty, University of Copenhagen, Denmark
Marklund, Steffan	1998-1999	Researcher, Swedish Agricultural University, Uppsala, Sweden
Yu, Tun Ping	1998-1999	Scientist, PIC USA, Franklin, KY
Ciobanu, Daniel	1999-2002	Scientist, PIC USA, Franklin, KY
Zhang, Yuandan	1999- 2002	Lecturer, Univ of New England, South Wales, Australia
Woollard, John	2000-2002	Researcher, Iowa State University
Gaboreanu, Ana Maria	2002-2003	Postdoc, University of Iowa
Kim, Kwan Suk	2003	Assistant Professor, Korea
Otieno, Charles	2002-2004	Lecturer, British Columbia University
Grapes, Laura	2004-2005	Researcher, Monsanto
Yu, Mei	2004-2006	Professor, Wuhan Agric University
Bin Fan	2006-2011t	Professor , Wuhan University
Suneel Onteru	2007– 2012	Postdoctoral researcher
Zhiqiang Du	2007– 2013	Assoc Scientist
Eui-Soo Kim	2013 - 2015	Postdoctoral researcher
Francesca Bertolini	2015 present	Postdoctoral researcher

Visiting Scientists	**Year(s)**	**Country**
Goedegebuure, Dolph	1986	Netherlands
Sye, Y. S.	1988-89	Korea
Wang, L. Y.	1989-90	China
Kaplon, Marion	1990-91	Poland
Park, Y.	1997	Korea

Bertani, G.	1997-98	Brazil
Emnett, Rebecca	1999	US
Soller, Morris	2000	Israel
Grindflek, Eli	2000	Norway
Perez-Enciso, Miguel	2001	Spain
Pita, Renata	2002-03	Brazil
Suwanasopee, T.	2003	Thailand
Guimares, S	2005-2006	Brazil
Pia Pagkaliwagan Faylon	2007	Philipines
You-Kyoung Ha	2007	S. Korea
Benedicte Renaville	2007-2008	Italy
Mahlako Linky Makgahlela	2008-2009	South Africa
Teresa Giro	2009	Spain
Metodiev, Stoycho	2011-2012	Bulgaria
Joan Estany	2012	Spain
Ahmed Elbeltagy	2013	Egypt
Joram Mwacharo	2014, 2016	Ethiopia
George Masalya	2015	Tanzania
Ahmed Elbeltagy	2015, 2016	Egypt
Kathy Zurburg	2016	Canada
Andrea Talenti	2016	Italy
Atiyeh Peiravan	2016	Iran/UK
Erica Gorla	2018	Italy
Alex Bagnato	2018, 2019	Italy
Sinebongo Mdyogolo	2019	S. Africa

INTERNATIONAL EXPERIENCE

Location	Sponsor	Dates	Function
People's Republic of China	Shenyang Agricultural College	6/1-18/82	Taught and Consulted on Swine Breeding
South Korea	US Feed Grains Council	4/14-28/84	Seminar and Consulting for Swine Breeding
GDR, Poland	US Feed Grains Council	8/29-9/13/84	Seminars and Consulting for Swine Breeding
Edinburgh, Scotland	ABRO	6/26-28/85	Seminars
Jouy-en-Josas, France	French Government Scholarship	7/1/85-1/1/86	Sabbatical Leave (Swine Genetics Research)
Wageningen, Netherlands	Agricultural University of Wageningen	8/26-28/85	Seminars
Denmark	National Institute of Animal Science	8/30/85	Seminars
Uppsala, Sweden	Swedish University of Agricultural Science	9/1-4/85	Seminars
Thesolaniki, Greece	European Association of Animal Production	9/30-10/2/85	Paper Presentation
Netherlands	Cofolk Breeding Company	11/1/85	Swine Breeding Consulting
Bern, Switzerland	University of Bern	11/8/85	Seminars
Uppsala, Sweden	Swedish University of Agricultural Science	12/4-6/85	Ph.D. External Examiner
Wageningen, Netherlands	NATO Grant	3/1-7/87	Research
West Germany	German Animal Breeder's	3/8-14/87	Invited Papers

Location	Sponsor	Dates	Function
	Society		
Italy	International Pig Conference	4/28-5/3-87	Invited Paper
Portugal	Industry Travel Grant	9/24-10/1/87	EAAP Meetings
People's Republic of China	USDA, ISU, IPPA	3/14-24/89	Selection of Chinese Pigs for Importation
South Korea	US Feed Grains Council	9/15-22/89	Invited Seminar
Des Moines, IA (World Pork EXPO Display)	NPPC	6/1-4/90	Chinese Pigs
Jouy-en-Josas, France	INRA	6/28/90	Research Seminar Presentation
Toulouse, France (International Chinese Pig Meeting)	ISU	7/4-5/90	Presentation
Edinburgh, Scotland (4th World Congress on Genetic Applied to Livestock)	ISU/4WCGAL	7/21-28/90	Invited Talk; Contributed Talk
Lansing, Michigan (International Congress on Animal Genetics)	ISU	8/25-31/90	Invited Presentation; Committee Work
Bangor, Wales, UK (International Disease Resistance Conference)	Wales College of Agriculture	9/11-15/90	Invited Presentation
Moscow, USSR; VASHkNill Conference	VASHkNill	10/1-8/90	Consulting and Paper Presentation
Toulouse, France; Paris, France	PiGMaP Consortium; EEC Commission	12/1-8/91	Consulting and Paper Presentation
Interlaken, Switzerland	ISU	8/31-9/10/92	ISAG Meeting; Presented Papers; Program Chair

Location	Sponsor	Dates	Function
Lorca, Spain	Spanish Swine Breeders	10/13-20/92	Invited Paper
Brussels, Belgium	PiGMaP Consortium; EEC Commission	6/12-28/93	Consulting and Paper Presentation
Edinburgh, Scotland	PiGMaP Consortium; EEC	2/24-28/94	Consulting and Paper Presentation
Edmonton, Canada	Canadian Government	6/21-22/94	Paper Presentation
Pushkin, Russia	ISU/USAID	6/23-7/5/94	Development of Collaborative Research
Prague, Czech Republic	ISU	7/23-29/94	Paper Presentation and Workshop Leader
Guelph, Canada	Canadian Holstein Association	3/26-28/95	Invited Paper Presentation
Ottawa, Canada	Canadian Society of Animal Science	7/11-12/95	Invited Paper Presentation
Prague, Czech Republic	ISU/USDA	9/4-9/95	Meeting and Presentation of Paper
Jerusalem, Israel	ISU	11/8-14/95	Two Invited Talks; Collaborative Research
Wageningen, Netherlands	ISU	11/14-15/95	Invited Talk; Collaborative Research
Ghent, Belgium	ISU/USDA	11/16-18/95	Invited Talk; Collaborative Research
Brisbane, Australia	HUGO	12/1-9/95	Three Invited Talks
Amsterdam, Netherlands	Genome Grants	2/24-25/96	PiGMaP Meeting and Research Presentation
Jouy-en-Josas, France	Genome Grants	2/24-25/96	Collaborative Research Development and Work
Sydney, Australia	Animal Reproduction	6/30-7/4/96	Invited Paper at ICAR Meeting

Location	Sponsor	Dates	Function
	Society		
South Korea	Korean National Livestock Institute, Seoul National Univ.	5/18-24/96	Two Invited Lectures and Consulting
France	Genome Grants	7/19-25/96	Invited Workshop Paper and Several Posters
Ottawa, Canada	Genome Grants	12/4-6/96	Two Invited Papers at Ottawa Carcass Symposium and NSIF Meeting
Bologna, Italy	Genome Grants	2/2-5/97	Invited Talk at Pig Producers Meeting and PiGMaP Meetings
Roldue, Netherlands	Int'l. Soc.of Anim. Reproduction	5/31-6/4/97	Invited Paper
India	World Bank	11/8-22/97	Review Team
Australia	Genome Grants	1/11-16/98	Invited Papers
Seoul, Korea	8th World Congress, Animal Production	6/28-7/1/98	Invited Paper, Chair and Convene Section
Seoul, Korea	Korean Swine Producers	7/1/98	Invited Papers at Special Pig Symposium
New Zealand	Genome Grants	8/9-15/98	Invited Papers at ISAG Meeting
Scotland, UK	Pig Industry	9/8-13/98	Industry Consulting
Brussels, Belgium	USDA	9/14-15/98	USDA/EC Research Meeting
Bordeaux, France/ Jouy-en-Josas, France	Industry/ Genome Grant	10/20-24/98	Data Collection-Talk/ EC Research Meeting
Birmingham, UK	Industry	10/25-29/98	Research Meeting
Wye, UK	British Breeders Roundtable	3/20-28/99	Invited Paper
Toulouse, France	USDA	5/2-5/99	Invited Presentation at Comparative Genome Meeting
Uppsala, Sweden	Swedish Agricultural	6/7-9/99	External Ph.D. Examiner

Location	Sponsor	Dates	Function
	University		
Vicosa, Brazil	Brazilian University	9/21-20/99	Invited Talk at International Symposium
Seoul, Korea	Korea Livestock Research Institute	10/19-25/99	Invited Talk
South Africa	National Veterinary Lab	2/17-27/00	Design Experiments
Barcelona, Spain	Spanish Animal Breeding	6/7-11/00	Invited Speaker and Reunion of Animal Breeders
Northern Germany	PIC	6/27-7/2/00	Visit to Swine Herds and Consulting
Aurora, Camden	PIC	7/9-14/00	Data Collection
Hague, Netherlands	USDA	8/19-24/00	Speaker at EAAP Meeting.
San Paulo, Brazil; Visocas, Brazil	Brazilian Genetics	9/18-24/00	Invited Speaker at the National Genetics Meetings Research Project Development
Villa Real, Portugal	Portugal University	10/12-18/00	Invited Speaker at National Pig Meetings and Graduate Short Course Instructor
Bordeaux, France ; Jouy-en-Josas, France	INRA-PIC	11/10-19/00	Pig Data Collection and Invited Seminar at INRA
Bordeaux, France ; Jouy-en-Josas, France	INRA-PIC	3/11/-16/01	Pig Data Collection and Research Discussions
Bello Horizante, Brazil	Brazilian Reproduction Society	8/1-5/01	Invited Paper at World Congress on Reproduction
Taiwan, Thailand	Ensminger Schools, ISU	1/27-2/10/02	Lectures, Interaction with Local Producers, Cultural Exchange
Cambridge, UK; Wye, UK	Sygen International; British Swine Breeders Roundtable	4/16-20/02	Cooperative Research at Cambridge University; Invited Paper at BBR
Montpellier, France	World Congress on Genetics Applied to	8/18-23/02	Invited Plenary Talk; Other Presentations at 7th World Congress on Genetics Applied

Location	Sponsor	Dates	Function
	Livestock Production org.		to Livestock Production
Wuhan, Shanghai; Hongzhou, P R China	College of Agriculture, Sygen International	9/17-27/02	5 Invited Talks; Development of Cooperative Research and Training Programs
Barcelona, Cordoba Spain	PIC Europe, ECC	11/03-11/02	Invited Presentations to Spanish Pig Breeders, ECC Genetics Diversity Conference.
Cambridge, UK	Sygen, Int	3/30-31/03	Studentship research meetings, Cambridge University
Mexico City, Mexico	University of Mexico City	5/20/03	Invited Presentation at Conference on Veterinary Med.
Puerta Vallarta, Mexico	PIC Mexico	5/23/03	Invited Presentations and Consulting with Producers
Saskatchawan, Canada	Canadian Society of Animal Science	6/11-13/03	Invited Paper Can Soc of Animal Science and Invited Paper at Canadian Swine Mtg
Jouy-en-Josas, France	USDA	928/03	Invited Paper –Pig Sequencing Consortium Mtg
Budapest, Hungary	Ensminger Schools, ISU	10/8-15/03	Lectures, Interaction with Local Producers, Cultural Exchange
Cambridge, UK	Sygen International	4/14-15/04	Student Conference
Wye, UK	British Pig Breeders Roundtable	4/20-23/04	Invited Paper
Seoul, Korea	ISU College of Agriculture	5/10-5/16/04	Two Invited Talks
As, Norway	Norwegian College of Agriculture	6/15-20/04	Invited talk

Location	Sponsor	Dates	Function
Iceland	Nordic Council of Research	8/10-15/04	Present invited talk to Ministers of Agriculture of Nordic Countries
Tokyo Japan	USDA	9/10-16/04	Attend Int. Soc. Anim Genetics
Seoul Korea	Ensminger Schools, ISU	10/9-16/04	Lectures, Interaction with Local Producers, Cultural Exchange
Chile	Agro Super	11/16-20/04	Genetics consulting and training
Hixton, U.K.	USDA/Sanger Inst	2/28-3/2/05	Swine genome sequencing
Toronto, Canada	PIC USA	3/5 – 3/7/05	Invited presentation to Am Assoc. Swine Veterinarians
Kampapla Uganda Narobi, Kenya	SRL-ISU project	3/31–4/10/05	Develop plans to improve animal genetics delivery, present invited talks, research discussions
Narobi, Kenya	ILRI-Nairobi	5/10-5/14/05	Invited conference attendee
Pueta Vallarte, Mexico	Mexican Porrk Producers	10/21-25/05	Invited speaker at national pork producer meetings
Kelowna, BC Canada	PIC	10/23-25/05	Invited speaker to pork production meetings
Beijing, Wuhan, Nanching, China	Various Chinese universities	10/28/05-11/08/05	Present seminars and lectures to three genomics groups in China
Lodi, Italy Bologna, Italy	COST European Network for Pig Genomics	2/19-22/06	Chair symposium session, present posters, present invited lectures Univ of Bologna
Bello Horizonte WCGALP8	WCGALP/ISU	8/12-19/06	Chair Session , present papers
Copenhagen , Denmark	Royal Veterinary University	10/7-13/06	Invited paper
Johansburg, South Africa	International Symposium on Pig genetic improvement	9/03-7/06	Invited speaker
Hangzhou China	Eagles Food Workshop	12/4-6/06	Invited Speaker

Location	Sponsor	Dates	Function
Uganda	CSRL	2/16-24/2007	Develop pig industry project
Paris, France	INRA	3/9-16/2007	Develop cooperative agreement
Singapore	CP Industries	4/8-14/2007	Presnt shrimp research project
Wuhan, China	Wuhan Agric University	10/5-12/2007	Present invited paper to Chinese Animal Breeding Society
Paris, France	In Conf Animal Health	10/21-26/2007	Present poster
Nairobi, Kenya	ILRI	11/4-9/ 2007	Present invited paper
Kampala, Uganda	VEDCO	2/24-3/1/08	Lecture, develop pig industry
San Jose, Costa Rica	Ensminger funding	5/21-24/08	Conference planning
Amsterdam, NL	Coordinator funding	7/19-24//08	ISAG meetings
Sophia, Bulgaria	Ensminger funding	10/14-18/08	Seminar presentation
Seoul, Korea	Coordinator funding	11/5-11/12/08	2 seminars presented
San Jose Costa Rica	Ensminger Fuds	2/7-14/09	Organized Ensminger school
Kamuli Uganda	CSRL funds	3/20-30/09	Development work
Kent UK	Genome funds	4 10-13/09	Swine breeders roundtable , present paper
Kamuli Uganda	CSRL funds	4/22-28/09	Long range planning
Nairobi Kenya	Gates Foundation	6/17-23/09	Gates grant discussions
LLeida, Spain	Ensminger Funds	10/28-11/2/09	Ensminger school planning
Cambridge, UK	Coordinator Funds	11/2-5/09	Swine sequencing meeting paper presentations
Kamuli Uganda	CSRL funds	11/9-16/09	Development work
Lleida , Spain	Ensminger Fund	May 14-22/10	Organized Ensminger School
Edinburgh, Scotland	ISAG	July 20-30/10	ISAG Orgnizing committee-International meetings
Leipzig, Germany	Grant funds	August 1-6/10	World congress on genetics Applied to Livestock Production/ presented talsk
Armidale Australia	Ensminger funds	Nov 6-18/2010	Present invited papers
Kamuli Uganda	CSRL funds	11/8-16/10	Development work
Delhi, India	Indian Government, Ensminger program	2/14-23/11	Invited presentation to international meeting

Location	Sponsor	Dates	Function
Kamuli, Uganda	CSRL	5/12-20/11	Development work
Jerusalem, Israel	Ensminger program	6/28-7/5	Invited talk
Beijing, Wuhan China	Ensminger program	10/13-21/11/11	Invited talks
Nairobi, Kenya	USAID	11’26-12/3/11	Goat genomics meetings
Malta	USAID	12/9-16/11	Peanunt CRSP review meeting
San Paulo , Brazil	Brazil. Gov	Feb 2012	Goat meeting and invited talk
Addis , Ethiopia	USAID	April, 2012	Project review
Cairo , Egypt	USAID	May 2012	Water project review
Amman, Jordan	USAID	May 2012	Water project review
Cairns , Australia	ISAG	July, 2012	ISAG meetings
Uganda	USDA	10/22-11/2/2012	Chicken sampling
Nairobi, Kenya	ILRI	12/9-15/2012	ILRI project review
Kampalla, Uganda	USAID	3/10-3/15/2013	USAID Goat project
Singapore	PAG Asia	3/15-3/20/2013	Invited speaker
Adis Ababa, Ethiopia	ILRI	5/18-23/2013	Scientific advisory board
Nairobi, Kenya	Gates Foundation	7/20-7/27/2013	Advised young African scientists
Wuhan, China	Huazhong University	9/16- 9/22/2013	Invited speaker
Rio de Janero, Brazil	Gates foundation	10/27-10/31/2013	Advice on livestock projects
Kamuli, Uganda	CSRL	11/19-11/26/2013	Advice on livestock projects
Morogoro, Tanzania	ILRI	12/7-12/12/2013	Scientific advisory board on dairy value chain
Lima , Peru	Ensminger, La Molina University	Feb 19-23, 2014	Ensminger conferenceplaning and site visit
Dublin, Ireland	Heritage farms	March 16-21, 2014	Pig genetics consulting
Lleida Spain	Catalonian Research council	April 21-25, 2014	Grant evaluations
Singapore	PAG Asia	May 16-21, 2014	Meeting organizer and speaker
Addis, Ethiopia	USAID	June 9-16, 2014	Goat Improvement meetings

Location	Sponsor	Dates	Function
Xi'an, China	ISAG	July 25-31, 2014	Int ISAG meeting
Vancouver, Canada	World Congress	Aug 18-23, 2014	World Congress on Quant Genetics Applied to Livestock meeting
Nairobi, Kenya	ILRI	Sept 2-7, 2014	Scientific advisory board meetings
Lima, Peru	LaMolina University	Nov. 1-8,2014	Ensminger conference
Chengdu, China	Panda Research Center	Nov 10-15,2014	Research collaboration
Hanoi, Vietnam	ILRI	Nov16-23, 2014	Research site/value chain review
Kampala, Uganda	CSRL	Dec3-7, 2014	Project review
Kampala Uganda	ILRI	Dec 8-11, 2014	Pig value chain review
Kampala Uganda	CSRL	August 9-17, 2015	Livestock project
Tegucigalpa, Honduras	ISU Ensminger	November 2015	Ensminger site visit
Nairobi, Kenya	ILRI	Dec 6-11, 2015	Project review
Rome, Italy	Adaptmap/AGIN	Feb 20-27, 2016	Goat research and development projects
Havana, cuba	Winrock International	March 14-17, 2016	Invited speaker and livestock review
Kamuli, Uganda	CSRL	March 30 to April 4, 2016	Livestock development
Tegucigalpa, Honduras	ISU Ensminger	May 9-17, 2016	Ensminger school
London, UK	English Thoroughbred horse breeders	June 22-24, 2016	Invited speaker
Delhi, India	USDA	August 24-27, 2016	Invited speaker
Belfast, N. Ireland	ASAS	August 28-31, 2016	Invited speaker
Harbin, China	Agric University	September 24-28, 2016	Invited speaker
Nairobi, Kenya	ILRI	Dec 5-10, 2065	Project review
CapeTown, S. Africa	ITBA	Jan 5-9, 2017	Invited speaker
Quito, Ecuador	Self	Mar 15-22, 2017	Visitor
Seoul, Korea	PAG Asia	May 29- June 2, 2017	Invited speaker
Dublin, Ireland	ISAG	July 14-20, 2017	ISAG Meetings
Kamuli, Uganda	CSRL	Sept 12-19, 2017	CSRL plnning

Location	Sponsor	Dates	Function
Johanesburg, S Africa	Ensminger	Oct 29- Nov 7,2017	AGIN meetings
Guangzhou, China	PPT	Nov 9-11, 2017	Invited speaker
Lleida, Spain	Agrotech	Nov 26-28, 2017	Grant review
Ljubjana, Slovenia	Un of Ljibjana	Dec 1-6, 2017	Invited speaker
Kamuli, Uganda	CSRL	March 3-8	Producer meeetings
Auckland, New Zealand	Ensminger	Feb 7-12, 2018	World Congress
Dubai, AER	Gates Foundation	April 21-25	Livestock consulting
China	Yangxing	October16-22	Pig consulting
Kamuli, Uganda	CSRL	July 9-15	Training center Opening
China	Yangxing	October16-22	Invited paper, Lehamna Conf

PUBLICATIONS

Refereed Articles

1. Rothschild, M. F. and A. B. Chapman. 1976. Factors influencing serum cholesterol levels in swine. J. Heredity 67:47-48.

2. Rothschild, M. F., C. R. Henderson, and R. W. Everett. 1976. Bias of sire evaluations for natural service sires and age of sire. J. Dairy Sci. 59:2091-2094.

3. Rothschild, M. F. and C. R. Henderson. 1979. Maximum likelihood estimates of parameters of first and second lactation milk records. J. Dairy Sci. 62:990-995.

4. Rothschild, M. F., C. R. Henderson, and R. L. Quaas. 1979. Effects of selection on variances and covariances of simulated first and second lactations. J. Dairy Sci. 62:996-1002.

5. Rothschild, M. F., G. W. Bodoh, R. E. Pearson, and R. H. Miller. 1980. Sources of variation in individual quarters milk flow measures. J. Dairy Sci. 63:1138-1144.

6. Pearson, R. E., R. H. Miller, J. W. Smith, L. Fulton, M. F. Rothschild, D. S. Balaine, and J. Coffey. 1981. Comparison of single and multi-trait selection. First lactation milk yield and composition, conformation, feed intake, efficiency, and net income. J. Dairy Sci. 64:77-86.

7. Rothschild, M. F., L. W. Douglass, and R. L. Powell. 1981. Prediction of son's modified contemporary comparison from pedigree information. J. Dairy Sci. 64:331-334.

8. Rothschild, M. F., R. E. Pearson, and R. H. Miller. 1981. Reproductive performance from daughters of single and multiple trait selected sires. J. Dairy Sci. 64:497-507.

9. Miller, R. H., R. E. Pearson, and M. F. Rothschild. 1981. Comparison of single and multi-trait selection. Response in mastitis traits. J. Dairy Sci. 64:832-837.

10. Rothschild, M. F. and M. Grossman. 1981. Teaching Mendelian inheritance with an herediscope. J. Heredity. 72:64.

11. Rothschild, M. F., J. P. Carlson, and L. L. Christian. 1981. Comparison of selection index economic weights and prices paid for performance tested boars. J. Anim. Sci. 53:575-579.

12. Rothschild, M. F., L. L. Christian, and M. L. Hayenga. 1982. Purchaser response for genetically different boars and boar semen. J. Anim. Sci. 55:218-223.

13. Martinez, M. L. and M. F. Rothschild. 1983. Recursive procedures in sire evaluation. J. Dairy Sci. 66:1967-1975.

14. Rothschild, M. F., W. R. Lie, H. L. Chen, C. M. Warner, and L. L. Christian. 1983. Genetic variability at the pig SLA complex in U.S. breeds of pigs. Anim. Bld. Groups. Bioch. Gen. 14:251-255.

15. Grisdale, B., L. L. Christian, H. R. Cross, D. J. Meisinger, M. F. Rothschild, and R. G. Kauffman. 1984. Revised approaches to estimate lean of pork carcasses of known age or days on test. J. Anim. Sci. 58:335-345.

16. Rothschild, M. F., H. T. Hill, L. L. Christian, and C. M. Warner. 1984. Genetic differences in serum neutralization titers of pigs after vaccination with pseudorabies modified live virus-vaccine. Am. J. Vet. Res. 45:1216-1218.

17. VanRaden, P. M., A. E. Freeman, and M. F. Rothschild. 1984. Maximizing genetic gain under multiple stage selection. J. Dairy Sci. 67:1761-1766.

18. Rothschild, M. F., H. L. Chen, C. M. Warner, L. L. Christian, W. R. Lie, L. Venier, M. Cooper, and C. Briggs. 1984. Breed and SLA haplotype differences in agglutination titers following vaccination with B. bronchiseptica. J. Anim. Sci. 59:643-649.

19. Rothschild, M. F., D. R. Zimmerman, R. K. Johnson, L. Venier, and C. M. Warner. 1984. SLA haplotype differences in lines of pigs which differ in ovulation rate. Anim. Bld. Groups Bioch. Gen. 15:155-158.

20. Brannaman, J. L., L. L. Christian, M. F. Rothschild, and E. A. Kline. 1984. Prediction equations for estimating lean quantity in 15 to 50 kg pigs. J. Anim. Sci. 59:991-996.

21. Carlson, J. P., L. L. Christian, M. F. Rothschild, and R. L. Willham. 1984. An evaluation of four procedures to rank centrally-tested boars. J. Anim. Sci. 59:934-940.

22. Draper, D. D., M. F. Rothschild, D. Beitz, and L. L. Christian. 1984. Age and genotype-dependent differences in catecholamine concentrations in the porcine caudate nucleus. Exp. Gerontology 19:377-381.

23. Venier, L., M. F. Rothschild, and C. M. Warner. 1984. Measurement of serum antibody in swine vaccinated with B. bronchiseptica: Comparison of agglutination and ELISA methods. Am. J. Vet. Res. 45:2634-2636.

24. Meeker, D. L., M. F. Rothschild, and L. L. Christian. 1985. Breed differences in return to estrus after PGF2 α induced abortions in swine. J. Anim. Sci. 61:354-357.

25. Rothschild, M. F. 1985. Selection for disease resistance in the pig. Pig News and Information 6:277-280.

26. Lie, W.-R., M. F. Rothschild, and C. M. Warner. 1985. Quantitative differences in GLO enzyme levels associated with the MHC of miniature swine. Anim. Bld. Groups Bioch. Genet. 16:243-248.

27. Rothschild, M. F., Ch. Renard, G. Bolet, P. Dando, and M. Vaiman. 1986. Effect of SLA haplotypes on birth and weaning weights in pigs. Anim. Genet. 17:267-272.

28. Warner, C. M., D. L. Meeker, and M. F. Rothschild. 1987. Genetic control of immune responsiveness: A review of its use as a tool for selection for disease resistance. J. Anim. Sci. 64:394-406.

29. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner, and H. T. Hill. 1987. Genetic control of immune response to pseudorabies and atrophic rhinitis vaccines. I. Heterosis, general combining ability and relationship to growth and backfat. J. Anim. Sci. 64:407-413.

30. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner, and H. T. Hill. 1987. Genetic control of immune response to pseudorabies and atrophic rhinitis vaccines. II. Comparison of additive direct and maternal genetic effects. J. Anim. Sci. 64:414-419.

31. Rothschild, M. F. and L. Ollivier. 1987. Estimation of variance due to mitochondrial genes from several mating designs. Gen. Sel. Evol. 19:171-180.

32. Lawrisuk, L., M. F. Rothschild, R. F. Ross, and L. L. Christian. 1987. Relationship between Mycoplasma hyosynoviae infection and front limb weakness in swine. Am. J. Vet. Res. 48:1395-1397.

33. Kim, C. D., S. J. Lamont, and M. F. Rothschild. 1987. The genetic association of body weight and immune response with the major histocompatibility complex in young chicks. Poultry Sci. 66:1258-1263.

34. Lie, W.-R., M. F. Rothschild, and C. M. Warner. 1987. Mapping of C2, Bf, and C4 genes to the swine major histocompatibility complex. J. Immunology 139:3388-3395.

35. Rothschild, M. F. 1987. Seleccion para la resistencia a enfermedades en el cerdo. Anaporc. 45-52.

36. Hoeschele, I., M. F. Rothschild, and D. Gianola. 1988. A Bayesian approach to recursive prediction of breeding values with categorical data. J. Dairy Sci. 71:452-466.

37. Conley, A. J., Y. C. Jung, N. K. Schwartz, C. M. Warner, M. F. Rothschild, and S. P. Ford. 1988. Influence of SLA haplotype on ovulation rate and litter size in miniature pigs. J. Reprod. Fert. 82:595-602.

38. Rothschild, M. F. and L. L. Christian. 1988. Genetic control of front leg weakness in Duroc swine. I. Direct response to five generations of divergent selection. Livestock Prod. Sci. 19:459-471.

39. Rothschild, M. F., L. L. Christian, and Y. C. Jung. 1988. Genetic control of front leg weakness in Duroc swine. II. Correlated response in growth rate, backfat and reproduction

from five generations of divergent selection for front leg soundness. Livestock Prod. Sci. 19:473-485.

40. Goedegebuure, S. A., M. F. Rothschild, L. L. Christian, and R. Ross. 1988. Severity of osteochondrosis in genetic lines of Duroc swine divergently selected for front leg weakness. Livestock Prod. Sci. 19:487-498.

41. Draper, D., M. F. Rothschild, L. L. Christian, and S. A. Goedegebuure. 1988. Effects of divergent selection for leg weakness on angularity of joints in Duroc swine. J. Anim. Sci. 66:1636-1642.

42. Flanagan, M. P., Y. C. Jung, M. F. Rothschild, and C. M. Warner. 1988. RFLP analysis of class I genotypes in Duroc swine. Immunogenet. 27:465-469.

43. Lie, W.-R., M. F. Rothschild, and C. M. Warner. 1988. Preparation and characterization of murine monoclonal antibodies to swine lymphocyte antigens. Immunol. 64:599-605.

44. Rothschild, M. F., L. L. Christian, and W. Blanchard. 1988. Evidence for multigene control of cryptorchidism in swine. J. Hered. 79:313-314.

45. Ford, S. P., N. K. Schwartz, M. F. Rothschild, A. J. Conley, and C. M. Warner. 1988. Influence of SLA haplotype on preimplantation embryonic growth rate in miniature swine. J. Repro. Fert. 84:99-104.

46. Boggess, M. V., M. F. Rothschild, and L. L. Christian. 1989. Comparison of foot and leg structure in crossbred pigs sired by Duroc boars which vary in degree of leg weakness. J. Anim. Breed. Genet. 106:44-50.

47. Jung, Y. C., M. F. Rothschild, M. P. Flanagan, E. Pollak, and C. M. Warner. 1989. Genetic variability between two breeds based on restriction fragment length polymorphisms (RFLPs) of major histocompatibility complex class I genes in the pig. Theor. Appl. Genet. 77:271-274.

48. Jung, Y. C., M. F. Rothschild, M. P. Flanagan, C. M. Warner, and L. L. Christian. 1989. Association of restriction fragment length polymorphisms of swine leucocyte antigen class I genes and production traits in Duroc and Hampshire boars. Anim. Genet. 20:79-91.

49. Lindberg, G. L., B. B. Shank, M. F. Rothschild, J. E. Mayfield, A. E. Freeman, C. M. Koehler, and D. C. Beitz. 1989. Characteristics of mammary mitochondria in lines of mice genetically divergent for milk production. J. Dairy Sci. 72: 1175-1181.

50. Kim, C. D., S. J. Lamont, and M. F. Rothschild. 1989. Associations of major histocompatibility complex phenotypes with body weight and egg production traits in S1 White Leghorn chickens. Poultry Sci. 68: 464-469.

51. Rothschild, M. F. 1989. Selective breeding for immune responsiveness and disease resistance in livestock. AgBiotech News and Information 3(1): 355-360.

52. Sye, Y. S., M. F. Rothschild, and M. Healey. 1989. Heritabilities and genetic correlations for some traits in Yorkshire swine from on-the-farm data. Korean J. Anim. Sci. 31:563-566.

53. Rothschild, M. F. 1989. The production and evaluation of high quality lean market pigs. Korean J. Pig Research 10:48-55.

54. Wang, L. Y., M. F. Rothschild, and D. D. Draper. 1990. Comparison of body measurements in Duroc swine which are genetically different for severity of leg weakness. Acta Vet. Zootech. Sinica 21:110-114.

55. Ernst, C. W., M. F. Rothschild, L. L. Christian, and R. C. Ewan. 1990. Effect of dietary sodium bicarbonate on leg structure in Duroc swine that differ genetically for leg weakness. J. Anim. Sci. 68:2583-2590.

56. Pusateri, A. E., M. F. Rothschild, C. M. Warner, and S. P. Ford. 1990. Changes in morphology as well as the number, size, and estrogen content of cells from individual littermate pig conceptuses on days 9, 11, 12, and 13 of gestation. J. Anim. Sci. 68:3727-3735.

57. Wood, C. M., L. L. Christian, and M. F. Rothschild. 1990. Factors to adjust litter weight of pigs to a standard 21 days of age. J. Anim. Sci. 68:2629-2633.

58. Wood, C. M., L. L. Christian, and M. F. Rothschild. 1991. Use of an animal model in situations of limited subclass numbers and high degree of relationships. J. Anim. Sci. 69:1420-1427.

59. Kaplon, M. J., M. F. Rothschild, P. J. Berger, and M. Healey. 1991. Population parameter estimates for performance and reproductive traits in Polish Large White nucleus herds. J. Anim. Sci. 69:91-98.

60. Kaplon, M. J., M. F. Rothschild, P. J. Berger, and M. Healey. 1991. Genetic and phenotypic trends in Polish Large White nucleus herds. J. Anim. Sci. 69:551-558.

61. Draper, D. D., M. F. Rothschild, and L. L. Christian. 1991. Effects of divergent selection for leg weakness on bone and muscle cross-sectional areas in Duroc swine. Am. J. Vet. Res. 52:164-168.

62. Wood, C. M., L. L. Christian, and M. F. Rothschild. 1991. Evaluation of performance tested boars by using a single trait animal model. J. Anim. Sci. 69:3144-3155.

63. Piedrafita, J., M. F. Rothschild, and L. L. Christian. 1991. Differential response to restricted feeding in two divergent lines of Duroc swine selected for front-leg structure. J. Anim. Breed. and Gen. 108:139-146.

64. Takahashi, H., L. L. Christian, M. F. Rothschild, and D. Harville. 1991. Estimates of inbreeding depression of growth and backfat of Japanese Duroc pigs. Anim. Sci. Technol (Jap). 62:323-329.

65. Boggess, M. V., D. E. Wilson, M. F. Rothschild, and D. G. Morrical. 1991. National sheep improvement program. Age-adjustment of weaning weight. J. Anim. Sci. 69:3190-3201.

66. Warner, C. M., M. S. Brownell, and M. F. Rothschild. 1991. Analysis of litter size and weight in mice differing in Ped gene phenotype and the Q region of the H-2 complex. J. Reprod. Immunol. 19:303-313.

67. Kehret, C. M., M. F. Rothschild, and D. D. Draper. 1991. Analysis of gait parameters in Duroc swine genetically divergent for front-leg structure. J. Anim. Breed. Gen. 108:280-289.

68. Cheng, S., M. F. Rothschild, and S. J. Lamont. 1991. Estimates of quantitative genetic parameters of immunological traits in chickens. Poultry Sci. 70:2023-2027.

69. Rothschild, M. F., R. G. Larson, C. Jacobson, and P. Pearson. 1991. Pvu II polymorphisms at the porcine estrogen receptor locus (ESR). Anim. Genet. 22:448.

70. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1992. Heterosis and recombination effects in Hampshire and Landrace swine: I. Maternal traits. J. Anim. Sci. 70:89-98.

71. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1992. Heterosis and recombination effects in Hampshire and Landrace swine: II. Performance and carcass traits. J. Anim. Sci. 70:99-105.

72. Xu, Y., M. F. Rothschild, and C. M. Warner. 1992. Mapping the SLA complex of miniature swine. Mammal. Genome 2:2-10.

73. Jung, Y. C., G. J. Jeon, S. H. Kim, H. Y. Park, Y. I. Park, and M. F. Rothschild. 1992. Genetic and phenotypic trends in a landrace line bred swine herd. Korean J. Anim. Sci. 34:36-40.

74. Draper, D. D., M. F. Rothschild, and L. L. Christian. 1992. Effects of divergent selection for leg weakness on muscle and bone characteristics in Duroc swine. Gen. Sel. Evol. 24:363-374.

75. Ruohonen-Lehto, M. K., M. F. Rothschild, R. G. Larson, and C. M. Warner. 1992. MspI and SstI restriction fragment length polymorphisms at the porcine prolactin locus. Anim. Genet. 23:573.

76. Ruohonen-Lehto, M. K., M. F. Rothschild, and R.G. Larson. 1993. Restriction fragment length polymorphisms at the heat shock protein HSP70 gene(s) in pigs. Anim. Genet. 24:67.

77. Tuggle, C. K., T.-P. Yu, J. Helm, and M. F. Rothschild. 1993. Cloning and analysis of swine PIT-1, a gene controlling growth hormone expression. Anim. Genet. 24:17-22.

78. Yu, T.-P., M. F. Rothschild, and C. K. Tuggle. 1993. MspI RFLP at the swine PIT-1 Locus. J. Anim. Sci. 71:2275.

79. Schmitz, C. B., M. F. Rothschild, and C. K. Tuggle. 1993. Rapid Communication: BslI polymorphism at the swine ∝-Actinin2 locus. J. Anim. Sci. 71:3477.

80. Ernst, C. W., D. A. Vaske, R. G. Larson, and M. F. Rothschild. 1993. Rapid Communication: MspI restriction fragment length polymorphisms at the swine myogenin (MYOG) locus. J. Anim. Sci. 71:3479.

81. Elmquist, J. K., L. R. Ross, W. Hsu, M. F. Rothschild, and C. D. Jacobson. 1993. Cholecystokinin-like immunoreactivity in the brains of young Meishan and Duroc pigs. J. Anim. Breed. Genet.110:473-479.

82. Michaels, R. D., S. C. Whipp, and M. F. Rothschild. 1994. Resistance of Chinese Meishan, Fengjing and Minzhu pigs to K88ac+ *Escherichia coli*. Am. J. Vet. Res. 55:333-338.

83. Rothschild, M. F. 1994. The wrinkle factor gene: Evidence in three diverse species. J. Irreproducible Results 39:4-5.

84. Vaske, D. A., M. K. Ruohonen-Letho, R. G. Larson, C. M. Warner, and M. F. Rothschild. 1994. Rapid Communication: Restriction fragment length polymorphisms at the porcine transporter associated with antigen processing 1 (TAP1) locus. J. Anim. Sci. 72:255.

85. Vaske, D. E., H. C. Liu, R. G. Larson, C. M. Warner, and M. F. Rothschild. 1994. Rapid Communication: TaqI restriction fragment length polymorphism at the porcine transporter associated with antigen processing 2 (TAP2) locus. J. Anim. Sci. 72:798.

86. Ernst, C. W., D. A. Vaske, R. G. Larson, M. E. White, and M. F. Rothschild. 1994. Rapid Communication: MspI restriction fragment length polymorphisms at the swine MYF-6 locus. J. Anim. Sci. 72:799.

87. Tuggle, C. K., J. Helm, and M. F. Rothschild. 1994. Cloning, sequencing and restriction fragment length polymorphism analysis of a porcine cDNA for OCT2. Anim. Genet. 25:141-145.

88. Rahman A., D. A. Vaske, R. G. Larson, C. M. Warner, and M. F. Rothschild. 1994. Rapid Communication: A XbaI restriction fragment length polymorphism at the porcine T-Complex 1 (TCP1) locus. J. Anim. Sci. 72:2202.

90. Helm, J. T., C. B. Schmitz, C. K. Tuggle, and M. F. Rothschild. 1994. Rapid Communication: SacI restriction fragment length polymorphism with a porcine vascular cellular adhesion molecule (VCAM1) cDNA fragment. J. Anim. Sci. 72:274.

91. Yu, T.-P., C. B. Schmitz, M. F. Rothschild, and C. K. Tuggle. 1994. Expression pattern, genomic cloning and RFLP analyses of the swine PIT-1 gene. Anim. Genet. 25: 229-233.

92. Archibald, A., J. Brown, S. Couperwhite, H. McQueen, D. Nicholson, C. Haley, W. Coppieters, A. van de Weghe, A. Stratil, A. Wintero, M. Fredholm, N. Larson, V. Nielsen, D. Milan, N. Woloszyn, A. Robic, M. Dalens, J. Riquet, J. Gellin, J.-C. Caritez, D. Hue, G. Burgaud, L. Ollivier, J.-P. Bidanel, M. Vaiman, Ch. Renard, H. Geldermann, R. Davoli, D. Ruyter, E. Verstege, M. Groenen, W. Davies, B. Hoyheim, A. Keiserud, L. Andersson, H. Ellegren, M. Johansson, L. Marklund, R. Miller, D. Dear, E. Signer, A. Jeffreys, C. Moran, P. Le Tissier, Muladno., M.Rothschild, C. Tuggle, D. Vaske, J. Helm, H.-C. Liu, A. Rahman, T.-P. Yu, R. G. Larson, and C. Schmitz. 1995. The PiGMaP consortium linkage map of the pig (*Sus scrofa*). Mammal. Genome 6:157-175.

93. Vaske, D. A., R. G. Larson, C. M. Warner, and M. F. Rothschild. 1995. Rapid communication: Stu I Restriction fragment length polymorphism at the porcine bone morphogenetic protein 5 (BMP5) locus. J. Anim. Sci.73:311.

94. Vaske, D. A., R. G. Larson, C. M. Warner, and M. F. Rothschild. 1995. Rapid communication: TaqI Restriction fragment length polymorphism at the porcine bone morphogenetic protein 6 (BMP6) locus. J. Anim. Sci. 73:312.

95. Brown, W. R., I. Kacskovics, B. Amendt, R. Schinde, N. Blakemore, M. Rothschild, and J. E. Butler. 1995. The hinge deletion variant of porcine IgA results from a mutation at the splice acceptor site in the first Cà intron. J. Immunology 154:3836-3842.

96. Yu, T.-P., C. K. Tuggle, C. B. Schmitz, and M. F. Rothschild. 1995. Association of PIT polymorphisms with growth and carcass traits in pigs. J. Anim. Sci. 73:1282-1288.

97. Vaske, D. A., R. G. Larson, H. C. Liu, C. M. Warner, and M. F. Rothschild. 1995. Rapid communication: Restriction fragment length polymorphism at the porcine superoxide dismutase 2 locus. J. Anim. Sci. 73:921.

98. Tuggle, C. K., C. Schmitz, L. Wang, and M. F. Rothschild. 1995. Cloning, and mapping of OTF1 extends a synteny group conserved on SSC 4 and HSA 1. Mammal. Genome 6:673-676.

99. Wu, L. M. F. Rothschild, and C. M. Warner. 1995. Mapping of the SLA complex class III region by pulsed field gel electrophoresis. Mammal. Genome 6: 607-610.

100. Rothschild, M. F., H.C. Liu, C. K. Tuggle, T. P. Yu, and L. Wang. 1995. Analysis of pig chromosome 7 genetic markers for growth and carcass performance traits. J. Anim. Breed Genet. 112:341-348.

101. Boggess, M. V., D. E. Wilson, M. F. Rothschild, and D. G. Morrical. 1995. National sheep improvement program. Adjustment factors for birth and weaning weight and 30-day, 60-day and 90-day weights. J. Anim. Breed. Genet. 113:29-41.

102. Rothschild, M. F., C. Jacobson, D. A. Vaske, C. Tuggle, L. Wang, T. Short, G. Eckardt, S. Sasaki, A. Vincent, D. G. McLaren, O Southwood, H. van der Steen, A. Mileham, and G. Plastow. 1996. The Estrogen Receptor locus is associated with a major gene influencing litter size in pigs. Proc. Nat. Acad. Sci. (USA) 93:201-205.

103. Messer, L., L. Wang, J. Yelich, D. Pomp, R. D. Geisert, and M. F. Rothschild. 1996. Linkage mapping of the retinol-binding Protein (RBP4) gene to porcine chromosome 14. Mammal. Genome 7:396.

104. Messer, L., L. Wang, J. Yelich, D. Pomp, R. D. Geisert, and M. F. Rothschild. 1996. Linkage mapping of the retinoic acid receptor (RARG) gene to porcine chromosome 5. Anim. Genet. 27:175-177.

105. Kapke, P., L. Wang, J. Helm, and M. F. Rothschild. 1996. Integration of the PiGMaP and USDA maps for chromosome 14. Anim. Genet. 27:187-190.

106. Kapke, P., R. Wales, K. Siggens, G. Plastow, and M. F. Rothschild. 1996. Rapid Communication: Mapping of a X-linked porcine microsatellite. J. Anim. Sci. 74:1442.

107. Larson, R. G., B. S. Turner, K. R. Bhaskar, J. T. Lamont, and M. F. Rothschild. 1996. Rapid Communication: BamHI restriction fragment length polymorphism at the pig gastric Mucin (MUC5AC) locus. J. Anim. Sci. 74:1443.

108. Rothschild, M. F. 1996. Genetics and reproduction in the pig. Reprod. Livestock Sci. 42:143-151.

109. Andersson, L., A. Archibald, M. Ashburner, S. Audun, W. Barendse, J. Bitgood, C. Bottema, T. Broad, S. Brown, D. Burt, N. Copeland, S. Davis, M. Davisson, J. Edwards, A. Eggen, J. Eppig, P. Grewe, T. Gill III, J. Graves, J. Hetzel, A. Hilyard, H. Jacob, L. Jaswinska, N. Jenkins, H. Kunz, G. Levan, O. Lie, L. Lyons, P. Maccarone, G. Montgomery, S. Moore, D. C. Moran, D. Morizot, F. Nicholas, S. O'Brien, Y. Parsons, J. Peters, J. Postlethwait, M. Raymond, M. Rothschild, L. Schook, Y. Sugimoto, C. Szpirer, M. Tate, J. Taylor, J. VandeBerg, M. Wakefield, J. Wienberg, and J. Womack. 1996. Comparative genome organization of vertebrates. Mammal. Genome 7:717-734.

110. Ernst, C. W., P. A. Kapke, M. Yerle, and M. F. Rothschild. 1997. The leptin receptor gene (LEPR) maps to porcine chromosome 6. Mammal. Genome 8:226.

111. Messer, L. A., L. Wang, C. K. Tuggle, M. Yerle, P. Chardon, D. Pomp, J. E. Womack, W. Barendse, A. M. Crawford, D. R. Notter, and M. F. Rothschild. 1997. Mapping of the Melatonin Receptor 1a (MTNR1A) gene in pigs, sheep and cattle. Mammal. Genome 8:368.

112. Kapke, P., H. P. Jorgensen, and M. F. Rothschild. 1997. Survival of the last Mulefoot pig herd receives help from a biodiversity institute. Diversity 13:24-25.

113. Vincent, A. L. and M. F. Rothschild. 1997. Rapid Communication: A restriction fragment length polymorphism in the ovine Prolactin (PRL) gene. J. Anim. Sci. 75:1686.

114. Sun, H. S., L. Wang, M. F. Rothschild, and C. K. Tuggle. 1997. Assignment of porcine ceruloplasmin and v-RAF-1 murine viral oncogene homolog 1 to chromosome 13 by linkage analysis. Mammal. Genome 8:626-627.

115. Mendez, E. A., C. W. Ernst, and M. F. Rothschild. 1997. Rapid Communication: A novel DNA polymorphism of the porcine myogenin (MYOG) gene. J. Anim. Sci. 75:1984.

116. Vincent, A. L., L. Wang, and M.F. Rothschild. 1997. A restriction fragment length polymorphism in the *Porcine Leptin Receptor* (LEPR) gene. J. Anim. Sci. 75:2287.

117. Tuggle, C. K., T.-P. Yu, H. S. Sun, L. Wang, and M. F. Rothschild. 1997. Rapid Communication: Mapping the pig VCAM1 locus to chromosome 4 using a double-stranded conformation polymorphism marker (VCAM1-2). J. Anim. Sci. 72:2764.

118. Ollivier, L., L. A. Messer, M. F. Rothschild and C. Legault. 1997. The use of selection experiments for detecting quantitative trait loci, with an application to the INRA hyperprolific pig. Genet. Res. 69:227.

119. Rothschild, M. F. and M. Soller. 1997. Candidate gene analysis to detect traits of economic importance in domestic livestock. Probe 8:13.

120. Short, T. H., M. F. Rothschild, O. I. Southwood, D. G. McLaren, A. DeVries, H. van der Steen, G. R. Eckardt, C. K. Tuggle, J. Helm, D. A. Vaske, A. J. Mileham, and G. S. Plastow. 1997. The effect of the Estrogen receptor locus on reproduction and production traits in four commercial lines of pigs. J. Anim. Sci. 75:3138.

121. Sun, H. S., C. Taylor, A. Robic, L. Wang, M. F. Rothschild, and C. K. Tuggle. 1997. Mapping of growth hormone releasing hormone receptor to swine chromosome 18. Anim. Genet. 28:351.

122. Vincent, A. L., L. Wang, C. K. Tuggle, and M. F. Rothschild. 1997. Prolactin receptor maps to pig chromosome 16. Mammal. Genome 8:793.

123. Stalder, K. J., L. L. Christian, M. F. Rothschild, and E.-C. Lin. 1997. Maternal performance differences between porcine stress syndrome normal and carrier Landrace females. J. Anim. Sci. 75:3114.

124. Burk, N. E., A. L. Vincent, and M. F. Rothschild. 1997. Linkage mapping of porcine interleukin 6 (IL6). J. Anim. Sci. 75:3367.

125. Rothschild, M. F., L. A. Messer, and A. Vincent. 1997. Molecular approaches to improved pig fertility. J. Reprod. Fertil. Suppl. 52: 227-236.

126. Ernst, C. W., E. A. Mendez, A. Robic, and M. F. Rothschild. 1998. The myogenin gene (MYOG) physically maps to porcine chromosome 9q2.1-q2.6. J. Anim. Sci. .76:328.

127. Ruhonen-Lehto, M. K., M. F. Rothschild, I. Edfors-Lilja, U. Gustafsson, and S.-L. Vavio. 1998. Isolation of porcine MHC class I cDNA clones and development of an intragenic class I probe from 3'-untranslated region. Anim. Genet. 29: 178-184.

128. Vincent, A., L. Wang, C. K. Tuggle, M. Yerle, and M. F. Rothschild. 1998. Linkage and physical mapping of prolactin to porcine chromosome 7. Anim. Genet. 29:27-29.

129. Burk, N. E., L. A. Messer, C. W. Ernst, and M. F. Rothschild. 1998. Identification of sequence tagged sites in the Asian and African elephant. Anim. Biotech. 9:155-160.

130. Halbur, P. G., M. F. Rothschild, P. S. Paul, B. J. Thacker, and X.-J. Meng. 1998. Differences in susceptibility of Duroc, Hampshire, and Meishan pigs to infection with a high virulence strain (VR2385) of porcine reproductive and respiratory syndrome virus (PRRSV). J. Anim. Breed. Genet. 115:181-189.

131. Stalder, K. J., L. L. Christian, M. F. Rothschild, and E.-C. Lin. 1998. Effect of porcine stress syndrome genotype on the maternal performance of a composite line of stress-susceptible swine. J. Anim. Breed. Genet. 115:191-198.

132. Stalder, K. J., L. L. Christian, M. F. Rothschild, and E.-C. Lin. 1998. Maternal swine trait genetic parameter estimates measured on Landrace females with known porcine stress syndrome genotypes. J. Anim. Breed. Genet. 115:199-209.

133. Kenealy, S., N. J. Larsen, C. K. Tuggle, and M. F. Rothschild. 1998. Rapid Communication: The very-long-chain acyl-CoA dehydrogenase (ACADVL) gene maps to pig chromosome 12. J. Anim. Sci. 76:915-916.

134. Vaiman, M., P. Chardon, and M. F. Rothschild. 1998. Porcine major histocompatibility complex. Office of International Des Epezooties (OIE) Review 17:95-107.

135. Sun, H. S., C. W. Ernst, M. F. Rothschild, and C. K. Tuggle. 1998. A strategy to rapidly identify restriction fragment length polymorphisms (RFLP) in PCR products for gene mapping in animal families. Technical Tips on-Line: T01369.

136. Sun, H. S., L. Wang, M. F. Rothschild, and C. K. Tuggle. 1998. Mapping of the natural-resistance associated macrophage protein (NRAMP1) gene in pigs. Anim. Genet. 29:138-140.

137. Larsen, N. J., S. Kenealy, C. K. Tuggle, and M. F. Rothschild. 1998. Rapid Communication: A HincII polymorphism in the porcine Calpain, Large Polypeptide L3 (CAPN3) gene. J. Anim. Sci. 76:918-919.

138. Maher, S., D. Pflugh, N. J. Larsen, M. F. Rothschild, and A. Bothwell. 1998. Structure/Function Characterization of Porcine CD59: Expression, chromosomal mapping, complement-inhibition and constimulating activity. Transplant. 66(8):1094-1100.

139. Wang, L., T. P. Yu, C. K. Tuggle, H. C. Liu, and M. F. Rothschild. 1998. A directed search for quantitative trait loci on chromosomes 4 and 7 in the pig. J. Anim. Sci. 76:2560-2567.

140. Ernst, C. W., A. Robic, M. Yerle, L. Wang, and M. F. Rothschild. 1998. Mapping of calpastatin and three microsatellites to porcine chromosome 2q2.1-q2.4. Anim. Genet. 29:212-215.

141. Kelly, K. A., N. Larsen, and M. F. Rothschild. 1998. Rapid Communication: Genetic linkage mapping of the porcine fibroblast growth factor 7 (FGF7) gene. J. Anim. Sci. 76:2747-2748.

142. Hu, Z.,L., M. Abbott, and M. F. Rothschild. 1998. Rapid Communication: Progesterone receptor (PGR) gene maps to porcine chromosome 9p13-p11 by a rodent porcine somatic cell hybrid panel. J. Anim. Sci. 76:2749-2750.

143. Larsen, N. J., S. Marklund, K.A. Kelly, M. Malek, C.K. Tuggle, M. Yerle, and M. F. Rothschild. 1999. New insights into porcine-human synteny conservation. Mammal. Genome 10:488-491.

144. Mendez, E.A., L.A. Messer, N. J. Larsen, A. Robic, and M. F. Rothschild. 1999. Rapid Communication: Epridermal growth factor maps to pig chromosome 8. J. Anim. Sci. 77:494-495.

145. Seifert, J. N., N. J. Larsen, S. Marklund, Z. L. Hu, G. Rohrer, and M. F. Rothschild. 1999. Rapid Communication: Genetic linkage and physical mapping of the porcine Androgen receptor (AR) gene. J. Anim. Sci. 77:785-788.

146. Sun, H. S., C. W. Ernst, M. Yerle, P. Pinton, M. F. Rothschild, P. Chardon, C. Rogel-Gaillard, and C. K. Tuggle. 1999. Human chromosome 3 and pig chromosome 13 show complete synteny conservation but extensive gene order differences. Cytogenet. Cell Genet. 85:273-278.

147. Sun, S., L. Wang, M. F. Rothschild, and C. K. Tuggle. 1999. Rapid Communication: Assignment of porcine Serotonin Receptor Subtype2 Alpha and Endothelin B Receptor to chromosome 11 by linkage analysis. J. Anim. Sci. 77:795-796.

148. Kenealy,S. J., K. S. Kim, Z. Hu, and M.F. Rothschild. 1999. Rapid Communication: Genetic Linkage Mapping of the Porcine Cocaine- and Amphetamine-Regulated Transcript (*CART*) Gene. J. Anim. Sci. 77:791-792.

149. Rothschild, M. F., and G. S. Plastow. 1999. Advances in pig genomics and industry applications. Ag Biotech Net 1: Feburary, ABN 007.

150. Rothschild, M. F., and P. Schnable. 1999. Animal and plant genomics: Driving the golden spike. Ag Biotech Net 1: January, ABN 003.

151. Yu, T.-P., L. Wang, C. K. Tuggle, and M. F. Rothschild. 1999. Mapping genes for fatness and growth on pig chromosome 13: a search in the region close to the pig *PIT1* gene. J. Anim. Breeding & Genet. 116:269-280.

152. Kelly, K. A., N. J. Larsen, S. Marklund, and M. F. Rothschild. 1999. Mapping of two tumor supressor genes in the pig. Anim. Biotech. 112:81-85.

153. Bertani, G., S. Marklund, Z. L. Hu, and M. F. Rothschild. 1999. Rapid Communication: Mapping of the glutathione-peroxidase-5 (GPX5) gene to pig chromosome 7. J. Anim. Sci. 77:2855-2856.

154. Bertani, G., S. Marklund, Z. L. Hu, and M. F. Rothschild. 1999. Rapid Communication: Mapping of the titin (TTN) gene to pig chromosome 15. J. Anim. Sci.77:2857-2858.

155. Helm, J. M., Z. Hu, and M. F. Rothschild. 1999. Rapid Communication: Mapping and genetic analysis of porcine FOSB. J. Anim. Sci. 77:2578-2579.

156. Rothschild, M. F., L. A. Messer, A. Day, R. Wahs, T. Short, O. Southwood, and G. Plastow. 2000. Investigation of the retinol binding protein (RBP4) gene as a candidate gene for litter size in the pig. Mammal. Genome 11:75-77.

157. Malek, M., S. Marklund, C. Dyer, R. Matteri, and M. F. Rothschild. 2000. Linkage mapping of the porcine prepro-orexin gene. Mammal. Genome 11:342-343.

158. Kim, K. S., N. Larsen, T. Short, G. Plastow, and M. F. Rothschild. 2000. A missense variant of the melanocortin 4 receptor (MC4R) gene is associated with fatness, growth and feed intake traits. Mammal. Genome 11:131-135.

159. Gellin, J., S. Brown, J. Graves, M. Rothschild, L. Schook, J. Womack, and M. Yerle. 2000. Comparative gene mapping workshop: Progress in agriculturally important animals. Mammal. Genome 11:140-144.

160. Kim, K. S., N. J. Larsen, and M. F. Rothschild. 2000. Rapid Communication: Linkage and physical mapping of the porcine melanocortin-4 receptor (MC4R) gene. J. Anim. Sci. 78:791-792.

161. Navarro, P., R. K. Christenson, G. Ekhardt, B. Bosworth, J. K. Lunney, M. Rothschild, J. Lemke, and J. E. Butler. 2000. Genetic differences in the frequency of the hinge variants of porcine IgA is breed dependent. Vet. Immunol. Immunopath. 73:287-295.

162. Kim, K. S., E. A. Mendez, S. Marklund, A. C. Clutter, D. Pomp, and M. F. Rothschild. 2000. Rapid Communication: Linkage mapping of the porcine Agouti gene. J. Anim. Sci. 78:1395-1396.

163. Grindflek, E., H. Sundvold, S. Lien, and M. F. Rothschild. 2000. Rapid Communication: Physical and genetic mapping of the peroxisome proliferator activated receptor (PPAR) gene to porcine chromosome 13: J. Anim. Sci. 78:1391-1392.

164. Kim, K. S., S. Marklund, and M. F. Rothschild. 2000. The porcine melanocortin 5 receptor (MC5R) gene: polymorphisms, linkage and physical mapping. Anim. Genet. 31:228-441.

165. Perez-Enciso, M., L. Varona, and M. F. Rothschild. 2000. Computation of identity by descent probabilities conditional on DNA markers via a Monte Carlo Marker Chain method. Genet. Sel. Evol. 32:467-482.

166. Walling, G. A., P. M. Visscher, L. Andersson, M. F. Rothschild, L. Wang, G. Moser, M. A. M. Groenen, J.-P. Bidanel, S. Cepica, A. L. Archibald, H. Geldermann, D. J. de Koning, D. Milan, and C. S. Haley. 2000. Combined analyses of data from QTL mapping studies: Chromosome 4 effects on porcine growth and fatness. Genet.155:1369-1378.

167. Marklund, S., C. K. Tuggle, and M. F. Rothschild. 2000. Mapping of CYPA1, SSTR1 and TTF1 genes to porcine chromosome 7q enlightens the synteny with human chromosomes 14q and 15q. Anim. Genet. 5:318-21.

168. Ciobanu, D., R. K. Gill, M. F. Rothschild, and N. H. Bell. 2000. Rapid Communication: Porcine vitamin D-25-hydroxylase maps to chromosome 5. J. Anim. Sci. 78:3193-3194.

169. Navarro, P., R. K. Christensen, P. Weber, M. Rothschild, G. Ekhardt, and J. E. Butler. 2000. Porcine IgA allotypes are not equally transcribed or expressed in heterozygous swine. Molec. Immunol. (11):653-64.

170. Linville, R. C., D. Pomp, R. K. Johnson, and M.F. Rothschild. 2001. Candidate gene analysis for loci affecting litter size and ovulation rate in swine. J. Ani. Sci. 79:60-67.

171. Grapes, L., M. Malek, and M. F. Rothschild. 2001. Identification of monozygous twins and microsatellite mutation rate in pigs from QTL linkage analysis data. J. Anim. Breed. Genet. 118:311-316

172. Ciobanu, D. C., A. Nagy, R. Wales, A. E. Day, M. F. Rothschild, and G. S. Plastow. 2001. Genetic variation in two conserved local Romanian pig breeds using type 1 DNA markers. Genet. Sel. Evol. 33:417-432.

173. Malek, M., J. C. M. Dekkers, H. K. Lee, T. J. Baas, and M. F. Rothschild. 2001. A molecular genome scan analysis to identify chromosomal regions influencing economic traits in the pig. I. Growth and body composition. Mammal. Genome 12:637-645.

174. Yu, T.-P., H. S. Sun, S. Wahls, I. Sanchez-Serrano, M. F. Rothschild, and C. K. Tuggle. 2001. Cloning of the full length pit PIT1 (POU1F1) cDNA and a novel alternative PIT1 transcript, and functional studies of their encoded proteins. Animal Biotech. 12(1): 1-19.

176. Yim, D., H.-B. Jie, J. Sotiriadis, Y.-S. Kim, K. S. Kim, M. F. Rothschild, L. L. Lanier, and Y. B. Kim. 2001. Molecular cloning and characterization of porcine immunoreceptor DAP10 and NKG2D. Immunogenetics 53:243-249.

177. Ciobanu, D. C., J. Bastiaansen, M. Malek, J. Helm, J. Woollard, G. S. Plastow, and M. F. Rothschild. 2001. Evidence for new alleles in the protein kinase AMP-activated, subunit gene associated with low glycogen content in pig skeletal muscle and improved meat quality. Genetics 159:1151-1162.

178. Kim, K. S., D. Ciobanu, G. Plastow, and M. F. Rothschild. 2001. Mapping of the porcine agouti-related protein (AGRP) gene to chromosome 6. Anim. Genet. 32:316-317.

179. Woollard, J. R. and M. F. Rothschild. 2001. Assignment of the porcine calpain-10 gene (CAPN10) to chromosome 15q23-26. Animal Genetics 32:390-393.

180. Lee, H., J. C. M. Dekkers, M. Malek, R. L. Fernando, M. Soller and M. F. Rothschild. 2002. Comparison of approaches for determining significance threshold values for QTL mapping. Genetics 161: 905-914.

181. Grapes, L., and M. F. Rothschild. 2002. BMP15 maps to the X chromosome in swine. Animal Genetics 33:158-159.

182. Grapes, L., Y. Zhang, and M. F. Rothschild. 2002. Rapid communication: Physical and linkage mapping of the porcine connexin 37 (CX37) gene. J. Anim. Sci. 80:1375-1376.

183. Huff-Lonergan, E., T. J. Baas, M. Malek, J. C. M. Dekkers, K. Prusa, and M. F. Rothschild. 2002. Correlations among selected pork quality traits. J. Anim. Sci. 80:617-627.

184. Kim, K. S., Y. D. Zhang, D. Yim, Y. B. Kim, and M. F. Rothschild. 2002. Rapid Communication: Linkage mapping of the porcine immunoreceptor DAP10 and NKG2D. J Anim. Sci. 80: 1377- 1378.

185. Grindflek, E., G. Plastow, and M. F. Rothschild. 2002. Mapping and investigation of the porcine major insulin sensitive glucose transport (SLC2A4/ GLUT4) gene as a candidate gene for meat quality and carcass traits. J Anim. Breeding Genet. 119:47-55.

186. Sherwood, J, D. Ciobanu, and M. F. Rothschild. 2002. Rapid Communication. Mapping of the Beta Tropomyosin (TPM2) gene to pig chromosome 1. J. Anim. Sci. 80: 1379-1380.

187. Ciobanu, D. C., Y. Zhang and M. F. Rothschild. 2002. Rapid Communication. Mapping of the Ca^{+2} ATPase of fast twitch 1 skeletal muscle sarcoplasmic reticulum gene to porcine chromosome 3. J. Anim. Sci. 80: 1386- 1387.

188. Holz, D. R., J. Helm, Y. D. Zhang and M. F. Rothschild. 2002. Rapid Communication. Linkage and physical mapping of the porcine basic firbroblast growth factor (FGF2) gene. J. Anim. Sci. 80: 1384- 1385.

189. Shi, X.-W., Y. D. Zhang, M. F. Rothschild and C. K. Tuggle. 2002. Rapid Communication: Genetic linkage and physical mapping of the porcine cholesteryl ester transferase protein (CETP) gene. J. Anim. Sci. 80: 1390- 1391.

190. Neil, J. E., S. E. Vleck, J. M. Helm, D. C. Ciobanu, and M. F. Rothschild. 2002. Rapid communication: Physical and linkage mapping of the porcine calcitonin (CALC) gene. J. Anim. Sci. 80:1700-1701

191. Yim, D., H.-B. Jie, J. Sotiriadis, K. S. Kim, S-C. Chin, H-B. Jie, M. F. Rothschild and Y. B. Kim. 2002. Molecular cloning and expression pattern and chromosomal mapping of CD69. Immunogenetics 54:276-281.

192. Ramos, A. M., J. M. Helm, Y. D. Zhang, T. Rangel-Figueierdo, and M. F. Rothschild. 2002. Linkage and physical mapping of the porcine thyroglobulin (TG) gene. Animal Genetics 33:228-229.

193. Bidanel, J. P. and M. F. Rothschild. 2002. Current status of quantitative trait locus mapping in pigs. Pig News and Information 23(2):39N-53N

194. Rothschild, M. F. 2003. Advances in pig genomics and functional gene discovery. Comp. Funct. Genom. 4:266-277.

195. Tuggle, C. K., J. A. Green, C. Fitzsimmons, R. Woods, R. S. Prather, S. Malchenko, M. B. Soares, D. Tack, N. Robinson, B. O'Leary, T. Scheetz, T. Casavant, D. Pomp, J. B. Edeal, Y. Zhang, M. F. Rothschild, K. Garwood, W. Beavis .2003. EST-based gene discovery in pig: Virtual expression patterns and comparative mapping to human. Mammal. Genome 14:565-579

196. Zhao, H., M. F. Rothschild, R. L. Fernando, J. C. M. Dekkers. 2003. Tests of candidate genes in QTL mapping resource populations. Mammal. Genome 14:472-482.

197. Rothschild, M. F. 2003. From a sow's ear to a silk purse: Real progress in porcine genomics. Cytogenetics and Genome Research 102: 95-99

198. Rothschild, M. F. 2003. Approaches and challenges in measuring genetic diversity in pigs. Archivos de Zootecnia 52:129-135.

199. Ramos, A. M., R. Mestre, S. Gouveia, G. Evans, Y. Zhang, A. Cardoso, M. F. Rothschild, G. Plastow, T. Rangel-Figueiredo. 2003. Use of type I DNA markers for initial genetic characterization of two Portuguese swine breeds. Archivos de Zootecnia 52:255-264.

200. Pita, R. H., A. M. Ramos, P. S. Lopes, S. E. F. Guimaraes, and M. F. Rothschild. 2003. Assignment of the porcine peptide YY gene to chromsome 12. Anim. Genet. 34:469.

201. Pita, R. H., A. M. Ramos, P. S. Lopes, S. E. F. Guimaraes, and M. F. Rothschild. 2003. Mapping of the porcine peroxisome proliferator activated receptor alpha gene to chromosome 5. Anim. Genet. 34:469-470.

202. Kim, K. S., J. M. Reecy, W. H. Hsu, L. L. Anderson, and M. F. Rothschild 2004. Functional and phylogenetic analyses of a melanocortin-4 receptor mutation in domestic pigs. Domestic Animal Endocrinology 26:75-86.

203. Grindflek, E, N. Hoen, H. Sundvold, M. F Rothschild, G. Plastow, and S. Lien. 2004. Investigation of a Peroxisome Proliferator Activated Receptor gamma (*PPARG*) haplotype effect on meat quality and carcass traits in pigs. Anim. Genet. 35:238-241.

204. Stalder, K. J., N. Knauer, T. J. Baas, M. F. Rothschild, and J. W. Mabry. 2004. Sow longevity. Pig News and Information 25:53N-74N

205. Kim, K. S., J. J. Kim, J. C. M. Dekkers, and M. F. Rothschild. 2004. Polar overdominant inheritance of a DLK1 polymorphism is associated with growth and fatness in pigs. Mammal. Genome 15:552-559.

206. Fernando, R. L., D. Nettleton, B. R. Southey, J. C. M. Dekkers, M. F. Rothschild, and M. Soller. 2004. Controlling the proportion of false positives (PFP) in a multiple test situation. Genetics 166:61-619.

207. Grapes, L., J. C. M. Dekkers, M. F. Rothschild, and R. L. Fernando. 2004. Comparing linkage disequilibrium-based methods for fine mapping quantitative trait loci. Genetics 166:1561-1570.

208. Rothschild, M. F. 2004. Porcine genomics delivers new tools and results: This little piggy did more than just go to market. Genetical Research 83:1-6.

209. Ciobanu, D. C., J. W. M. Bastiaansen, S. M. Lonergan, H. Thomsen, J. C. M. Dekkers, G. S. Plastow, and M. F. Rothschild. 2004. New alleles in calpastatin gene are associated with meat quality traits in pigs. J. Anim. Sci. 82:2829-2839.

210. Thomsen, H., J. C. M. Dekkers, H. K. Lee, and M. F. Rothschild. 2004. Characterization of quantitative trait loci for growth and meat quality in a cross between commercial breeds of swine. J. Anim. Sci. 82:2213-2228.

211. Moller, M., F. Berg, J. Riquet, D. Pomp, A. Archibald, S. Anderson, K. Feve, Y. Zhang, M.F. Rothschild, D. Milan, L. Andersson and C.K. Tuggle. 2004. High-resolution comparative mapping across pig chromosome 4 (SSC4), emphasizing the FAT1 region. Mammal. Genome 15:717-731.

212. Gaboreanu, A. M., L. Grapes, A. M. Ramos, J.-J. Kim and M. F. Rothschild. 2004. Characterization of an X-chromosome PCR-RFLP marker associated with fat deposition and growth in the pig. Anim. Genet. 35: 401-403.

214 Kim, K.S., H. Thomsen, J. Bastiaansen, N. T. Nguyen, J. C. M. Dekkers, G. S. Plastow, and M. F. Rothschild. 2004. A Comparative Study of Obesity QTL and Candidate Genes in the Pig: a Model Organism for Human Obesity. Obesity Research 12:1981-1984.

215 Hu, Z.-L., K. Glenn, A. M. Ramos, C. J. Otieno, and M. F. Rothschild. 2005. Expeditor: A pipeline for designing pig primers using human gene structure and pig EST information. J. Heredity 96:1-3

216 Stalder, K. J., M. F. Rothschild, and S. M. Lonergan. 2005. Associations between two gene markers and indicator traits affecting fresh and dry-cured ham processing quality. Meat Science 69:451-457.

217 Otieno, C. J., J. Bastiaansen, A. M. Ramos, M. F. Rothschild. 2005. Mapping and association studies of diabetes related genes in the pig. Anim. Genet. 36:36-42.

218 Wilke, V.L., Conzemius, M.G., Rothschild, M.F. 2005. SNP association analyses in candidate genes for rupture of the cranial cruciate ligament in the dog. Animal Genetics 36:519-520

219 Schook, L., C. Beattie, J. Beaver, S. Donovan, R. Jamison, S. Neimi, M.F. Rothschild, M. Rutherford, D. Smith and F. Zuckermann. 2005. Swine in biomedical research: Creating the building blocks of animal Models. Animal. Biotechnology 16: 183-190

220 Vincent, A.L., B. J. Thacker, P. G. Halbur, M. F. Rothschild, and E. L. Thacker. 2005. The in vitro susceptibility of machrophages to porcine reproductive and respiratory syndrome virus varies between genetically diverse lines of pigs Virology Immunology 18: 506-512

221 Wilke, V.L., Evans, R.B., Robinson, D.A., Rothschild, M.F., Conzemius, M.G. 2005. Estimate of the annual economic impact of rupture of the cranial cruciate ligament in the dog in the United States. J Am Vet Med Assoc 227:1604-1607

222 Kim J. J., M. F. Rothschild, J. Beever, S. Rodriguez-Saz and J. C. M. Dekkers. 2005. Joint analysis of two breed cross populations in pigs to improve detection and characterization of quantitative trait loci. J. Anim. Sci.83:1229-1240.

223 Hu, Z.L., S. Dracheva, W. Jang, D. Maglott, J. Bastiaansen, M. F. Rothschild and J.Reecy. 2005. A QTL resource and comparison tool for pigs: PigQTLDB. Mammalian Genome 15:792-800

224 Bünger L., R. M. Lewis, M. F. Rothschild, A. Blasco, U. Renne, and G. Simm. 2005. Relationships between quantitative and reproductive fitness traits in animals. Philosophical Transactions of the Royal Society Biological Sciences 360:1489-1502.

225 Demeure, O., D. Pomp, M. F. Rothschild, D. Milan, and C. K. Tuggle. 2005. Large-scale EST mapping improves the comparative maps for SSC1 and SSC7 with the human genome. Animal Genetics 36:381-389.

226 Glenn K. L., L. Grapes, T. Suwanasopee, D. L. Harris, Y. Li, K. Wilson, and M. F. Rothschild. 2005. SNP analysis of *alpha-AMY* and *CTSL* genes in *Litopenaeus vannamei* and *Penaeus monodon* shrimp. Animal Genetics 36:235-236

227 Kim, J. J, H. Thomsen, K. S. Kim, M. F. Rothschild and J. Dekkers. 2005. A least squares regression model to detect quantitative trait loci with polar overdominance in a cross of outbred breeds. Genetical Research 85: 235-248

228 Wilke, V.L., Conzemius, M.G., Kinghorn, B.P., Macrossan, P.E., Weiguo, C., Max F. Rothschild. 2006. Predicting the inheritance of rupture of the cranial cruciate ligament in the Newfoundland dog. J Am Vet Med Assoc. 228: 61-64.

229 Vincent, A.L., B. J. Thacker, P. G. Halbur, M. F. Rothschild, and E. L. Thacker. 2006. An investigation of susceptibility to porcine reproductive and respiratory syndrome virus between two genetically diverse commercial lines of pigs. J. Animal Science 84:49-57.

230 Grapes, L., M. Z. Firat, J. C. M. Dekkers, M. F. Rothschild, R. L. Fernando. 2006. Optimal haplotype structure for linkage disequilibrium-based fine mapping of quantitative trait loci. Genetics 172-1955-1965.

231 Opriessnig T., M. Fenaux, P. Thomas, M. J. Hoogland, M. F. Rothschild, X. J. Meng, and P. G. Halbur. 2006. Evidence of breed-dependent differences in susceptibility to porcine circovirus type 2-associated disease and lesions. Veterinary Pathology 43:281-293.

232 Maneeruttanarungroj, C., S. Pongsomboon, S. Wuthisuthimethavee, S. Klinbunga, K.J. Wilson, J. Swan, Y.Li, V. Whan, K-H. Chu, C.P. Li, J. Tong, K. Glenn, M. Rothschild, D. Jerry and A. Tassanakajon. 2006. Development of polymorphic expressed sequence tag-derived microsatellites for the extension of the genetic linkage map of the black tiger shrimp (*Penaeus monodon*). Anim Genetics 37:263-368.

233 Yu, M., B. Geiger, N. Deeb, and M. F. Rothschild. 2006. Liver X receptor alpha and beta genes have the potential role on loin lean and fat content in pigs. J. Anim. Breed. Genet. 123:81-88

234 Mote, B.E. and M.F. Rothschild. 2006. SNP detection and linkage mapping of pig genes involved in growth. Animal Genetics 37:295-296

235 Ramos, A. J. Helm, J. Sherwood, D. Rocha and M.F. Rothschild. 2006. Mapping of 21 genetic markers to a QTL region for meat quality on pig chromosome 17. Animal Genetics. 37:296-297

236 Grapes, L. S. Rudd, R. L. Fernando,K . Meg, D. Rocha and M. F. Rothschild 2006. Prospecting for pig SNPs in the human genome: have we struck gold? J. Animal. Breed Genet. 123:145-151

237 Motodiev, S., B. Mote and M. F. Rothschild. 2006. Mapping of the porcine CCS and CCR7 genes Bulgarian Journal of Agricultural Science 12:153-157.

238 Hittmeier, L.J., L. Grapes, R.L. Lensing, M.F. Rothschild, C.H. Stahl. 2006. Genetic Background Influences Response to Dietary Phosphorous Restriction. J Nutritional Biochemistry17:385-395

239 Yu, M. Y. Cheung and M.F. Rothschild. 2006. SNP analysis of moulting genes in *Peneaus monodon* and *Liteopeneaus vannemai* shrimp. An Breed Archives 4:411-412

240 Van Cleave, P. K.L. Glenn, B.E. Mote and M.F. Rothschild. 2006. Mapping of CARD to pig chromosome 18. An Breed Archives 5:517-518.

241 Mote, B. and M.F. Rothschild. 2006**.** Cracking the Genomic Piggy Bank: Identifying Secrets of the Pig Genome. Genome Dynamics 2:86-96.

242 Grapes, L. and M.F. Rothschild. 2006. Investigation of a QTL region for loin eye area and fatness on pig chromosome 1. Mammalian Genome 17: 657-668.

243 Nguyen, V.C., K.L. Glenn, B.E. Mote and M.F. Rothschild. 2006. Mapping of ACE to pig chromosome 12. An Breed Archives 6:617-618.

244 Kollers, S., B. Mote, M.F. Rothschild, G.S. Plastow and and D. Rocha. 2006. Single nucleotide polymorphism identification, linkage and radiation hybrid mapping of the porcine pituitary adenylate cyclase-activating polypeptide type I receptor gene to chromosome 18. J. An Breed Genet 123:414-418

245 Rothschild, M.F., P. S. Van Cleave, K. L. Glenn, L. P. Carlstrom and N. M. Ellinwood. 2006. Association of MITF with white spotting in Beagle crosses and Newfoundland dogs. Animal Genetics 37:606-607.

246 Ott, G., R. Roche, H. Looft, L. Thoelking, P.W. Knap, M.F. Rothschild, G.S. Plastow and E. Kalm. 2006. Associations of DNA markers with meat quality traits in pigs with emphasis on drip loss. Meat Sci 75:185-195.

247 Glenn, K, L., A. M. Ramos, and M.F. Rothschild. 2007. Analysis of FMO genes and off flavor in pork. J. An Breed and Genetics 124:35-38

248 Qu, A., M.F. Rothschild and C.H. Stahl. 2007. Effect of dietary phosphorus and its interaction with genetic background on global gene expression in porcine muscle. J. An Breeding and Genetics 124:214-224

249 Guimaraes, S., M. F Rothschild, C. H Stahl, and S. M. Lonergan. 2007. SNP discovery, expression and association analysis for the *SDHD* gene in pigs. J. An Breed and Genetics 124:246-253

250 Hart, E.A., M. Caccamo, J.L. Harrow, S. Humphray, J. G.R. Gilbert, S. Trevanion, T. Hubbard, J. Rogers and M.F. Rothschild. 2007. Lessons learned from the initial sequencing of the pig genome: comparative analysis of an 8 MB region of pig chromosome 17. Genome Biology 8: R168.

251 Huang, T.H., B. Fan, M. F. Rothschild, Z.-L. Hu, K. Li, S.-H. Zhao. 2007. MiRFinder: an improved approach and software implementation for genome-wide fast microRNA precursor scans. BMC Bioinformatics :341.

252 Ramos, A.M. T. V. Serenius, K. J. Stalder, and M. F. Rothschild. 2007. Phenotypic correlations among processing quality traits of fresh and dry-cured hams. Meat Sci 77:182-189.

253 Yu, M., B. Geiger, N. Deeb and M.F. Rothschild. 2007. Investigation of *TXNIP* (Thioredoxin-Interacting Protein) and *TRX* (Thioredoxin) Genes for Growth-Related Traits in Pigs. Mammal Genome 18:197-209

254 Guimaraes, S.E.F., C. H. Stahl, S. M. Lonergan, B. Geiger, and M. F. Rothschild. 2007. Myostatin promoter analysis and expression pattern in pigs. Livestock Prod Sci 112:143-150

255 Jiang, Z., S. Pappu and M.F. Rothschild. 2007. Hitting the jackpot twice: identifying and patenting gene tests related to muscle lipid accumulation for meat quality in animals and Type 2 diabetes/obesity in humans. Recent patents on DNA &Gene Sequences 1:100-111.

256 Jiang, Z. and M.F. Rothschild. 2007. Swine genome science comes of age. Int. J. Biol. Sci. 3: 129-131.

257 Rothschild, M.F., Z.H. Hu and Z. Jiang. 2007. Advances in QTL mapping in pigs. Int. J. Biol. Sci. 3: 192-197.

258 Do, K. T., Y. Ha, B. E. Mote, M. F. Rothschild, B. H. Choi, S. S. Lee, T. H. Kim, B. W. Cho, K. S. Kim. 2008 Investigation of single nucleotide polymorphisms in porcine chromosome 2 quantitative trait loci for meat quality traits. Asian-Aust. J. Anim. Sci. 21: 155-160

259 Li, X., Z-L. Hu, K. Do, S. Moon, Y. Ha, H. Kim, B-H. Choi, M.F. Rothschild, J. M. Reecy, and K-S. Kim. 2008. Development and characterization of an in silico coding gene SNP map in pigs. Anim. Genet. 39: 446-450.

260 Yu, M., Max F. Rothschild, J. Yang, S.H. Zhao, K. Li. 2008. Linkage mapping of five genes on SSC12 in a Berkshire × Yorkshire cross. Archive of Animal Breeding. 51:89-91

261 Fan, B., K.L. Glenn, B. Geiger, A. Mileham, and M.F. Rothschild. 2008. Investigation of QTL regions on chromosome 17 for genes associated with meat color in the pig. J. Anim. Breed. Genet. 125: 240-247

262 Ramos, A. M., K. L. Glenn, T. V. Serenius, K. J. Stalder, and M. F. Rothschild. 2008. Genetic markers for the production of US Country Hams. Meat Sci 125:1-10.

263 Rothschild, M.F. and G.S. Plastow. 2008. Impact of genomics in animal agriculture and opportunities for animal health. Trends in Biotechnology. 26:21-25.

264 Li, X.P., K. T. Do, J.-J. Kim, J. Huang, S. H. Zhao, Y. Lee, M. F. Rothschild, C. K. Lee and K. S. Kim. 2008. Molecular characteristics of the porcine DLK1 and MEG3 genes Animal Genetics 39:189-192

265 Onteru, S.K., B. Fan, M.F. Rothschild. 2008. SNP detection and comparative linkage mapping of 66 bone-related genes in the pig. Cytogenet. Genome Res. 122:122-131.

266 Onteru, S.K., B. Mote, T. Serenius, M. Nikkilae, K. J. Stalder, M.F. Rothschild. 2008. SNP discovery in genes affecting leg health traits in pigs. Pinard M-H, Gay C, Pastoret P-P, Dodet B (Eds): Animal Genomics for Animal Health. Dev Biol (Basel). Basel, Karger, 132: 337-342

267 Du, Z.-Q., B. Fan, X. Zhao, R. Amoako, and M. F. Rothschild. 2009. Association analyses between type 2 Diabetes genes and obesity traits in pigs. Obesity (Silver Spring). 17:323-329

268 Mote, B.E., J. W. Mabry, K .J. Stalder, and M. F. Rothschild. 2009. Current commercial sows: reproduction, culling, and mortality. Professional Animal Scientist 25:1-7

269 Schwab, C.R., B. E. Mote, Z. Du, R. Amoako, T. J. Baas, and M. F. Rothschild. 2009. An evaluation of four candidate genes for use in selection programs aimed at increased intramuscular fat in Duroc swine. J. Animal Breed and Genet. 128:228-236

270 Doeschl-Wilson, A.B., I. Kyriazakis, A. Vincent, M. F. Rothschild, E. Thacker, and L. Galina-Pantoja. 2009. Clinical and pathological responses of pigs from two genetically diverse commercial lines to porcine respiratory and reproductive syndrome virus infection. J. Anim. Sci. 87: 1638-1647.

271 Mote, B.E. K. J. Stalder, and M. F. Rothschild. 2008. Identification of genetic markers for sow productive life in commercial sows. J. Anim. Science 87:2187-2195

272 Gorbach, D.M., Z-L. Hu, Z-Q. Du, M.F. Rothschild. 2009. SNP discovery in Litopenaeus vannamei with a new computational pipeline. A. Genet. 40:106-109

273 Makgahlela, M.L., B. Fan, Z.-Q. Du, and M.F. Rothschild. 2009. Investigation of effects of three candidate genes on leg action and fat deposition traits in pigs. S. Afr. J. Anim. Sci. 39: 127-130.

274 Alexander, L., S. Lonergan, M. F. Rothschild and C. Stahl. 2008. Response to dietary phosphorus deficiency is affected by genetic background in growing pigs. J. Ani. Sci 87:2585-2595.

275 Wilke, V.L., S. Zhang, R. B. Evans, M. G. Conzemius, and M.F. Rothschild. 2009. Identification of chromosomal regions associated with cranial cruciate ligament rupture in a population of Newfoundland dogs. Am. J. Vet. Res. 70: 1013-1017.

276 Zhao, X., Z.-Q. Du, N. Vukasinovic, F. Rodriguez, A.C. Clutter, and M.F. Rothschild. 2009. Biological candidate gene analyses identify that HOXA10 and MMP2 are associated with scrotal hernias in pigs. Am. J. Vet Res. 70: 1006-1012.

277 Fan, B., S. K. Onteru, B. Mote, T. Serenius, K. J. Stalder, and M. F. Rothschild. 2009. Large-scale association study for structural soundness and leg locomotion traits in the pig. Genet. Sel. Evol. 41:14.

278 Fan, B., S.K. Onteru, G.S. Pastow, and M.F. Rothschild. 2009. Detailed characterization of the porcine MC4R gene in relation to fatness and growth. Anim. Genet. 40:401-409

279 Guo,Y.M., H.S. Ai, J. Ren, G.J. Wang, Y. Wen, H.R. Mao, L.T. Lan, J.W. Ma, B. Brenig, M.F. Rothschild, C.S. Haley, and L.S. Huang. 2009. A whole genome scan for quantitative trait loci for leg weakness and its related traits in a large F2 intercross population between White Duroc and Erhualian. J. Anim. Sci. 87:1569-1575.

280 Qiu, H., X. Xu, B. Fan, M.F. Rothschild, Y. Martin, and B. Liu. 2009. Investigation of LDHA and COPB1 as candidate genes for muscle development in the MYOD1 region of pig chromosome 2. Mol. Biol. Rep. 2009 Oct 16. [Epub ahead of print].

281 Ramos, A.M., R.H. Pita, M. Malek, P.S. Lopes, S.E.F. Guimarães, and M.F. Rothschild. 2009. Analysis of the mouse high-growth region in pigs. J. Anim. Breed. Genet. 126: 404-412.

282 Steibel, J.P., M.Wysockic, J.K. Lunneyc, A.M. Ramosa, Z.L. Hu, M.F. Rothschild, and C.W. Ernst. 2009. Validation of the swine protein-annotated oligonucleotide microarray. Anim. Genet. 40: 883- 893

283 Opriessnig, T., A.R. Patterson, D.M. Madson, N. Pal, M.F. Rothschild, D. Kuhar, J. Lunney, N.M. Juhan, X.J. Meng, and P.G. Halbur. 2009. Severity of PCV2-associated lesions differs in selected Landrace and Pietrain pigs confirming a genetic component for expression of PCV2-associated disease. J. Anim. Sci. 47: 1582-1590.

284 Glenn, K. Z.-Q. Du, J. C. Eisenmann and M.F. Rothschild 2009 An Alternative Method for Genotyping of the *ACE* I/D Polymorphism. Mol. Biol. Reports 36:1305-1310.

285 Onteru, S.K., J.W. Ross, and M.F. Rothschild. 2009. The role of gene discovery, QTL analyses and gene expression in reproductive traits in the pig. Soc. Reprod. Fertil. Suppl. 66: 87-102.

286 Onteru, S.K., B. Fan, and M.F. Rothschild. 2009. The MMP2 gene may be associated with longissimus dorsi muscle area in the pig (Sus scrofa). J. Appl. Genet. 50: 251-252.

287 Xu, X.W., H.F. Qiu, Z.Q. Du, B. Fan, F. Yuan, M.F. Rothschild, and B. Liu. 2009. Porcine *CSRP3*: polymorphism and association analyses with meat quality traits and comparative analyses with *CSRP1* and *CSRP2*. Mol. Biol. Rep. (doi 10.1007/s11033-009-9632-1).

288 Ramos, A.M., R.P. Crooijimans, N.A. Affara, A.J. Amaral, A.L. Archibald, J.E. Beever, C. Bendixen, C. Churcher, R. Clark, P. Dehais, M.S. Hansen, J. Hedegaard, Z.L. Hu, H.H. Kerstens, A.S. Law, H.J. Megens, D. Milan, D.J. Nonneman, G.A. Rohrer, M.F. Rothschild, T.P. Smith, R.D. Schnabel, C.P. Van Tassell, J.F. Taylor, R.T. Wiedmann, L.B. Shook, and M.A. Groenen. 2009. Design of high density SNP genotyping assay in the using SNPs identified and characterized by next generation sequencing technology. PLoS One: e6524.

289 Fan, B., S. K. Onteru, M. T. Nikkilä, K. J. Stalder, and M. F. Rothschild. 2009. Identification of genetic markers associated with both fatness and leg weakness traits in the pig. Anim. Genet. 40: 967-970

290 Fan, B., S. K. Onteru, M. T. Nikkilä, K. J. Stalder, and M. F. Rothschild. 2009. The COL9A1 gene is associated with longissmus muscle area in the pig. Anim. Genet. 40:788.

291 Fan, B., Z.-Q. Du, and M.F. Rothschild. 2009. The Fat mass and obesity-associated (FTO) gene is associated with intramuscular fat content and growth rate in the pig. Anim. Biotech. 20:58-70.

292 Ramos, M., J. B. Bastiaansen, G. Plastow and M. F. Rothschild. 2009. Genes located on a SSC17 meat quality QTL region are associated with growth in outbred pig populations. Anim. Genet. 40: 774-778.

293 Du, Z.-Q., X. Zhao, N. Vukasinovic, F. Rodriguez, A.C. Clutter, and M. F. Rothschild. 2009. Association and haplotype analyses of positional candidate genes in five genomic regions linked to scrotal hernia in commercial pig lines. PLoS one PLoS ONE 4(3): e4837. doi:10.1371/journal.pone.0004837

294 Eisenmann, J.C., M. A. Sarzynski, K. Glenn, M.F. Rothschild, and K. A. Heelan. 2009. ACE I/D Genotype, Adiposity, and Blood Pressure in Children. Cardiovascular Diabetology. 8:14-21

295 Xu, X.L., X.W. Xu, P.W. Pan, K.Li, Z.H. Jiang, M.Yu, M.F. Rothschild, and B. Liu. 2009. Porcine skeletal muscle differentially expressed gene CMYA1: isolation, characterization, mapping, expression and association analysis with carcass traits. Anim. Genet. 40: 255-261

296 Fan, B., S.K. Onteru., and M.F. Rothschild 2009. The GGT1 and IGFBP5 genes are associated with fat deposition traits in the pig. Archiv Tierzucht. 52: 337-339.

297 Fan, B., S. Lkhagvadorj, W. Cai, J. Young, R.M. Smith, J.C.M. Dekkers, E. Huff-Lonergan, S.M. Lonergan, and M.F. Rothschild. 2009. Identification of genetic markers associated with residual feed intake and meat quality traits in the pig. Meat Science. (doi:10.1016/j.meatsci.2009.10.025).

298 Sironen, A.I., P. Uimari, T. Serenius, B. Mote, M. Rothschild, and J. Vilkki. 2009. Effect of polymorphisms in candidate genes on reproduction traits in Finnish pig populations. J. Anim. Sci. 88: 821-827

299 Ampaire, A. and M.F. Rothschild. 2010. Pigs, goats and chickens for rural development: Small holder farmer's experience in Uganda. Livestock Research for Rural Development. Volume 22, Article #102. http://www.lrrd.org/lrrd22/6/ampa22102.htm

300 Ampaire, A. and M.F. Rothschild. 2010. Effects of training and facilitation of farmers in Uganda on livestock development. Livestock Research for Rural Development. Volume 22, Article #130. http://www.lrrd.org/lrrd22/7/ampa22130.htm.

301 Ampaire, A., and M.F. Rothschild. 2011. Differences between men and women farmers' experiences with a livestock development program in Kamuli, Uganda. Livestock Research for Rural Development. Article #052**.** http://www.lrrd.org/lrrd23/3/ampa23052.htm

302 Alexander, L.S., A. Qu, S.A. Cutler, A. Mahajan, M.F. Rothschild, W. Cai, J.C. Dekkers, and C.H. Stahl. 2010. A calcitonin receptor (CALCR) single nucleotide polymorphism is associated with growth performance and bone integrity in response to dietary phosphorus deficiency. J Anim Sci. 88:1009-1016.

303 Archibald, A.L., L. Bolund, C. Churcher, M. Fredholm, M.A. Groenen, B. Harlizius, K.T. Lee, D. Milan, J. Rogers, M.F. Rothschild, H. Uenishi, J. Wang, and L.B. Schook. 2010. Swine Genome Sequencing Consortium. Pig genome sequence--analysis and publication strategy. BMC Genomics. 11:438.

304 Du, Z.Q., D.C. Ciobanu, S.K. Onteru, D. Gorbach, A.J. Mileham, G. Jaramillo, and M.F. Rothschild. 2010. A gene-based SNP linkage map for pacific white shrimp, Litopenaeus vannamei. Anim Genet. 41:286-294.

305 Fan, B., S. Lkhagvadorj, W. Cai, J. Young, R.M. Smith, J.C. Dekkers, E. Huff-Lonergan, S.M. Lonergan, and M.F. Rothschild. 2010. Identification of genetic markers associated with residual feed intake and meat quality traits in the pig. Meat Sci. 84:645-650.

306 Fan, B., Z.-Q. Du, D.M. Gorbach, and M.F. Rothschild. 2010. Development and application of high-density SNP arrays in genomic studies of domestic animals. Asian-Australasian Journal of Animal Science. 23:833-847.

307 Gorbach, D.M., M.L. Makgahlela, J.M. Reecy, S.J. Kemp, I. Baltenweck, R. Ouma, O. Mwai, K. Marshall, B. Murdoch, S. Moore, and M.F. Rothschild. 2010. Use of SNP genotyping to determine pedigree and breed composition of dairy cattle in Kenya. J Anim Breed Genet. 127:348-351.

308 Gorbach, D., B. Mote, L. Totir, R. Fernando, and M.F. Rothschild. 2010. Polydactyl inheritance in the pig. Journal of Heredity. 101:469-475.

309 Gorbach, D.M., Z.L. Hu, Z.-Q. Du, and M.F. Rothschild. 2010. Mining ESTs to determine the usefulness of SNPs across shrimp species. Anim Biotechnol. 21:100-103.

310 Marti, S. M., S. K. Onteru, Z.-Q. Du, M. F. Rothschild. 2010. SNP analyses of the 5HT1R and STAT genes in Pacific white shrimp, Litopenaeus vannamei. Spanish J. Agri. Res. 8: 53-55.

311 Onteru, S. K., A. Aampire, M. F. Rothschild. 2010. Biotechnology developments in developing countries. Biotechnol. Genet. Eng. Rev. 27: 1-12.

312 Qiu, H., X. Xu, B. Fan, M.F. Rothschild, Y. Martin, and B. Liu. 2010. Investigation of LDHA and COPB1 as candidate genes for muscle development in the MYOD1 region of pig chromosome 2. Mol Biol Rep. 37:629-636.

313 Renaville, B., E. Piasentier, B. Fan, M. Vitale, A. Prandi, and M.F. Rothschild. 2010. Candidate gene markers involved in San Daniele ham quality. Meat Sci. 85:441-445.

314 Sarzinski, M.A., J.C. Eisenmann, G. Welk, J. Tucker, K. Glenn, M.F. Rothschild, and K. Heelan. 2010. ACE I/D, physical activity, and blood pressure in children. Pediatric Exercise Science 22(2):301-13.

315 Xu, X., H. Qiu, Z.Q. Du, B. Fan, M.F. Rothschild, F. Yuan, and B. Liu. 2010. Porcine CSRP3: polymorphism and association analyses with meat quality traits and comparative analyses with CSRP1 and CSRP2. Mol Biol Rep. 37:451-459.

316 Zhao, X., Z.Q. Du, and M.F. Rothschild. 2010. An association study of 20 candidate genes with cryptorchidism in Siberian Husky dogs. J Anim Breed Genet. 127:327-331.

317 Fan, B., D.M. Gorbach, and M.F. Rothschild. 2011. The pig genome project has plenty to squeal about. Cytogenetic and Genome Research. 134:9-18..

318 Peng, Y.B., B. Fan, X.L. Han, X.W. Xu, M.F. Rothschild, M. Yerle, and B. Liu. 2011. Molecular characterization of the porcine JHDM1A gene associated with average daily gain: evaluation its role in skeletal muscle development and growth. Mol Biol Rep. 38:4697–4704

319 Fan, B., S. Onteru, Z-Q. Du, D. Garrick, K. Stalder, M. Rothschild. 2011. Genome-Wide association study identifies loci for body composition and structural soundness traits in pigs. PloS One 24, e14726.

320 Hu, Z.-L., A.M. Ramos, S.J. Humphray, J. Rogers, J.M. Reecy, and M.F. Rothschild. 2011. Use of Genome Sequence Information for Meat Quality Trait QTL Mining for Causal Genes and Mutations on Pig Chromosome 17. Frontiers in Genetics. DOI=10.3389/fgene.2011.00043.

321 Lunney, J.K., J.P. Steibel, J.M. Reecy, E. Fritz, M.F. Rothschild, M. Kerrigan, B. Trible, and R.R. Rowland. 2011. Probing genetic control of swine responses to PRRSV infection: current progress of the PRRS host genetics consortium. BMC Proc. Suppl 4:S30.

322 Onteru, S.K., B. Fan, M. T. Nikkilä, D.J. Garrick, K.J. Stalder, and M.F. Rothschild. 2011. Whole genome association analyses for sow lifetime reproduction traits. J. Anim. Sci. 988-995

323 Zhao, X., K.E. Dittmer, H.T Blair, K.G. Thompson, M.F. Rothschild, and D.J. Garrick. 2011. A novel nonsense mutation in the *DMP1* gene identified by a genome-wide association study is responsible for inherited rickets in Corriedale sheep. PLoS ONE 6: e21739.

324 Zhao, S.K. Onteru, K.E. Dittmer, K. Parton, H.T. Blair, M.F. Rothschild and D.J. Garrick. 2012. A missense mutation in AGTPBP1 was identified in sheep with a lower motor neuron disease. Heredity 109: 156-152.

325 Zhao, X., S.K. Onteru, S. Piripi, K.G. Thompson, H.T. Blair, D.J. Garrick and M.F. Rothschild. 2012. In a shake of a lamb's tail: using genomics to unravel a cause of chondrodysplasia in Texel sheep. Anim Genet. 43 Suppl 1: 9-18.

326 Groenen, M.A., A.L. Archibald, H. Uenishi, C.K. Tuggle, Y. Takeuchi, M.F. Rothschild, C. Rogel-Gaillard, et al. 2012. Analyses of pig genomes provide insight into porcine demography and evolution. Nature. 491:393-398.

327 Liu, X.L., S.B. Yang, M.F. Rothschild, Z.W. Zhang and B.Fan. 2012. Genome-wide association study of total number born and number born alive in pigsusing both compressed mixed linear model and Bayes model. Yi Chuan. 34:1261-1270. (Chinese).

328 Onteru, S.K., B. Fan, Z.Q. Du, D.J. Garrick, K.J. Stalder and M.F. Rothschild. 2012. A whole-genome association study for pig reproductive traits. Anim Genet. 43:18-26.

329 Yang, C.X., Z.Q. Du, E.C. Wright, M.F. Rothschild, R.S. Prather and J.W. Ross. 2012. Small RNA profile of the cumulus-oocyte complex and early embryos in the pig. Biol Reprod. 87:117.

330 Renaville B., A. Prandi, B. Fan, A. Sepulcri, M.F. Rothschild, and E. Piasentier. 2013. Candidate gene marker associations with fatty acids profiles in heavy pigs. Meat Science 93:495-500.

331 Du, Z.Q., C.X. Yang, M.F. Rothschild and J.W. Ross. 2013. Novel expanded microRNA families in the human Genome. ***BMC Genomics.*** 14:98 doi:10.1186/1471-2164-14-98

332 Nikkilä, M. T., K. J. Stalder, B. E. Mote, M. F. Rothschild, F. C. Gunsett, A. K. Johnson, L. A. Karriker, M. V. Boggess, and T. V. Serenius. 2013. Genetic parameters for growth, body composition, and structural soundness traits in commercial gilts. J. Anim. Sci. 91:2034–2046.

333 Nikkilä, M. T., K. J. Stalder, B. E. Mote, M. F. Rothschild, F. C. Gunsett, A. K. Johnson, L. A. Karriker, M. V. Boggess, and T. V. Serenius. 2013. Genetic associations for gilt growth, compositional, and structural soundness traits with sow longevity and lifetime reproductive performance. J. Anim. Sci. 91:1570–1579.

334 Onteru, S.K., D.M. Gorbach, J.M. Young, J.C.M. Dekkers, D.J. Garrick and M.F. Rothschild. 2013. Whole genome association studies of residual feed intake and related traits in the pig. PloSOne DOI: 10.1371/journal.pone.0061756

335 Renaville B., A. Prandi, B. Fan, A. Sepulcri, M.F. Rothschild, and E. Piasentier. 2013. Candidate gene marker associations with fatty acids profiles in heavy pigs. Meat Science 93:495-500.

336 Tart J.K., R.K. Johnson, J.W. Bundy, N.N. Ferdinand, A.M. McKnite, J.R. Wood, P.S. Miller, M.F. Rothschild, M.L. Spangler, D.J. Garrick, S.D. Kachman, D.C. Ciobanu. 2013. Genome-wide prediction of age at puberty and reproductive longevity in sows, Animal Genetics, Aug;44(4):387-97. doi: 10.1111/age.12028.

337 Du, Z-Q, C. J. Eisley, S. K. Onteru, O. Madsen, M. A.M. Groenen, J. W. Ross, and M. F. Rothschild 2014. Identification of species-specific novel transcripts in pig reproductive tissues using RNA-seq. Anim. Genetics. 45:198-204.

338 McKnite, A.M., J.W. Bundy, T.W. Moural, J.K. Tart, T.P. Johnson, E.E. Jobman, S.Y. Barnes, J.K. Qiu, D.A. Peterson, S.P. Harris, M.F. Rothschild, J.A. Galeota, R.K. Johnson, S.D. Kachman, D.C. Ciobanu. 2014. Genomic analysis of the differential response to experimental infection with Porcine Circovirus 2b, Animal Genetics 45: 205-214.

339 Abell C.A.**,** J. Dekkers**,** M. F Rothschild**,** J. W Mabry **and** K. J Stalder. 2014. Total cost estimation for implementing genome-enabled selection in a multi-level swine production system Genetics Selection Evolution, 46:32 doi:10.1186/1297-9686-46-32

340 Abell, C. E., A. K. Johnson, L. A. Karriker, M. F. Rothschild, S. J. Hoff, G. Sun, R. F. Fitzgerald, and K. J. Stalder. 2014. Using classification tress to detect induced sow lameness with a transient model. Animal 8:1000-1006

341 Coble D.J., D. Fleming, M. E. Persia, C. M. Ashwell, M. F. Rothschild, C. J. Schmidt and S. J Lamont. 2014. RNA-seq analysis of broiler liver transcriptome reveals novel responses to high ambient heat. BMC Genomics **15**:1084 doi:10.1186/1471-2164-15-1084

342 Kugonza D.R., K. J. Stalder and M. F. Rothschild. 2014. Effects of buck and doe size on the growth performance and survival of their progeny Livestock Research for Rural Development 26 (3) 2. http://www.lrrd.org/lrrd26/3/kugo26047.html

343 Zhao X., S. Onteru, M. Saatchi, D. Garrick and M. Rothschild. 2014. A genome-wide association study for canine cryptorchidism in Siberian Huskies J. Anim. Breed. Genet. 131 (2014) 202–209

344 Kim, E. S., and M. F. Rothschild. 2014. Genomic adaptation of admixed dairy cattle in East Africa. Front. Genet. 5:443.

345 Edea Z., M. S. A. Bhuiyan, T. Dessie, M. F. Rothschild, H. Dadi and K. S. Kim. 2014. Genome-wide genetic diversity, population structure and admixture analysis in African and Asian cattle breeds. Animal doi:10.1017/S1751731114002560

346 Rothschild M.F. and G.S. Plastow. 2014. Applications of genomics to improve livestock in the developing world. Livestock Science. http://dx.doi.org/10.1016/j.livsci.2014.03.020i

347 Rothschild M.F. and H. Steinfeld. 2014. Livestock crucial in hunger equation. Science 345: 1254.

348 Walugembe M., G. Nadiope, J. D. Stock, K. J. Stalder, D. Pezo and M. F. Rothschild. 2014. Prediction of live body weight using various body measurements in Ugandan village pigs. Livestock Research for Rural Development 26 (5) 2014 http://www.lrrd.org/lrrd26/5/walu26096.htm

349 Walugembe, M., M.F. Rothschild, and M. Persia. 2014. Effect of dried distiller's grains with solubles on broiler and layer chick performance, energy and fiber digestibility. Animal Feed Science and Technology 188: 46-52.

350 Kim E.S., R.R. Freixedes, R.N. Pena, T. Baas, J. Estany and M.F. Rothschild. 2015 Identification of Signatures of Selection for Intramuscular Fat in Two Duroc Populations. J. Anim. Sci. 93:3292-3302. **(journal cover)**

351 Kim E.S., T.S. Sonstegard, C.P. Van Tassell, G. Wiggans and M.F. Rothschild. 2015. The relationship between runs of homozygosity and inbreeding in Jersey cattle under selection. Plos One 10:e0129967.

352 Kim E.S., T.S. Sonstegard and M.F. Rothschild. 2015. Recent artificial selection in U.S. Jersey cattle impacts autozygosity levels of specific genomic regions. BMC Genomics 16:302.

353 Walugembe, M., J.C.F. Hsieh, N.J. Koszewski, S.J. Lamont, M.E. Persia, and M.F. Rothschild. 2015. Effects of dietary fiber on cecal short-chain fatty acid and cecal microbiota of broiler and laying-hen chicks. Poult. Sci. 94:2351-2359

354 Van Goor, A., K.J. Bolek, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2015. Identification of quantitative trait loci for body temperature, body weight, breast yield, and digestibility in an advanced intercross line of chickens under heat stress. Genet Sel Evol. 47(96): doi 10.1186/s12711-015-0176-7.

355 Kawaler, E., A. Seetharam, Z.-Q. Du, A.J. Severin and M.F. Rothschild, 2015. A comparison of microbiomes of *Litopenaeus vannamei* from disparate geographical locations. Agic. Food Anal. Bacteriol. 5

356 Seetharam, A.R., E. Kawaler, Z.-Q. Du, M.F. Rothschild, A.J. Severin. 2015. Microbiome analyses of pacific white shrimp (*Litopenaeus vannamei*) collected from disparate geographical locations. Genomics Data. 6: 67–69.

357 Sun, L., S.J. Lamont, A. Cooksey, F. McCarthy, C. Fiona, C. Tudor, K.V. Shanker, R. Derita, M.F. Rothschild, C. Ashwell, M.E. Persia, and C. Schmidt. 2015. Transcriptome response to heat stress in a chicken hepatocellular carcinoma cell line. 2015. Cell Stress Chaperones. 20(6):939-50. doi: 10.1007/s12192-015-0621-0. Epub 2015 Aug 5.

358 Davis RVN, SJ Lamont, MF Rothschild, ME Persia, CM Ashwell and CJ Schmidt , 2015 Transcriptome Analysis of Post-Hatch Breast Muscle in Legacy and Modern Broiler Chickens Reveals Enrichment of Several Regulators of Myogenic Growth. PLoS ONE 10(3): e0122525. doi:10.1371/journal.pone.0122525

359 Schmdt C.J., E.M. Pritchett, L. Sun, R.V.N. Davis, A. Hubbard, K.E. Kniel, S.M. Markland, Q. Wang, C. Ashwell, M. Persia, M.F. Rothschild, and S.J. Lamont. 2015. RNA-seq: primary cells, cell lines and heat stress. Cytogenet Genome Res. doi: http://dx.doi.org/10.1101/013979

360 Walugembe, M., P.M. Swantek, M.S. Honeyman, J.W. Mabry, K.J. Stalder and M.F. Rothschild. 2016. Evaluation of growth, deposition of backfat, and loin muscle for purebred Berkshire pigs housed in bedded hoop buildings. J. Anim. Sci. 94:1-5

361 Bertolini F, B. Gandolfi, E.S. Kim, B. Haase, L.A. Lyons and M.F. Rothschild. 2016. Evidence of selection signatures that shape the Persian cat breed. Mamm Gen 27: 144. doi:10.1007/s00335-016-9623-1 **(journal cover)**

362 Thekkoot D.M., J.M. Young, M.F. Rothschild, and J.C.M. Dekkers. 2016. Genome wide association analysis of sow lactation performance traits in lines of Yorkshire pigs divergently selected for residual feed intake during grow-finish. J. Anim Sci 94:2317–2331. doi:10.2527/jas2015-0258

363 Thekkoot D.M., R.A. Kemp, M.F. Rothschild, G.S. Plastow, and J.C.M. Dekkers. 2016 Estimation of genetic parameters for traits associated with reproduction, lactation and efficiency in sows. J. Anim Sci .94:4516–4529. doi:10.2527/jas2015-0255

364 Fleming D.S., J. Koltes; E. Fritz-Waters, J.M., M.F. Rothschild, C.J. Schmidt, C.M. Ashwell, M.E. Persia and S.J. Lamont. 2016. Single nucleotide variant discovery of highly inbred Leghorn and Fayoumi chicken breeds using pooled whole genome resequencing data reveals insights into phenotype differences. BMC Genomics 17:812. DOI: 10.1186/s12864-016-3147-7

365 Abell, C.E., R.L. Fernando, T.V. Serenius, M.F. Rothschild, K.A. Gray, and K.J. Stalder. 2016. Genetic relationship between purebred and crossbred sow longevity. J. Animal Sci and Biotech. **7**:51. DOI: 10.1186/s40104-016-0112-x

366 Kim E.S., A.R. Elbeltagy, A.M. Aboul-Naga, B. Rischkowsky, B. Sayre, J.M.Mwacharo and M.F Rothschild .2016. Multiple genomic signatures of selection in goats and sheep indigenous to a hot arid environment. Heredity 116:255-264.

367 Van Goor A., C.M. Ashwell, M. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2016. Quantitative trait loci identified for blood chemistry components of an advanced intercross line of chickens under heat stress. BMC Genomics 17:287. DOI: 10.1186/s12864-016-2601-x

368 Fleming DS, Koltes JE, Markey AD, Schmidt CJ, Ashwell CM, Rothschild MF, Persia ME, Reecy JM, Lamont SJ. 2016. Genomic analysis of Ugandan and Rwandan

chicken ecotypes using a 600 k genotyping array. BMC Genomics 17:407. doi: 10.1186/s12864-016-2711-5.

369 Rothschild M. F. and G. Plastow. 2016. Applications of Technology for Small Holders´ Livestock to Meet Global Food Production. Ceiba 54: 3-13.

370 Oh, A., Pearce, J.W., Gandolfi, B., Creighton, E.K., Suedmeyer, W.K., Michael Selig, M., Bosiack, A.P., Castaner, L.J., Whiting, R.E.H., Belknap, E.B., Lyons, L.A., and 99 Lives Consortium (including M.F. Rothschild). 2017. Early-Onset Progressive Retinal Atrophy Associated with an IQCB1 Variant in African Black-Footed Cats (Felis nigripes). Scientific Reports **7**, Article number: 43918 doi:10.1038/srep43918

371 Bertolini F., J.C.S. Harding, B. Mote, A. Ladinig, G.S. Plastow and M.F. Rothschild. 2017. Genomic investigation of piglet resilience following porcine epidemic diarrhea outbreaks. Animal Genetics. (In press)

372 Aberdein D, Munday JS, Gandolfi B, Dittmer KE, Malik R, Garrick DJ, Lyons LA; 99 Lives Consortium (including M.F. Rothschild). 2017. A FAS-ligand variant associated with autoimmune lymphoproliferative syndrome in cats. Mamm Genome 28: 47–55

373 Van Goor A., C.M. Ashwell, M. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2017. Unique genetic responses revealed in RNA-seq from the spleen of chickens stimulated with lipopolysaccharide and heat. PLoS ONE 12(2): e0171414. doi:10.1371/journal.pone.0171414

374 TalentI A., F. Bertolini, G. Pagnacco, F. Pilla, P. Ajmone-Marsan M.F. Rothschild, P. Crepaldi, and the Italian Goat Consortium. 2017. The Valdostana goat: a genome-wide investigation of the distinctiveness of its selective sweep regions. Mammalian Genome. 28:114-128. doi: 10.1007/s00335-017-9678-7.

375 Bertolini F., A. Elbeltagy and Rothschild M.F. 2017. Evaluation of the application of bovine, ovine and caprine SNP chips to dromedary genotyping. Livestock Research for Rural Development. 29 (2) http://www.lrrd.org/lrrd29/2/bert29031.html

376 Msalya G., E. S. Kim, E. L. K. Laisser, M. J. Kipanyula, E.D. Karimuribo, L.J. M. Kusiluka, S.W. Chenyambuga and M. F. Rothschild. 2017, Determination of genetic structure and signatures of selection in three strains of Tanzania shorthorn Zebu, Boran and Friesian cattle by genome-wide SNP analyses. PLoS ONE 12(1):e0171088. doi:10.1371/journal.pone.0171088

377 Zurbrigg k., T. van Dreumel, M. F. Rothschild, D. Alves, R. Friendship, T. O'Sullivan. 2017. Pig-level risk factors for in-transit losses in swine: a review. Can J. Ani. Sci: 97 pp. 339-346 https://doi.org/10.1139/cjas-2016-0193

378 Sánchez P., M. Ragab, R. Quintanilla, M.F. Rothschild, and M. Piles. 2017. Genetic parameters and expected responses to selection for components of feed efficiency in a Duroc pig line. Genet Sel Evol 49:86 DOI 10.1186/s12711-017-0362-x

379 Zurbrigg K,'T. van Dreumel, M. F Rothschild, D. Alves, R. Friendship, and T. O'Sullivan 2017. Rapid Communication: Post-mortem lesions and heart weights of in-transit loss market pigs in Ontario. JAS. doi: 10.2527/jas2017.2089

380 Fleming D., S. Weigend, H. Simianer, A. Weigend, M. F. Rothschild[1], C. Schmidt, C. Ashwell, M. Persia, J. Reecy and Susan Lamont. 2017. Genomic comparison of indigenous African and Northern European chickens reveals putative mechanisms of stress tolerance related to environmental selection pressure G3: Genes, Genomics and Genetics May 2017 7: 1525-1537; https://doi.org/10.1534/g3.117.041228

381 Rothschild M.F. 2017. Genomics and Genetics: a Daily Double for the horse industry. Equine veterinary Journal. DOI: 10.1111/evj.12668

382 Bertolini F., J.C.S. Harding, B. Mote, A. Ladinig, G.S. Plastow, and M.F. Rothschild. 2017. Genomic investigation of piglet resilience following porcine epidemic diarrhea outbreaks. Animal Genetics.48(2):228-232. doi: 10.1111/age.12522.

383 Stock, J.D., J.A. Calderón Díaz, B. Mote, M.F. Rothschild and K.J. Stalder. 2017. Development of an objective feet and leg conformation evaluation method using digital imagery in swine. Journal of Animal Sciences and Livestock Production. Vol. 1(2):006

384 Talenti A., F. Bertolini, J. Williams, M. Moaeen-ud-Din, S. Frattini, B. Coizet, G. Pagnacco, J. Reecy, M.F. Rothschild, P. Crepaldi, and the Italian Goat Consortium. 2018. Genomic analysis suggests KITLG is responsible for a roan pattern in two Pakistani goat breeds. Journal of Heredity 109"315-319. doi: 10.1093/jhered/esx093

385 Mauler D., B. Gandolfi, C. R. Reinero, D.P. O'Brien, J. L. Spooner, L.A. Lyons and 99 Lives Consortium (including M.F. Rothschild). 2017. Precision medicine in cats: novel Niemann-Pick Type C1 diagnosed by whole2 genome sequencing. J Vet Intern Volume 31: 539–544

386 Mwacharo J.M., E.-S. Kim, A. R. Elbeltagy, A. M. Aboul-Naga, B. A. Rischkowsky and M. F. Rothschild. 2017. Genomic footprints of dryland 1 stress adaptation in Egyptian fat-tail sheep and their divergence from East African and western Asia cohorts. Scientific Reports 7: 1764

387 Mujibi D.M., E. Okoth, C. Onzere, R. Bishop, E. M. Fèvre [4], L. Thomas, C. Masembe, G. Plastow and M. F. Rothschild. 2018 .Genetic diversity, breed composition and admixture of Kenyan domestic pigs in African swine fever (ASF) endemic regions. Plos One https://doi.org/10.1371/journal.pone.0190080

388 Rothschild M.F. 2018. Following one's scientific compass. J. Animal Breeding and Genetics. 135: 3-5

389 Bertolini F., G. Schiavo, G. Galimberti, S. Bovo, M. Gallo, L. Buttazzoni, M.F. Rothschild, and L. Fontanesi. 2018. Genome wide association studies for seven production traits highlight genomic regions useful to dissect dry-cured ham quality and production traits in Italian Duroc pigs. Animal, 12(9):1777-1784. doi: 10.1017/S1751731118000757.

390 Peiravan A., F. Bertolini, M. F. Rothschild, K. Allenspach, A. E. Jergens, and D. Werling. 2018. Genome -Wide Association Studies of Inflammatory Bowel Disease in German Shepherd Dogs. PlosONE, 13(7):e0200685. doi:10.1371/journal.pone.0200685.

391 Bertolini F., B. Servin, A. Talenti, E. Rochat, E.S. Kim, C. Oget, I. Palhière, A. Crisà, G. Catillo, R. Steri, M. Amills, L. Colli, G. Marras, M. Milanesi, E.L. Nicolazzi, B.D. Rosen, C.P. Van Tassell, B. Guldbrandtsen, T.S. Sonstegard, G. Tosser-Klopp, A. Stella, M.F. Rothschild, S. Joost, P. Crepaldi, and the ADAPTmap consortium. 2018. Signatures of selection and environmental adaptation across the goat genome post domestication. Genetics Selection Evolution, 19;50(1):57. doi: 10.1186/s12711-018-0421-y.

392 Bertolini F., T.F. Cardoso, G. Marras, E.L. Nicolazzi, M.F. Rothschild, M. Amills, and the ADAPTMAP consortium. 2018. Genome-wide patterns of homozygosity provide clues about the population history and adaptation of goats. Genetics Selection Evolution, 50(1):59. doi: 10.1186/s12711-018-0424-8.

393 Cardoso T.F., M. Amills, F. Bertolini, M.F. Rothschild, G. Marras, G. Boink, J. Jordana, J. Capote, S. Carolan, J.H. Hallsson, J. Kantanen, A. Pons, J.A. Lenstra, and the ADAPTmap Consortium. 2018. Patterns of homozygosity in insular and continental goat breeds. Genetics Selection Evolution, 50(1):56. doi: 10.1186/s12711-018-0425-7.

394 Chinchilla-Vargas J., K. Kerns and M.F. Rothschild. 2018. Climatic and lunar effects on quality traits of boar semen. Animal Reproduction Science:193, 117-125.

395 Chinchilla-Vargas J., M. M. Jahnke, T. M. Dohlman, M.F. Rothschild and P.J. Gunn. 2018. Climatic factors affecting quantity and quality grade of in vivo produced bovine embryos. Animal Reproduction Science: 192, 53-60.

396 Chinchilla-Vargas J., M. J. Woodward-Greene, C.P. Van Tassell, C. W. Masiga and M. F. Rothschild. 2018. Predicting live weight of rural African goats using body measurements. Livestock Research for Rural Development 30 (7).

397 Edea, Z. H. Dadi, T. Dessie, M. R. Uzzaman, M. F. Rothschild, E.-S. Kim, T. S. Sonstegard and K.-S. Kim. 2018. Genome-wide scan reveals divergent selection among taurine and zebu cattle populations from different regions. Anim Genet 49:550-563. https://doi.org/10.1111/age.12724

398 Kim, K.S., J.T. Seibert, Z. Edea, K.L.Graves, E.S. Kim, A. F. Keating, L.H. Baumgard, J.W. Ross and M.R Rothschild. 2018. Characterization of the acute heat stress response in gilts: III. Genome-wide association studies of thermotolerance traits in pigs. J Anim Sci. 96: 2074-2085. doi: 10.1093/jas/sky131

399 Stella A., E.L. Nicolazzi, C.P. Van Tassell, M.F. Rothschild, L. Colli, B.D. Rosen, T. Sonstegard, P. Crepaldi, G. Tosser-Klopp, S. Joost and the AdaptMap Consortium. 2018. AdaptMap: exploring goat diversity and adaptation. Genetics Selection Evolution, 50(1):61. doi: 10.1186/s12711-018-0427-5.

400 Colli L., M. Milanesi, A. Talenti, F. Bertolini, M. Chen, A. Crisà, K.G. Daly, M. Del Corvo, B. Guldbrandtsen, J.A. Lenstra, B.D. Rosen, E. Vajana, G. Catillo, S. Joost, E.L. Nicolazzi, E. Rochat, M.F. Rothschild, B. Servin, T.S. Sonstegard, R. Steri, Van C.P.

Tassell, P. Ajmone-Marsan, P. Crepaldi, A. Stella; AdaptMap Consortium. 2018. Genome-wide SNP profiling of worldwide goat populations reveals strong partitioning of diversity and highlights post-domestication migration routes. Genetics Selection Evolution, 50(1):58. doi: 10.1186/s12711-018-0422-x.

401 Metodiev, S., D.M.Thekkoot, J.M.Young, S.Onteru, M.F.Rothschild and J.C.M.Dekkers. 2018. A whole-genome association study for litter size and litter weight traits in pigs. Livest Sci 211: 87-97

402 Monson, M.S., A.G. Van Goor, C. M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2018. Immunomodulatory effects of heat stress and lipopolysaccharide on the bursal transcriptome in two distinct chicken lines. BMC Genomics 19:643. https://doi.org/10.1186/s12864-018-5033-y

403 Bertolini, F., T. Yang, Y. Huang, J.C. Harding, M.F. Rothschild, G. Plastow. 2018. A genomic investigation of Porcine Periweaning Failure to Thrive Syndrome (PFTS). Veterinary record, 183(3):95. doi: 10.1136/vr.104825.

404 Talenti A., F. Bertolini, J. Williams, M. Moaeen-Ud-Din, S. Frattini, B. Coizet, G. Pagnacco, J. Reecy, M.F. Rothschild, P. Crepaldi and the Italian Goat Consortium. 2018. Genomic Analysis Suggests KITLG is Responsible for a Roan Pattern in two Pakistani Goat Breeds. 2018. Journal of Heredity. 109(3):315-319. doi: 10.1093/jhered/esx093.

405 Gol, S., R. N. Pena, M. F. Rothschild, M. Tor and Joan Estany. 2018. A polymorphism in the fatty acid desaturase-2 gene is associated with the arachidonic acid metabolism in pigs. Sci Reports 8:14336

406 Mujibi D.M., E. Okoth, C. Onzere, R. Bishop, E. M. Fèvre [4], L. Thomas, C. Masembe, G. Plastow and M. F. Rothschild. 2018 .Genetic diversity, breed composition and admixture of Kenyan domestic pigs in African swine fever (ASF) endemic regions. Plos One https://doi.org/10.1371/journal.pone.0190080

407 Zurbrigg, K., T. van Dreumel, M.F. Rothschild, D. Alves, R. M. Friendship, and T.L. O'Sullivan 2018. Rapid Communication: A comparison of cardiac lesions and heart weights from market pigs that did and did not die during transport to one Ontario abattoir. Translational Animal Science, txy124, https://doi.org/10.1093/tas/txy124

408 Stock, J.D., J. A. Calderón Díaz, M. F. Rothschild, B. E. Mote, and K. J. Stalder 2018. Objective evaluation of female feet and leg joint conformation at time of selection and post first parity in swine, **J Anim Sci.**96: 3549–3557 https://doi.org/10.1093/jas/sky227

409 Walugembe, M., F. Bertolini[1], C. M. B. Dematawewa, M. P. Reis, A. R. Elbeltagy, C. J. Schmidt, S. J. Lamont and M. F. Rothschild. 2019. Detection of selection signatures among Brazilian, Sri Lankan, and Egyptian chicken populations under different environmental conditions. Front. Genet. (in press)

410 Wang, Y., X. Jia, J. C.F. Hsieh, M. S. Monson, J. Zhang, D. Shu, Q. Nie, M. E. Persia, C. J. Schmidt, M. F. Rothschild, and S. J. Lamont. 2019. Transcriptome Response of Metabolic Tissues for Heat Stressed Commercial Laying Hens. Scientific report (submitted)

411 Rowland, K., C. M. Ashwell, M. E. Persia, M. F. Rothschild, C. Schmidt and S. J. Lamont. 2019. Blood gas and chemistry components are moderately heritable in commercial white egg-laying hens under acute or chronic heat exposure. Poultry Sci. (submitted)

412 Rowland, K., C. M. Ashwell, M. E. Persia, M. F. Rothschild, C. Schmidt and S. J. Lamont. 2019. Genetic analysis of production, physiologic, and egg quality traits in heat-challenged commercial white egg-laying hens using 600k SNP array data. Genetics Selection Evolution. (submitted)

413 More, M., G. Gutiérrez, M.F. Rothschild, F. Bertolini, F. A. Ponce de León. 2019. Evaluation of SNP genotyping in alpacas using the bovine HD genotyping beadchip. Frontiers in Genetics (submitted)

414 Elbeltagy A.R., F. Bertolini, D. Fleming, A.V. Goor, C. M. Ashwell, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2016. Evidence of Natural Selection Footprints Among Some African Chicken Breeds and Village Ecotypes. Front. Genet. (submitted)

415 Zurbrigg, K., F. Bertolini, M. F. Rothschild, T. van Dreumel, D. Alves, R. Friendship and T. L. O'Sullivan. 2019. A genome-wide association study of the cardiac lesions of pigs that die during transport: Is heart failure of in-transit loss pigs associated with a heritable cardiomyopathy? (in preparation)

Abstracts

1. Rothschild, M. F., A. B. Chapman, R. H. Towner, D. Gianola, and R. G. Cassens. 1975. Variation of serum cholesterol levels of swine. J. Anim. Sci. 42:257.

2. Rothschild, M. F., C. R. Henderson, and R. W. Everett. 1976. Comparison of herdmate comparison, modified contemporary comparison and northeast artificial insemination sire comparison sire summary values for bias related to natural service sires and age of sire. J. Dairy Sci. 60 (Suppl. 1).

3. Rothschild, M. F., C. R. Henderson, and R. L. Quaas. 1978. Comparison of maximum likelihood and Henderson's method 1 estimates of variances and covariances for two traits when selection is present. J. Dairy Sci. 61 (Suppl. 1).

4. Rothschild, M. F., R. E. Pearson, and R. H. Miller. 1979. Differences in reproductive performance of daughters of single and multiple-trait selected sires. J. Dairy Sci. 62 (Suppl. 1).

5. Miller, R. H., R. E. Pearson, and M. F. Rothschild. 1979. Differences in incidence of clinical mastitis of daughters of single and multiple trait selected sires. J. Dairy Sci. 62 (Suppl. 1).

6. Rothschild, M. F., L. W. Douglass, and R. C. Powell. 1980. Pedigree information and its relationship to son's superiority. J. Dairy Sci. 63 (Suppl. 1).

7. Cisneros, P. J., G. R. Wiggans, M. F. Rothschild, and F. N. Dickinson. 1980. Effects of sire, service sire, and their interaction on conception rate. J. Dairy Sci. 63 (Suppl. 1).

8. Greaves, B. L., J. L. Majeskie, E. Russek, and M. F. Rothschild. 1980. Reasons for removal of Holstein dairy cattle in Maryland. J. Dairy Sci. 63 (Suppl. 1).

9. Rothschild, M. F., L. L. Christian, and M. L. Hayenga. 1981. Producer purchasing response for genetically different boars and boar semen. J. Anim. Sci. 53 (Suppl. 1).

10. Christian, L. L., H. Vecchionacce, M. F. Rothschild, and B. A. Rasmussen. 1981. Performance and carcass characteristics of normal, stress-carrier and stress-susceptible swine. J. Anim. Sci. 53 (Suppl. 1).

11. Brannaman, J. L., L. L. Christian, and M. F. Rothschild. 1982. Prediction equations for estimating muscle quantity in 15-50 kg pigs. J. Anim. Sci. 55 (Suppl. 1).

12. Grisdale, B., L. L. Christian, H. R. Cross, D. J. Meisinger, M. F. Rothschild, and R. G. Kauffman. 1982. Practical methods to estimate pork carcass composition. J. Anim. Sci. 55 (Suppl. 1).

13. Brannaman, J. L., L. L. Christian, M. F. Rothschild, J. R. Cross, and B. Grisdale. 1983. Live animal measurements for estimating muscle quality in market hogs. J. Anim. Sci. 57 (Suppl. 2).

14. Lie, W. R., M. F. Rothschild, and C. M. Warner. 1983. Preparation of monoclonal antibodies against SLA antigens. Presented at the West Central States Biochemistry Conference.

15. Parliman, J. A., M. G. Erlander, D. D. Draper, M. F. Rothschild, L. L. Christian, and D. C. Beitz. 1984. Effects of L-Dopa/Carbidopa supplementation on growth and blood composition of stress-susceptible and stress-resistant pigs. Presented at the 1984 FASEB meetings.

16. Hagenow, R. L., M. F. Rothschild, L. L. Christian, and D. L. Meeker. 1984. Selection for front leg soundness scores in Duroc pigs. J. Anim. Sci. 59 (Suppl. 1).

17. Rothschild, M. F., L. L. Christian, D. L. Meeker, and R. L. Hagenow. 1985. Response in three generations to divergent selection for front leg soundness in Duroc swine. Proc. 36th Eur. Assoc. of Anim. Prod. Sept. 30-Oct. 3, 1985.

18. Blanchard, W. W., L. L. Christian, and M. F. Rothschild. 1985. Predicting sale price from performance of centrally tested Hampshire boars. J. Anim. Sci. 61 (Suppl. 1).

19. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner, and H. T. Hill. 1985. Additive direct and maternal variances and covariances for immune response following vaccination for pseudorabies and atrophic rhinitis in swine. J. Anim. Sci. 61 (Suppl. 1).

20. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner, and H. T. Hill. 1985. Breed differences and heterosis of immune response following vaccination for pseudorabies and atrophic rhinitis in swine. J. Anim. Sci. 61 (Suppl. 1).

21. Lie, W. R., M. F. Rothschild, and C. M. Warner. 1985. Quantitative differences in GLO enzyme levels associated with the MHC of miniature swine. Presented Iowa State University Biochemistry-Biophysics Silver Jubilee Conference. May 31.

22. Jung, Y. C., M. F. Rothschild, and L. L. Christian. 1986. Correlated response in reproductive traits from 3 generations of divergent selection for front leg soundness. J. Anim. Sci. 63 (Suppl. 1).

23. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner, and H. T. Hill. 1986. Partial correlations among production traits and immune response to pseudorabies and Bordetella bronchiseptica vaccines in swine. J. Anim. Sci. 63 (Suppl. 1).

24. Newton, J. R., L. L. Christian, and M. F. Rothschild. 1986. Early vs. late weaning on growth and carcass traits in crossbred swine. J. Anim. Sci. 63 (Suppl. 1).

25. Wood, C. M., L. L. Christian, and M. F. Rothschild. 1986. Adjustments for 21-d litter weight of pigs. J. Anim. Sci. 63 (Suppl. 1).

26. Wood, C. M., J. Schnell, L. L. Christian, and M. F. Rothschild. 1986. Correlations between ultrasound and carcass measurements of backfat and loin eye area on pigs. J. Anim. Sci. 63 (Suppl. 1).

27. Lie, W. R., M. F. Rothschild, and C. M. Warner. 1986. Preparation and characterization of monoclonal antibodies to swine lymphocyte antigens. Fed. Proc. 45:987.

28. Warner, C. M., M. F. Rothschild, S. P. Ford, W. R. Lie, and N. K. Schwartz. 1986. Detection of major histocompatibility complex (MHC) antigens on preimplantation pig embryos. Biol. Reprod. 34 (Suppl. 1).

29. Wood, C. M., L. L. Christian, and M. F. Rothschild. 1986. Evaluation of simulated swine test station data sets with limited numbers by mixed models utilizing genetic relationships. J. Anim. Sci. 63 (Suppl. 1).

30. Kim, C. D., S. J. Lamont, and M. F. Rothschild. 1986. Genetic associations of body weight and immune response with the major histocompatibility complex in young chicks. Poultry Sci. 65 (Suppl. 1).

31. Rothschild, M. F., Ch. Renard, C. Legault, and M. Vaiman. 1987. Effect of SLA haplotypes on birth and weaning weight and on deficit of homozygotes in Meishan pigs. Anim. Genet. 18 (Suppl. 1):33-34.

32. Draper, D. D., M. F. Rothschild, L. L. Christian, and S. A. Goedegebuure. 1987. The relationship of muscle and joint characteristics to genetic differences in leg weakness in swine. J. Anim. Sci. 65 (Suppl. 1):98.

33. Flanagan, M. P., M. F. Rothschild, N. K. Schwartz, and C. M. Warner. 1987. Restriction-fragment length polymorphism analysis of SLA class I genes within the Duroc breed. J. Anim. Sci. 65 (Suppl. 1):99.

34. Flanagan, M. P., M. F. Rothschild, N. K. Schwartz, and C. M. Warner. 1987. Inheritance of SLA class I genes in the pig: Determination of class I genotypes by restriction fragment length polymorphism analysis. Fed. Proc. 46:945.

35. Goodwin, R. N., L. L. Christian, and M. F. Rothschild. 1987. The influence of breed, season, testing sequence, and on-test weights on the performance of centrally tested boars. J. Anim. Sci. 65 (Suppl. 1):100.

36. Hoeschele, I., M. F. Rothschild, and D. Gianola. 1987. A Bayesian approach to recursive estimation of breeding values with categorical data. J. Anim. Sci. 65 (Suppl. 1):97-98.

37. Rothschild, M. F., S. A. Goedegebuure, L. L. Christian, and R. F. Ross. 1987. Genetic control of front leg structure in Duroc swine and its relationship to osteochondrosis. J. Anim. Sci. 65 (Suppl. 1):212-213.

38. Conley, A. J., Y. C. Jung, N. K. Schwartz, C. M. Warner, M. F. Rothschild, and S. P. Ford. 1987. Influence of SLA haplotype on ovulation rate and litter size in miniature swine. Biol. Reprod. 35 (Suppl. 1).

39. Lindberg, G. L., B. Shank, M. F. Rothschild, A. E. Freeman, C. M. Koehler, and D. C. Beitz. 1987. Mammary mitochondrial functions in lines of mice genetically divergent for milk production. J. Dairy Sci. 70 (Suppl. 1).

40. Draper, D. D., M. F. Rothschild, L. L. Christian, and S. A. Goedgebuure. 1987. Joint and muscle characteristics of three divergent lines of swine selected for varying degrees of leg weakness. Amer. Assoc. Vet. Anatomy Annual Meeting.

41. Rothschild, M. F., S. A. Goedegebuure, L. L. Christian, and R. F. Ross. 1987. Evidence of osteochondrosis in swine from 5 generations of divergent selection for leg weakness. Proc. 38th annual EAAP meetings. I:92-93. Lisbon, Portugal.

42. Jung, Y. C., M. F. Rothschild, L. L. Christian, M. Flanagan, and C. M. Warner. 1988. Association of restriction fragment length polymorphisms (RFLPs) of swine leukocyte antigen (SLA) class I genes and production traits in Duroc and Hampshire boars. J. Anim. Sci. 66 (Suppl. 1):102.

43. Boggess, M. V., M. F. Rothschild, and L. L. Christian. 1988. Comparison of foot and leg structure in crossbred pigs sired by Duroc boars which differ in degree of leg weakness. J. Anim. Sci. 66 (Suppl. 1):98.

44. Reyes, G. A., L. L. Christian, and M. F. Rothschild. 1988. Effect of heterosis and feed intake on testes size, semen quality and breeding performance of mature boars. J. Anim. Sci. 66 (Suppl. 1):99.

45. Wilson, D. E., R. L. Willham, M. F. Rothschild, and S. L. Northcutt. 1988. A method to estimate the relative magnitude of cytoplasmic DNA effects on direct growth and maternal effects in beef cattle using a mixed model. J. Anim. Sci. 66 (Suppl. 1):104-105.

46. Lie, W. R., M. F. Rothschild, and C. M. Warner. 1988. Mapping of C2, Bf, and C4 genes to the swine major histocompatibility complex (SLA). Proceedings Int. Symposium on the Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species, Oct. 23-24, 1987, Iowa State Press, Ames, Iowa.

47. Jung, Y. C., M. Flanagan, M. F. Rothschild, and C. M. Warner. 1988. Genetic variability between two breeds based on restriction endonuclease fragment polymorphisms of major histocompatibility complex class I genes in swine. Proceedings Int. Symposium in the Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species, Oct. 23-24, 1987, Iowa State Press, Ames, Iowa.

48. Schwartz, N. K., A. J. Conley, M. F. Rothschild, C. M. Warner, and S. P. Ford. 1988. Effect of SLA haplotype on rate of preimplantation embryonic development in miniature swine. Proceedings Int. Symposium on the Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species, Oct. 23-24, 1987, Iowa State Press, Ames, Iowa.

49. Rothschild, M. F., D. D. Draper, and L. L. Christian. 1988. Muscle, tendon and bone characteristics of gilts from Duroc lines divergently selected for front leg weakness. J. Anim. Sci. 66 (Suppl. 1):217.

50. Draper, D. D., M. F. Rothschild, and L. L. Christian. 1988. Effects of divergent selection on muscle, tendon and bone characteristics of three lines of Duroc Swine with differing degrees of leg weakness. Amer. Assoc. Vet. Anat. Annual Meeting.

51. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1989. Production levels and composition of milk from purebred and crossbred Hampshire and Landrace swine. J. Anim. Sci. 67 (Suppl. 1): 78.

52. Meeker, D. L., R. N. Goodwin, L. L. Christian, and M. F. Rothschild. 1989. A prediction equation for lean efficiency of market swine. J. Anim. Sci. 67 (Suppl. 1):80.

53. Pusateri, A. E., M. F. Rothschild, C. M. Warner, and S. P. Ford. 1989. Effect of breed, major histocompatibility complex genotype and level of inbreeding on developmental stage of day 11 swine embryos. J. Anim. Sci. 67 (Suppl. 1):405.

54. Ernst, C. W., M. F. Rothschild, L. L. Christian, and R. C. Ewan. 1989. The effect of dietary addition of sodium bicarbonate on genetic differences in leg structure of Duroc swine. J. Anim. Sci. 67 (Suppl. 1):77-78.

55. Skaggs, C. L., L. L. Christian, M. F. Rothschild, L. F. Miller, and D. E. Meisinger. 1989. Somatotropin effects on quantitative and qualitative carcass traits of normal, carrier, and stress susceptible swine. J. Anim. Sci. 67 (Suppl. 1):78.

56. Skaggs, C. L., L. L. Christian, M. F. Rothschild, D. D. Draper, L. F. Miller, and D. E. Meisinger. 1989. Somatotropin effects on growth and leg traits of normal, carrier, and stress susceptible swine. J. Anim. Sci. 67 (Suppl. 1):78.

57. Takahashi, H., L. L. Christian, and M. F. Rothschild. 1989. Inbreeding effects on age at 105 kg and backfat thickness of Duroc pigs. J. Anim. Sci. 67 (Suppl. 1):77.

58. Takahashi, H., L. L. Christian, and M. F. Rothschild. 1989. Heritability and common environmental effects on age at 105 kg and backfat thickness of Duroc pigs. J. Anim. Sci. 67 (Suppl. 1):79-80.

59. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1990. Heterosis and recombination effects for milk production, milk composition and litter traits. J. Anim. Sci. 68 (Suppl. 1):66.

60. Hoganson, D. A., M. F. Rothschild, C. M. Warner, D. L. McLaren, H. A. Lewin, and L. B. Schook. 1990. Comparison of swine major histocompatibility complex class I restriction fragment length polymorphisms with serologically recognized class I antigens. J. Anim. Sci. 68 (Suppl. 1):65.

61. Hoganson, D. A. and M. F. Rothschild. 1990. RFLP analysis of class I major histocompatibility complex genes in Chinese pigs. J. Anim. Sci. 69 (Suppl.1):69.

62. Rothschild, M. F., D. G. McLaren, L. D. Young, L. L. Christian, C.-Y. Hseih, and B. R. White. 1990. Preliminary reproductive results from Meishan gilts imported from the Peoples republic of China (PRC) to the United States. J. Anim. Sci. 68 (Suppl. 1):228.

63. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1990. Heterosis and recombination effects for performance and carcass traits of Hampshire and Landrace swine. J. Anim. Sci. 68 (Suppl. 1):234.

64. Rothschild, M. F., D. L. Meeker, and M. Healey. 1990. Large scale survey of electronically collected swine carcass data. J. Anim. Sci. 68 (Suppl. 1):474-475.

65. Rothschild, M. F., L. L. Christian, C. Y. Hsieh, S. C. Whipp, R. D. Michaels, L. E. Evans, N. M. Gueniat, D. Hoganson, C. Jacobson, P. Paul, J. Sell, S. Nissen, R. Ewan, J. A. Roth, B. Goff, J. Kunesh, and R. F. Ross. 1990. Evaluation of Chinese breeds: Research plans and early results at Iowa State University. Proc. Chinese Pig Symposium, Toulouse, France, July 5-6, pp. 117-118.

66. Xu, Y., M. F. Rothschild, and C. M. Warner. 1990. Mapping the swine major histocompatibility complex genes by pulsed field gel electrophoresis. Proc. 22nd International Conference on Animal Genetics, East Lansing, MI, Aug. 25-31, 5.1.6.

67. Michaels, R. D., S. C. Whipp, and M. F. Rothschild. 1990. Development of a model of disease resistance in swine: genetic resistance to K88ac+ E. Coli in Chinese pigs. Proc. 71st Conference Research Workers in Animal Disease.

68. Hsieh, C.-Y., M. F. Rothschild, S. Nissen, and D. Webb. 1991. Comparison of U.S. and Chinese pigs for immune response to sheep red blood cell antigen. J. Anim. Sci. 69 (Suppl. 1):73.

69. Sell, J. L. and M. F. Rothschild. 1991. Comparative characteristics of the gastrointestinal tract of neonate Chinese and Chinese crossbred pigs. J. Anim. Sci. 69 (Suppl. 1):125.

70. Skaggs, C., J. Piedrafita, L. L. Christian, M. F. Rothschild, D. Draper, and D. Meisinger. 1991. Somatotropin effects on performance and leg soundness traits of normal, carrier and stress susceptible swine. J. Anim. Sci. 69 (Suppl. 1):72.

71. Piedrafita, J., C. Skaggs, L. L. Christian, M. F. Rothschild, and D. Meisinger. 1991. Stress genotype effects on carcass and meat quality traits of pigs treated with recombinant porcine somatotropin. J. Anim. Sci. 69 (Suppl. 1):71.

72. Kaplon, M. J., M. F. Rothschild, B. Onechowlia, and R. Eckert. 1991. Between regional differences in population parameter estimates and genetic and phenotypic trends within the Large White nucleus population. Proc. European Assoc. of Animal Production.

73. Skaggs, C. L., L. L. Christian, M. F. Rothschild, J. A. Boles, and D. E. Meisinger. 1991. Fat-O'-Meater probe measurements for determining quantitative and qualitative carcass characteristics of normal, carrier and stress susceptible swine treated with somatotropin. J. Anim. Sci. 69 (Suppl 1):192.

74. Rothschild, M. F., R. G. Larson, C.-Y. Hsieh, and C. D. Jacobson. 1991. Genetic variability of the swine estrogen receptor and heat shock genes and their relationship to health and performance. J. Anim. Sci. 69 (Suppl. 1):200.

75. Rothschild, M.F., M. K. Ruohonen-Lehto, R. G. Larson, C. J. Hergenrader, and C. K. Tuggle. 1992. Estrogen receptor gene restriction fragment length polymorphisms in U.S. breeds of swine. J. Anim. Sci.70 (Suppl. 1):41.

76. Ruohonen-Lehto, M. K. and M. F. Rothschild. 1992. Comparison of human and pig cDNA probes with polymerase chain reaction fragment probes in studies of the class I swine major histocompatibility complex region. J. Anim. Sci.70 (Suppl. 1):42.

77. Tuggle, C. K., J. M. Helm, and M. F. Rothschild. 1992. Identification and cloning of a swine growth hormone regulator gene. J. Anim. Sci.70 (Suppl. 1):41.

78. Christian, L. L., M. F. Rothschild, C. L. Skaggs, and J. R. Newton. 1992. Maternal performance of F1 Chinese x American gilts. J. Anim. Sci.70 (Suppl. 1):40.

79. Tuggle, C. K., J. M. Helm, T.-P. Yu, and M. F. Rothschild. 1992. Cloning and analysis of a growth hormone regulatory gene from Sus scrofa. ISU Life Sciences Symposium Proceedings.

80. Ruohonen-Lehto, M. K., M. F. Rothschild, and R. G. Larson. 1992. Restriction fragment length polymorphisms at the heat shock HSP70 gene(s) in pigs. Anim. Genet. 23 (Suppl. 1):68.

81. Tuggle, C. K., T.-P. Yu, J. M. Helm, and M. F. Rothschild. 1992. Cloning and analysis of pig POU-domain genes for growth and lactation (PIT-1) and immune function (Oct-2). Anim. Genet. 23: (Suppl. 1):67-68.

82. Ruohonen-Lehto, M. K., Ch. Renard, and M. F. Rothschild. 1992. Developing specific probes for the major histocompatibility complex class I region in pigs. Anim. Genet. 23 (Suppl. 1):43.

83. Yu, T. P., C. B. Schmitz, M. F. Rothschild, and C. K. Tuggle. 1993. Cloning and application of the swine PIT-1 gene: use as a molecular marker in swine breeding studies. J. Anim. Sci. 71 (Suppl. 1):99.

84. Rothschild, M. F., M. K. Ruohonen-Lehto, R.G. Larson, D. A. Vaske, and C. M. Warner. 1993. Locating new genes on chromosome 7 in the pig. J. Anim. Sci. 71 (Suppl. 1):36.

85. PiGMaP Consortium. 1993. Towards a linkage map in the domestic pig. Proceedings International Genetic Meeting, Birmingham, U.K.

86. Michaels, R. D., S. C. Whipp, and M. F. Rothschild. 1994. Weak adherent phenotype for K88+ E. coli resistance in Chinese Fengjing pigs. J. Anim. Sci. 72 (Suppl. 1).

87. Rothschild, M. F., P. L. Spike, C. K. Tuggle, and L. L. Christian. 1994. Coordination of U.S. pig gene mapping efforts. J. Anim. Sci. 72 (Suppl. 1).

88. Ernst, C. W., D. A. Vaske, R. G. Larson, M. E. White, and M. F. Rothschild. 1994. Restriction fragment length polymorphisms at the swine myogenin and MRF4 loci. J. Anim. Sci. 72 (Suppl. 1).

89. Tuggle, C. K., C. B. Schmitz, T.-P. Yu, and M. F. Rothschild. 1994. Identification of swine genes expressed in muscle and their association with quantitative traits. J. Anim. Sci. 72 (Suppl. 1):248.

90. Wang, L., M. F. Rothschild, and A. L. Hillyard. 1994. Introduction to USPIGBASE, a pig gene mapping database. J. Anim. Sci. 72 (Suppl. 1):314.

91. Yu, T.-P., M. F. Rothschild, and C.K. Tuggle. 1994. Isolation and analysis of alternative transcripts of the swine PIT-1 gene using PCR. J. Anim. Sci. 72 (Suppl. 1):314.

92. Tuggle, C., C. Schmitz, J. Woollard, A. Rahman, M. Rothschild, C. Haley, and A. Archibald. 1995. Cloning, characterization and mapping of candidate genes in swine. Animal Genetics 25 (Suppl. 2):56.

93. Rothschild, M. F., D. Vaske, R. Larson, H. Liu, C. Tuggle, C. Warner, Muladno, P. Le Tissier, C. Moran, L. Andersson, I. Edfors-Lilja, M. Johansson, A. Archibald, and C. Haley. 1995. Conserved synteny between human chromosome 6 and pig chromosomes 1 and 7. Anim. Genet. 25 (Suppl 2):53.

94. PiGMaP consortium. 1995. The PiGMaP consortium linkage map of the domestic pig (Sus scrofa). Anim. Genet. 25 (Suppl 2): 44.

95. Rothschild, M. F. C. K. Tuggle, D. A. Vaske, and L. Wang. 1995. Development of a consensus map for chromosome 1 in the pig. J. Anim. Sci. 73 (Suppl. 1):40.

96. Liu, H. C., M. F. Rothschild, and C. K. Tuggle. 1995. Analysis of pig chromosome 7 genetic markers for growth and carcass performance traits. J. Anim. Sci. 73 (Suppl. 1):41.

97. Tuggle, C. K., C. Schmitz, L. Wang, and M. F. Rothschild. 1995. Cloning, polymorphism identification and mapping of OCT1. J. Anim. Sci. 73 (Suppl. 1):39.

98. Wang, L., M. F. Rothschild, P. L. Spike, A. L. Hillyard, and A. L. Archibald. 1995. PiGBASE on WWW. J. Anim. Sci. 73 (Suppl. 1):41.

99. Rothschild, M. F. 1995. Marker assisted selection- potential for changing the face of animal agriculture. Proc. Amer. Assoc. Advanc. Science (AAAS) p. 25.

100. Rothschild, M. F., D. A. Vaske, C. K. Tuggle, L. A. Messer, D. G. McLaren, T. H. Short, G. R. Eckardt, A. J. Mileham, and G. S. Plastow. 1995. Estrogen Receptor locus is a major gene for litter size in the pig. Proc. European Assoc. Anim. Prod. p. 53.

101. Rothschild, M. F., C. K. Tuggle, L. A. Messer, T. P. Yu, and L. Wang. 1995. Comparative gene mapping and identification of quantitative trait loci in pigs. Proceedings HUGO International Comparative Genome meeting, Brisbane, Australia, Dec. 3-7.

102. Yu, T. P., M. F. Rothschild, and C. K. Tuggle. 1996. Functional studies of the pig PIT-1 protein and a PIT-1 delta 3 protein encoded by an alternative transcript. J. Anim. Sci. 74 (Suppl. 1):44.

103. Tuggle, C. K., C. B. Schmitz, S. Wahls, D. Gingerich Feil, and M. F. Rothschild. 1996. Cloning and analysis of pig NRAMP and other candidate genes for disease resistance and comparative genome mapping in pigs. J. Anim. Sci.74 (Suppl. 1):45.

104. Tuggle, C. K., C. B. Schmitz, S. Wahls, D. Gingerich Feil, and M. F. Rothschild. 1996. Pig NRAMP cDNA cloning and analysis of other genes for disease resistance and comparative genome mapping in pigs. Proc. Int. Soc. Anim. Gen.

105. Ollivier, L., L. A. Messer, M. F. Rothschild, and C. Legault. 1996. The use of selection experiments for detecting quantitative trait loci, with an application to INRA hyperprolific pig. Proc. European Assoc. Anim. Prod.

106. Messer, L., L. Wang, D. Pomp, and M. F. Rothschild. 1996. Mapping and investigation of candidate genes for litter size in pigs. Proc. ICAR.

107. Noguera, J. L., L. Alfonso, M. Perez-Enciso, D. Babot, and J. Estany. 1996. Results of a selection experiment for increasing litter size of Landrace pigs in Spain. Proc. European Assoc. Anim. Prod.

108. Messer, L., L. Wang, C. Legault, and M. F. Rothschild. 1996. Mapping and investigation of candidate genes for litter size in French Large White pigs. Proc. Int. Soc. Anim. Gen.

109. Stalder, K. J., L. L. Christian, M. F. Rothschild, and E.-C. Lin. 1996. Sow productivity differences between normal and carrier Landrace females. J. Anim. Sci. 74 (Suppl.1):20.

110. Stalder, K. J., L. L. Christian, M. F. Rothschild, and E.-C. Lin. 1996. Effects of porcine stress syndrome (PSS) on sow productivity. J. Anim. Sci. 74 (Suppl. 1):42.

111. Messer, L., L. Wang, D. Pomp, and M. F. Rothschild. 1996. Mapping and investigation of candidate genes for litter size in pig. Proc. The Biochemistry of Lipids Meeting. Iowa State University.

112. Messer, L. A., L. Wang, C. K. Tuggle, M. Yerle, P. Chardon, D. Pomp, J. E. Womack, W. Barendse, A. M. Crawford, D. R. Notter, and M. F. Rothschild. 1997. Mapping of the Melatonin receptor 1a (MTNR1A) gene in pigs, sheep and cattle. Proc. Plant & Animal Genome V Meeting, San Diego, CA.

113. Sun, H. S., C. W. Ernst, M. F. Rothschild, M. Yerle, P. Chardon, and C. K. Tuggle. 1997. Development of a pig comparative map for human chromosome 3. Proc. Plant & Animal Genome V Meeting, San Diego, CA.

114. Vincent, A. L., L. Wang, C. K. Tuggle, M. Yerle, and M. F. Rothschild. 1997. Linkage and physical mapping of Prolactin to pig chromosome 7. Proc. Plant & Animal Genome V Meeting, San Diego, CA.

115. Ernst, C. W., L. Wang, A. Robic, and M. F. Rothschild. 1997. Genetic linkage mapping and chromosomal localization of the porcine calpastatin gene. Proc. Plant & Animal Genome V Meeting Proceedings, San Diego, CA.

116. Wang, L., T.-P. Yu, C. K. Tuggle, and M. F. Rothschild. 1997. Association of porcine chromosome 4 markers with growth and carcass traits. Plant & Animal Genome V Meetings, San Diego, CA.

117. Vincent, A. L., L. Wang, C. K. Tuggle, and M. F. Rothschild. 1997. Prolactin receptor maps to pig chromosome 16. J. Anim. Sci. 75 (Suppl. 1):31.

118. Mendez, E. A., C. W. Ernst, and M. F. Rothschild. 1997. Evaluation of a novel polymorphism and chromosomal localization of the porcine myogenin gene. J. Anim. Sci. 75 (Suppl. 1):31.

119. Sun, H. S., T. P. Yu, L. Wang, M. F. Rothschild, M. Yerle, and C. K. Tuggle. 1997. Refinement of the syntenic boundary of pig chromosomes 4 and 6 to human chromosome 1. J. Anim. Sci. 75 (Suppl. 1):30.

120. Wang, L., T.-P Yu, H. W. Chung, C. K. Tuggle, and M. F. Rothschild. 1997. Pinpointing QTLs on chromosome 7 for performance traits in the pig. J. Anim. Sci. 75 (Suppl. 1):145.

121. Sun, H. S., L. Wang, M. F. Rothschild, A. Robic, and C. K. Tuggle. 1997. Comparative gene mapping of human chromosome 13 in pigs. J. Anim. Sci. 75 (Suppl. 1):150.

122. Yu, T.-P., L. Wang, M. F. Rothschild, and C. K. Tuggle. 1997. Progress toward an interval map for birth weight and early growth quantitative trait loci on pig chromosome 13. J. Anim. Sci. 75 (Suppl. 1):145.

123. Vincent, A. L., L. Wang, and M. F. Rothschild. 1997. Linkage mapping of the leptin receptor to pig chromosome 6. J. Anim. Sci. 75 (Suppl. 1):145.

124. Larsen, N. J., C. K. Tuggle, M. Yerle, and M. F. Rothschild. 1997. ADCYAP1 maps to pig chromosome (SSC) 6, not to the expected location on SSC1. Proc. 10th North American Colloquium on Gene Mapping and Cytogenetics.

125. Larsen, N. J. and M. F. Rothschild. 1997. Status of the porcine genome map. Proc. 10th North American Colloquium on Gene Mapping and Cytogenetics.

126. Larsen, N. J., L. A. Messer, C. K. Tuggle, A. Robic, and M. F. Rothschild. 1998. Mapping of the mitochondrial uncoupling protein (UCP1) gene in pigs narrows the human chromosome 4 region containing a break in synteny conservation with pig (*Sus scrofa*) chromosomes 8 and 17. Proc. Plant and Animal Genome VI, San Diego, CA.

127. Larsen, J. J., A. Robic, C. K. Tuggle, and M. F. Rothschild. 1998. Mapping the myocyte enhancer factor 2a (MEF2A) gene in the pig confirms the existence of a region of homology between the telomeric end of HSA15 and SSC1. Proc Plant Animal Genome VI, San Diego, CA.

128. Kelly, K., N. J. Larsen, A. Robic, and M. F. Rothschild. 1998. Physical and genetic mapping of the keratinocyte growth factor gene (KGF). Proc Plant and Animal Genome VI, San Diego, CA.

129. Yu, T. P., L. Wang, C. K. Tuggle, and M. F. Rothschild. 1998. Mapping genes for fatness and growth on pig chromosome 13: A search in the region close to the pig PIT1 gene. Proc. Int. Soc. Anim. Gen /Chromosome 13 Workshop, Aukland, New Zealand, Aug. 8-14.

130. Yerle, M., H. S. Sun, P. Pinton, C. W. Ernst, L. Schribler, M. F. Rothschild, C. Rogel-Gaillard, E. P. Cribiu, P. Chardon, and C. K. Tuggle. 1998. Comparative mapping of human chromosome 3 genes in pig reveals extensive rearranged gene order. Proc. Int. Soc. Anim. Gen /Chromosome 13 Workshop, Aukland, New Zealand, Aug. 8-14.

131. Rothschild, M. F., A. L. Vincent, C. K. Tuggle, G. Evans, T. H. Short, O.I. Southwood, R. Wales, and G. S. Plastow. 1998. A mutation in the prolactin receptor gene associated with increased litter size in pigs. Anim. Genet. Abstract.

131. Larsen, N. J., K. A. Kelly, G. R. Bertani, Z. L. Hu, K. S. Kim, M. Malek, S. Marklund, J. Seifert, A. Bothwell, M. Yerle, C. K. Tuggle, and M. F. Rothschild. 1998. Addition of sixteen genes to the porcine comparative gene map reveals new regions of conserved synteny. Anim. Genet. Abstract.

132. Helm, J. M., and M. F. Rothschild. 1999. Mapping and genetic analysis of a porcine maternal behavior candidate gene, FOSB. Proc. Plant Animal Genome VII P346 (p. 167), San Diego, CA.

133. Kim, K. S., N. J. Larsen, S. J. Kenealy, Z. Hu, and M. F. Rothschild. 1999. Linkage and physical mapping of possible obesity genes in the pig. Proc. Plant Animal Genome VII P347 (p. 167), San Diego, CA.

134. Marklund, S., C. K. Tuggle, and M. F. Rothschild. 1999. Assignment of three genes to porcine chromosome 7q. Proc. Plant Animal Genome VII P339 (p. 165), San Diego, CA.

135. Walling, G. A., P. M. Visscher, L. Andersson, M. F. Rothschild, G. Moser, M. A. M., Groenen, J. P. Bidanel, and C. S. Haley. 1999. Mapping genes for growth and fatness in pigs with data from international studies. Proc. British Society of Animal Science (p. 45).

136. Rothschild, M. F. 1999. Evidence for major genes affecting litter size in pigs. Proc. AAAS Meeting, Anaheim, CA (p. A36).

137. Jensen, L. R., N. J. Larsen, N. Horn, I. Boge, J. N. Seifert, M. F. Rothschild, N. Tommerup, and Z. Tumer. 1999. Mapping of the *ATP7A* homologue in domestic pig and investigation of the expression levels in different tissues. Presented at 2nd Int. Meeting on Copper Homeostasis and Its Disorders: Molecular and Cellular Aspects, Ravello, Italy, September 17-21.

138. Emnett, R., E. Grindflek, M. Rothschild, S. Moeller, D. Meeker, and K. Irvin. 2000. The effects of porcine peroxisome proliferator activated receptor δ (PPARδ) in Berkshire, Duroc, Hampshire and Landrace breeds. Proc. Plant and Animal Genome VIII P396, San Diego, CA.

139. Grindflek, E., J. Szyda, M. F. Rothschild, and S. Lien. 2000. A QTL analysis and candidate gene study for meat quality on swine chromosome 6. Proc. Plant and Animal Genome P399, San Diego, CA.

140. Malek, M., S. Marklund, C. Dyer, R. Matteri, and M. F. Rothschild. 2000. Linkage and physical mapping of the porcine prepro-orexin gene. Proc. Plant and Animal Genome P403, San Diego, CA.

141. Kim, K. S., S. Marklund, and M. F. Rothschild. 2000. Mapping of the porcine agouti related protein (AGRP) gene – a candidate gene for appetite and fatness. Proc. Plant and Animal Genome P405, San Diego, CA.

142. Tuggle, C. K., K. Whitworth, J. A. Green, R. Prather, M. F. Rothschild, D. Pomp, L. A. Messer, C. Roberts, T. Cassavant, and M. B. Soares. 2000. Gene discovery in porcine reproduction: physical mapping of 19 genes and ESTs. Proc. Plant and Animal Genome P599, San Diego, CA.

143. Emnett, R. S., E. Grindflek, M. F. Rothschild, S. J. Moeller, D. L. Meeker, K. M. Irvin, and R. N. Goodwin. 2000. Peroxisomeproliferator-activated receptorγ (PPARγ) as a candidate gene for meat quality in swine. Amer. Soc. Anim. Sci. Midwest Meeting, Des Moines, IA.

144. Emnett, R. S., S. J. Moeller, M. F. Rothschild, E. Grindflek, K. M. Irving, and D. L. Meeker. 2000. Physical assignment of adipocyte determination and differentiation factor-1 (ADD1) and pyruvate dehydrogenase E1-alpha (PDHA1) in the pig. Proc. 27th International Conference on Animal Genetics (p. 36).

145. Isler, B. J., K. M. Irvin, M. F. Rothschild, and G. J. Evans. 2000. Association between the prolactin receptor gene and reproductive components in swine. Proc. 27th International Conference on Animal Genetics (p. 67).

146. Kim, K. S., M. Malek, D. Ciobanu, G. S. Plastow, and M. F. Rothschild. 2000. The association of an agouti-related protein (AGRP) gene polymorphism with growth and meat quality traits in commercial lines of pigs. Proc. 27th International Conference on Animal Genetics (p. 41).

147. Malek, M., J. C. M. Dekkers, H. K. Lee, T. J. Baas, K. Prusa, E. Huff-Lonergan, and M. F. Rothschild. 2000. A molecular genome scan analysis to identify chromosomal regions influencing meat quality in the pig. Proc. 27th International Conference on Animal Genetics (p. 43).

148. Huff-Lonergan, E., T. J. Baas, M. Malek, J. Dekkers, K. Prusa, and M. F. Rothschild. 2000. Correlations among selected pork quality traits in a Berkshire by Yorkshire F2 population. J. Anim. Sci. 78 (Suppl. 1):160.

149. Lee, H. K., J. C. M. Dekkers, M. Malek, M. Soller, R. L. Fernando, and M. F. Rothschild. 2000. Comparison of approaches for determining significance threshold values for QTL detection. J. Anim. Sci. 78 (Suppl. 1):78.

150. Malek, M., J. C. M. Dekkers, H. K. Lee, T. J. Baas, K. P. Prusa, E. Huff-Lonergan, and M. F. Rothschild. 2000. Identification of quantitative trait loci affecting meat quality in a Berkshire by Yorkshire 3 generation family. J. Anim. Sci. 78 (Suppl. 1):77.

151. Ciobanu, D. C., A. E. Day, A. Nagy, R. Wales, M. F. Rothschild, and G. S. Plastow. 2000. Genetic variation of two local Romanian pig breeds assessed using DNA markers. Proc. Natl. Swine Improvement Fed.

152. Gill, R. K., D. Ciobanu, B. W. Hollis, M. F. Rothschild, and N. H. Bell. 2000. Chromosomal localization of the procine vitamin D-25-hydroxylase (CYP25) gene. Proc. Vitamin D Workshop.

153. Malek, M., J. C. M. Dekkers, H. K. Lee, T. J. Baas, K. Prusa, E. Huff-Lonergan, and M. F. Rothschild. 2000. A molecular genome scan analysis to identify chromosomal regions influencing meat quality in the pig. Proc. European Assoc. Anim. Prod (p. 89).

154. Rothschild, M., M. Malek, H. Lee, and J. Dekkers. 2000. A genome scan to identify QTL influencing obesity-related traits in the pig. Obesity Research 8 (Suppl. 1):60S

155. Ciobanu, D. C., A. E. Day, A. Nagy, R. Wales, M. F. Rothschild, and G.S. Plastow. 2000. Genetic variation of two conserved local Romanian pig breeds assessed using DNA markers. Proceedings the Natl Swine Improvement Fed., Nashville, TN, (p. 139), Dec. 7-8.

156. Grapes, L., Y. Zhang, and M. F. Rothschild. 2001. Physical and linkage mapping of the porcine Connexin 37 gene. Proc. Plant and Animal Genome IX, , San Diego, CA, Jan. 13-17.

157. Kim, K. S., N.-T. Nguyen, Y. Zhang, and M. F. Rothschild. 2001. Mapping of the HMG-I gene family in the pig. 12th North American Colloquium: Animal Cytogenetics and Gene Mapping, University of California, Davis, CA, July 15-19.

158. Kim, K. S., J. M. Reecy, L. L. Anderson, and M. F. Rothschild. 2001. Functional characterization of the missense variation in the porcine melanocortin-4 receptor gene associated with obesity-related traits in the pig. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 13-17.

159. Sherwood, J., K. S. Kim, D. Ciobanu, and M. F. Rothschild. 2001. Mapping of the porcine tropomyosin-beta gene - A candidate gene for meat quality. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 13-17.

160. Rothschild, M.F., M. Malek, J. C. M. Dekkers, H. K. Lee, T. J. Baas, K. Prusa, E. Huff-Lonergan. 2001. A molecular genome scan analysis to identify genes. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 13-17.

161. Tuggle, C. K., J. A. Green, C. Fitzsimmons, R. Woods, R. Prather, S. Malchenko, M. B. Soares, C. A Roberts, T. Casavant, C. Harger, Y. Zhang, and M.F. Rothschild. 2001. Development of resources for functional genomics in the pig: production of 14 cDNA libraries and sequencing of over 7,000 clones from female reproductive tissues. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 13-17.

162. Zhang, Y. D., K. Garwood, W. Beavis, C. K. Tuggle, and M.F. Rothschild. 2001. Comparative analysis of porcine expressed sequence tags (ESTs) and EST database generation for gene discovery and exploitation. 12th North American Colloquium: Animal Cytogenetics and Gene Mapping, University of California, Davis, CA, July 15-19.

163. Ciobanu, D. C., J. Bastiaansen, M. Malek, J. Helm, J. R. Woollard, G. S. Plastow, and M. F. Rothschild. 2002. New alleles in the PRKAG3 gene associated with low glycogen content in pig skeletal muscle and improved meat quality. Proc. Plant and Animal Genome X, San Diego, CA, Jan. 14-18.

164. Ciobanu, D. S., S. Lonergan, J. Bastiaansen, J. R. Woollard, M. Malek, E. Huff-Lonergan, G. S. Plastow, and M. F. Rothschild. 2002. Discovery of new genetic markers affecting meat quality in pigs. Proc. Plant and Animal Genome X, San Diego, CA, Jan. 14-18.

165. Kim, K. S., L. L. Anderson, C. K. Tuggle, and M. F. Rothschild. 2002. Mapping and functional analysis of the porcine ghrelin gene - A candidate gene for growth and appetite traits. Proc. Plant and Animal Genome X, San Diego, CA, Jan. 14-18.

166. Kim, K.S., H. Thomsen, J. Bastiaansen, Y. Zhang, J. C. M Dekkers, G. S. Plastow, and M. F. Rothschild. 2002. Investigation of candidate genes for the growth and fatness QTL on pig chromosomes 1, 7, and 13 in a Berkshire x Yorkshire family and commercial populations. Proc. Int'l. Soc. of Anim. Gen., Gottigen, Germany, Aug. 17.

167. Otieno, C. J., S. Vleck, C. Jelks, K.-S. Kim, N. T. Nguyen, and M. F. Rothschild. 2003. Mapping of diabetes-related genes in the pig. Proc. Plant and Animal Genome XI, San Diego, CA, Jan. 11-15.

168. Malek, M., D. C. Ciobanu, and M. F. Rothschild. 2003. Genetic and physical mapping of *ACACB, PPP1CC* and *GPR49* genes on porcine chromosomes 5 and 14 help to define a break point on human chromosome 12. Proc. Plant and Animal Genome XI, San Diego, CA, Jan. 11-15.

169. Nguyen, N.T., K.-S. Kim, H. Thomsen, J. Helm and M. F. Rothschild. 2003. Investigation of candidate gene for growth and fatness QTL on the pig chromosome 7. Proc. Plant and Animal Genome XI, San Diego, CA, Jan. 11-15.

170. Otieno, C. J., S. Vleck, C. Jelks, K. S. Kim, N. T. Nguyen, M. F. Rothschild. 2003. Mapping of porcine genes related to human diabetes. Midwest Region Am. Soc. of Anim. Sci./Am. Dairy Sci. Assoc., Des Moines, IA, Abstr. 19.

171. Hu, Z-L, K. Glenn, A. M. Ramos, C. J. Otieno, and M. F. Rothschild. 2004. Expeditor: A pipeline for designing pig primers using human gene structure and pig EST information. Proc. Plant and Animal Genome XII, San Diego, CA, Jan. 10-14.

172. Grapes, L., M. Z. Firat, J. C. M. Dekkers, M. F. Rothschild, R. L. Fernando. 2004. Optimal haplotype structure for linkage disequilibrium-based fine mapping of quantitative trait loci. Midwest Region Am. Soc. of Anim. Sci./Am. Dairy Sci. Assoc., Des Moines, IA, March 15-17.

173. Mote, B. E., J. D. Loy, and M. F. Rothschild. 2004. Identification of SNPs in the insulin-like growth factor gene family and subsequent mapping of *IGF2R* and *IGFBP1* in pigs. Proc. Plant and Animal Genome XII, San Diego, CA, Jan. 10-14.

174. Wilke, V. L., B. P. Kinghorn, M. G. Conzemius, and M. F. Rothschild. 2004. Prediction of inheritance for cranial cruciate ligament disease in the Newfoundland dog. 31st Annual Conference of the Veterinary Orthopedic Society.

175. Wilke, V. L., B. P. Kinghorn, M. G. Conzemius, and M. F. Rothschild. 2004. Prediction of inheritance for cranial cruciate ligament disease in the Newfoundland dog. Midwest Region Am. Soc. of Anim. Sci./Am. Dairy Sci. Assoc., Des Moines, IA, March 15-17.

176. Glenn, K., T. Suwanasopee, D. L. Harris, T. Sornthep, and M. F. Rothschild. 2004. Polymorphisms in the *a-AMY* and *CTSL* genes in *Litopenaeus vannamei*. Proc. Plant and Animal Genome XII, San Diego, CA, Jan. 10-14.

177. Grapes, L., S. Rudd, R. L. Fernando, and M. F. Rothschild. 2004. *In silico* SNP identification from porcine EST sequences and comparative analysis with human SNP density. Proc. Plant and Animal Genome XII, San Diego, CA, Jan. 10-14.

178. Opriessnig T, Anderson MS, Rothschild MF, Evans RB, Fenaux M, Meng XJ. Halbur PG. 2004. Evaluation of differences in host susceptibility to PCV2-associated diseases. *Proc. 18th IPVS, Hamburg, Germany*, abstract #758

179. Opriessnig T, Rothschild MF, Halbur PG. 2005. Differences among pig breeds in susceptibility to porcine circovirus type 2-associated disease. *Proc 3rd Intern Symposium on Genetics of Animal Health, Ames, Iowa.* Abstract p. 105, July 13-15

180. Ciobanu, D. C., S. M. Lonergan, J. W. M. Bastiaansen, A. Mileham, B. Miculinich, C. Schultz-Kaster, A. A. Sosnicki, G. S. Plastow, and M. F. Rothschild. 2005. Association of new Calpastatin alleles with meat quality traits in commercial pigs. 50th Int. Congress of Meat Science and Technology, Helsinki, Finland.

181. Hu, Z.L., S. Dracheva, W. Jang, D. Maglott, J. Bastiaansen, J. Reecy, and M. F. Rothschild. 2005. PigQTLDB - A Pig QTL Database. Proc. Plant and Animal Genome XIII, January 15-20, 2005, San Diego, CA.

182. Mote, B.E., D. Rocha, J. D. Loy, L.R. Totir, R. Fernando, and M. F. Rothschild. 2005. Combining computational statistics and molecular biology to map the causative mutation associated with a polydactyl phenotype in swine. Proc. Plant and Animal Genome XIII, January 15-20, 2005, San Diego, CA.

183. Ramos, A. M., K. Stalder, N. Nguyen, and M. F. Rothschild. 2005. Effect of three cathepsin genes on processing quality traits of fresh and dry-cured hams. Midwest Region Am. Soc. of Anim. Sci., Des Moines, IA, Mar 21-23.

184. Cuttler, S.A. Grapes, M.F. Rothschild, C.H. Stahl. Effect of dietary phosphorus and genetic background on growth performance and IGF-1 levels in young gilts. 2005 Midwest ASAS Annual Meeting.

185. Joao L. Rocha, Daniel Ciobanu, Jessica Magrin, Alan Mileham, Clete Otoshi, Shaun Moss, Max Rothschild, Brian Kinghorn And Hein Van Der Steen, 2005. Quantitative Effects of Dna Markers On Shrimp Growth. Aquaculture America 2005, January 17-20, New Orleans, Louisiana, USA, Pp.69.

186. Hittmeier, L., R Lensing, L Grapes, M.F. Rothschild, C.H. Stahl. Effect of Phosphorous Deficiency and Genetics on Bone Characteristics and Gene Expression in Young Pigs. 2005 Midwest ASAS Annual Meeting

187. Grapes, L., A. Qu, L. Hittmeier, M. F. Rothschild and C. H. Stahl. 2005. Exploring the effect of dietary phosphorous levels on gene expression in two lines of pigs using microarrays. American Association of Animal Science Midwest Region, Des Moines, IA, Mar 21-23.

188. Rothschild M.F., S. J. Lamont, and J. M. Reecy . 2005. Current Status of Animal Genomics. Proceedings Annual AAAS meeting, Washington, DC. Feb 18.

189. Mote, B.E., N. Deeb, and M.F. Rothschild. 2005 Association of Genetic Markers on Sow Longevity and Herd Health. Proceedings of the 3rd international Symposium on Animal health, Ames, July 12-15.

190. Wilke, V.L., M.G. Conzemium, B.P. Kinghorn, P.E. Macrossan, W. Cai, and M.F. Rothschild 2005 Progress Towards Understanding the Genetic of Canine Cranial Cruciate Ligament Rupture. Proceedings of the 3rd international Symposium on Animal health, Ames, July 12-15.

191. Kim, J.J. , K. S. Kim. M. F. Rothschild, J. beaver, A. Rodriguerz-Zas and J. Dekkers. 2005 Joint Analysis of two breed cross populations in pigs to detect polar over dominance QTL. Proceedings for the Integration of Structural and Functional Genomics Conference, Ames, IA. Pg 31

192. Stahl, C.H., L.J. Hittmeier, L. Grapes, and M.F. Rothschild. Genetic background affects bone response to dietary phosphorus. Skeletal Development and Remodeling in Health Disease and Aging. New York Academy of Sciences May, 2005

193. Cutler, S.A., L. Grapes, M.F. Rothschild, and C.H. Stahl. Genetic background impacts growth performance and endocrine parameters during dietary P deficiency in young gilts. 2005 FASS National Meeting.

194. Qu, A., L. Grapes, M.F. Rothschild, and C.H. Stahl. Effect of dietary phosphorus on the gene expression related to energy metabolism in porcine muscle. 2005 FASS National Meeting.

195. Grapes, L, A. Qu, L. Hittmeier, M. F. Rothschild, and C. H. Stahl. Differential effects of dietary phosphorus levels on gene expression in two lines of pigs. 2005 FASS National Meeting.

196. Hittmeier, L., R Lensing, L Grapes, M.F. Rothschild, C.H. Stahl. The Impact of Genetics and Phosphorous Nutrition on Bone Metabolism. 2005 Experimental Biology/International Union of Physiological Sciences Meeting. FASEB JOURNAL 19 (4): A63-A63 Part 1 Suppl. S MAR 4 2005

197. Qu, A., L. Grapes, M.F. Rothschild, and C.H. Stahl. Microarray analysis of the effects of phosphorus on gene expression in porcine muscle. 2005 Midwest ASAS Annual Meeting.

198. Qu, A., L. Grapes, L. Hittmeier, M.F. Rothschild, and C.H. Stahl. Microarray analysis of the effects of phosphorus on gene expression in porcine muscle and liver. 2005 Experimental Biology/International Union of Physiological Sciences Meeting. FASEB JOURNAL 19 (5): A1499-A1499 Part 2 Suppl. S MAR 7 2005

199. Hu, Z., Jie Bao, Max F. Rothschild, Vasant Honavar, and James M. Reecy. 2006. Developing Frameworks and Tools for Animal Trait Ontology (ATO). Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

200. Hu, J. Sean Humphray, Carol Scott, Jane Rogers, Antonio Marcos Ramos, James M. Reecy and Max F. Rothschild. 2006. Regional Genome Sequence Assembly for a Targeted Segment on Porcine Chromosome 17. Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

201. Hu, Z., Sean Humphray, Carol Scott, Stacey N. Meyers, Jane Rogers, Max F. Rothschild. 2006. and James M. Reecy 1 Extension of PigQTLdb: Genome-wide Alignment of BAC FPC Maps and RH Maps for QTL Positional Gene Mining. Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

202. Hu, Z., Max F. Rothschild, and James M. Reecy. 2006. PigQTLdb Extensions: Towards Integrated Genomics Resources Tools. Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

203. Rothschild, M.F. 2006. Industry and Translational Activities of the Swine Genome Sequencing Consortium. Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

204. Glenn, K.L. E. McCormick, M. Ramos, and M. F. Rothschild. 2006. Mapping of the fishy *FMO3* gene under the QTL for off flavor on SSC9. Proc. Plant and Animal Genome XIV, San Diego, CA, Jan. 14-18.

205. Ramos, A. M., Z.-L. Hu, S. Humphray, J. Rogers, J. Reecy and M. F. Rothschild. 2006. From genome scan to fine mapping to sequence information: steps towards the clarification of the mechanisms controlling porcine chromosome 17 QTL for meat quality. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 14-18.

206. Guimaraes, S.E.F., M. F. Rothschild, E. Huff-Lonergan, A. A. Sosnicki, S.B. Jungst, M.Yu, and S. M. Lonergan. 2006. Interaction of MC4R and PRKAG3 genotypes with genetic potential for growth on meat quality traits. Amer. Soc. Anim. Sci. Annual Meeting (in press)

207. Wagner, C.E., E. Huff-Lonergan, M. F. Rothschild, A. A. Sosnicki, S. B. Jungst, K. J. Prusa, and S. M. Lonergan. 2006. Selection for improvement in pig growth rate does not alter fresh pork quality. Amer. Soc. Anim. Sci. Annual Meeting

208. Lonergan, S. M., E. Huff-Lonergan and M. F. Rothschild. 2006. Characterization of muscle glycogen storage and utilization: Influence on pork quality. J. Anim. Sci. 80 (Suppl. 2):54. J. Anim. Sci. 84 (Suppl.1): 113.

209. Wagner, C. E., E. Huff-Lonergan, M. F. Rothschild, A. A. Sosnicki, S. B. Jungst, K. J. Prusa, and S. M. Lonergan. 2006. Effects of selection for rapid growth on fresh pork quality. 2006 Allen D. Leman Swine Conference Proceeding

210. Alexander, L., S. Cutler, M. Yu, M.F. Rothschild, and C.H. Stahl. 2006. Impact of Genetics and Dietary Phosphorus Restriction on Growth Performance and Bone Integrity in Pigs. Amer. Soc. Anim. Sci. Annual Meeting

211. Hu, Z-L., M.F. Rothschild and J. M. Reecy. 2006. NRSP-8 Pig Genome Informatics: databases and resources. Proc. Pig Genome I, Lodi, Italy Feb 20-21.

212. Rogers, J. and Swine genome Sequencing Committee [incl. M.F. Rothschild]. 2006. Pig genome sequencing – progress and prospects. Proc. Pig Genome I, Lodi, Italy Feb 20-21

213. Ramos, A. M., Z.-L. Hu, S. Humphray, J. Rogers, J. Reecy and M. F. Rothschild. 2006. Deciphering porcine SSC17 QTL for meat quality: from genome scan to fine mapping to sequence information. Proc. Pig Genome I, Lodi, Italy Feb 20-21

214. Magajan, A., A. Qu, M.F. Rothschild and C.H. Stahl. 2006. Genetic background alters gene expression in small intestine, liver and bone marrow in response to dietary phosphorus in young pigs. FASEB JOURNAL 20 (5): A1063-A1063

215. Alexander, L.S., S.A. Cutler, M. Yu, M.F. Rothschild and C.H. Stahl. Impact of Genetics and Dietary Phosphorus Restriction on Growth Performance and Bone Integrity in Pigs. 2006 FASS National Meeting.

216. Qu, A., M.F. Rothschild and C.H. Stahl. 2006. Genetic background affects gene expression in response to dietary phosphorus in the kidney of pigs. FASEB JOURNAL 20 (4): A196-A196

217. Mote, B.E., K.J. Stalder, and M.F. Rothschild. 2006. Discovery and Validation of Genetic Markers for Sow Longevity. Allen D. Leman Conference proceedings

218. Mote, B.E., D. Rocha, L.R. Totir, R. Fernando, and M.F. Rothschild. 2006. Pursuing the genetic origin of polydactyl and associated reproductive phenotypes in pigs. Proceed. 30th Conference of the International Society of Animal Genetics.

219. Yu M., Becky Geiger, Nader Deeb, Max F. Rothschild, 2007. Investigation of TXNIP (Thioredoxin-Interacting Protein) and TRX (Thioredoxin) Genes for Growth-Related Traits in Pigs. (Abstract). Submitted to Plant and Animal Genome XV Conference

220. Mote, B.E., K. J. Stalder and M. F. Rothschild. 2007. Candidate Genes for Sow Reproduction and Productive Life. Plant and Animal Genome XIV Jan 13-17.

221. Glenn, K.L., P. S. Van Cleave, M. F. Rothschild, L. P. Carlstrom, N. M. Ellinwood, T. Berryere and S. Schmutz. 2007. Association of *MITF* with white spotting in Beagle crossed dogs and Newfoundland dogs . Plant and Animal Genome XIV Jan 13-17.

222. Schwab, C.R., B. E. Mote, M. F. Rothschild and T. J. Baas. 2007. Evaluation of molecular marker information on the efficacy of Duroc swine selected for intramuscular fat via ultrasound. Proc Midwest An Sci Mtg

223. Alexander, L.S., S.A. Cutler, M.F. Rothschild, and C.H. Stahl. 2007. Dietary phosphorus and genetic background interact to affect growth performance and bone integrity in pigs. Proc Midwest An Sci Mtg

224. Ha, Y., K Do, K Glenn, M F Rothschild and KS Kim (2007) "Investigation of adiponectin gene in Korean native pigs." The 15th Korea Genome organization conference. Sep 21-22 2006, Seoul Korea

225. Onteru, S. K., B. Fan, B. E. Mote, T. Serenius, M. Nikkilae, K. J. Stalder , M.F. Rothschild. 2007. SNP discovery in genes affecting leg health traits in pigs. Proc. International Symposium on Animal genomics for Animal Health, Paris, France, Oct. 23-25.

226. Bowen, D., Z. Hu, Z. -Q. Du, M. F. Rothschild. 2008. Using SNPidentifier to detect SNPs from EST collections that do not contain chromatogram files. Proc. Plant and Animal Genome IX, San Diego, CA, Jan. 12-16.

227. Du , Z. -Q., X. Zhao, M. F. Rothschild, N. V. Vukasinovic, F. Rodriguez, A. C. Clutter. 2008. Positional and Biological Candidate Genes for Hernia and Cryptorchidism in Commercial Lines of Pigs. Proc. Plant and Animal Genome XVI, San Diego, CA, January 12-16.

228. Fan, B., S. K. Onteru, B. E. Mote, T. Serenius, M. T. Nikkilae, K. J. Stalder, M. F. Rothschild. 2008. Association of genes affecting skeletal design and feet and leg soundness in pigs. Proc. Plant and Animal Genome XVI, San Diego, CA, January 12-16.

229. Ha, Y. -K., S. K. Onteru, K. S. Kim, Y. M. Lee, J. J. Kim, B. E. Mote, K. L. Glenn, M. F. Rothschild. 2008. Investigation of Candidate Genes for Growth and Meat Quality QTL on the Pig Chromosome 2. Proc. Plant and Animal Genome XVl. SanDiego, CA, Jan. 12-16.

230. Nikkilae, M., K. Stalder, B. E. Mote, J. Lampe, B. Thorn, M. Rothschild, A. Johnson, L. Karriker, and T. Serenius. 2008. Heritability estimates for structural soundness traits in commercial gilts. J. Anim. Sci. 86:(submitted). (Abstr.29)

231. Onteru, S. K., B. Fan, B. E. Mote, T. Serenius, M. Nikkilae, K. J. Stalder, M. F. Rothschild. 2008. Association of candidate genes to leg and body conformation traits in pigs. ASAS/ADSA Midwest Meeting, Des Moines, IA, Mar. 17-19. Abstr 30.

232. Renaville, B., K. L. Glenn, B. E. Mote, B. Fan, M. F. Rothschild. 2008. SREBP pathway genes as candidate gene markers in country ham production. Proc. Plant and Animal Genome XVI, San Diego, CA, Jan.
12-16.

233. Zhao, X., Z. -Q. Du, N. V. Vukasinovic, F. Rodriguez, A. C. Clutter, M. F. Rothschild. 2008. Candidate gene association studies for hernia and cryptorchidism in commercial lines of pigs. ASAS/ADSA Midwest Meeting, Des Moines, IA, Mar. 17-19.

234. Steibel, J.P., A. M. Ramos, R. J Tempelman, R. O. B, M Wysocki, J. K. Lunney, D. Petry, R. K. Johnson, S. C. Fahrenkrug, B. S. Juneja, J. Garbe, M. F. Rothschild, C. G. Elsik and C. W. Ernst. 2008. Assessment of the Swine Protein-Annotated Oligonucleotide Microarray by utilizing designed control features included on the array. Proceed Plant and Animal Genome XVI. Jan 12-16, San Diego

235. Opriessnig, T D.M. Madson, A.R. Patterson, M.F. Rothschild, X.J. Meng, and P.G. Halbur. 2008. Differences in susceptibility to PCV2-associated lesions and disease in Landrace and Pietrain pigs. IPVS

236. Opriessnig, T D.M. Madson, A.R. Patterson, M.F. Rothschild, X.J. Meng, and P.G. Halbur. 2008. Differences in susceptibility to PCV2-associated lesions and disease in Landrace and Pietrain pigs. NCCVLD

237. Fan, B., S Onteru, B Mote, T Serenius, M Nikkilä, KJ Stalder, MF Rothschild. 2008. Association of Gene Markers Affecting the Principal Components of Skeletal Design and Feet and Leg Soundness in Pigs. ASAS Annual meeting

238. Ramos, A.M., R. P.M.A. Crooijmans, A. Fonesca, H. Kerstens, C. Bendixen, J. Hedegaard, G. Rohrer, T. Smith, Curt Van Tassell, J. F. Taylor, M. F. Rothschild, D. Nonneman, J. Beever, A. Archibald, L. B. Schook and M. A.M. Groenen. 2008. High throughput SNP discovery and validation in the pig: towards the development of a high density swine SNP chip. Proceeding International Animal Genetics Meetings #2234.

239. Hu, Z., E. R. Fritz, S. Dracheva, S. N. Meyers, D. Larkin, B. Abasht, J. Bastiaansen, C. Scott, W. Jang, D. Maglott, S. Humphray, J. E. Beever, S. J. Lamont, H. A. Lewin, J. Rogers, J. Maddox, M. F. Rothschild and J. M. Reecy. 2008. Animal QTLdb: A tool set to warehouse and compare cattle, pigs, chicken and sheep QTL within and between species. Proceeding International Animal Genetics Meeting. # 5026

240. Ernst, C. E. and M. F. Rothschild. 2008. Porcine Microarrays, QTL and Bioinformatic Resources. Swine in Biomedical Research Conf. April, San Diego

241. Rice, J., K. Saunders, and M. F. Rothschild. 2009. A NSF supported Research Education for Undergraduates (REU) training program for recruiting and training future graduate students. Midwestern Section ASAS and Midwest Branch ADSA

242. Groenen MAM, RPMA Crooijmans, AM Ramos, AJ Amaral, H Kerstens, C Bendixen, J Hedegaard, G Rohrer, T Smith, C Van Tassel, JF Taylor, MF Rothschild, Z Hu, D Nonneman, J Beever, A Archibald, A Law, D Milan, M Hansen and L Schook. 2009 Design of the illumina porcine 50k+ snp iselect™ beadchip and characterization of the porcine hapmap population. Swine Genome sequencing W493 in *The International Plant & Animal Genome XVII Conference* , January 10-14, Town & Country Convention Center, San Diego, California, USA.
243. Du, Z.-Q., D. Gorbach, G. Jaramillo, and M.F. Rothschild. SNP discovery for genetic map construction in the Pacific white shrimp. The International Plant & Animal Genome XVII Conference. January 10-14, 2009. San Diego, California. P571.

244. Fan, B., S.K. Onteru, M.T. Nikkilä, K.J. Stalder, and M.F. Rothschild. 2009. Large-scale association studies for reproductive traits in pigs. The International Plant & Animal Genome XVII Conference. January 10-14, 2009. San Diego, California. P535.

245. Gorbach, D.M., Z-L. Hu, Z-Q. Du, and M.F. Rothschild. 2009. Intra- and interspecies SNPs predicted using ESTs from seven shrimp species. The International Plant & Animal Genome XVII Conference. January 10-14, 2009. San Diego, California. P573.

246. Renaville, B., E. Piasentier, M. Vitale, M.F. Rothschild, and A Prandi. 2009. SCD polymorphism affect oleic to stearic acid ratio in San Daniele Ham. The International Plant & Animal Genome XVII Conference. January 10-14, 2009. San Diego, California. P532.

247. Zhao, X., Z.-Q. Du, and M.F. Rothschild. 2009. Comparative gene discovery for canine cryptorchidism in Siberian Huskies. The International Plant & Animal Genome XVII Conference. January 10-14, 2009. San Diego, California. P172.

248. Fan, B., S.K. Onteru, M.T. Nikkilä, K.J. Stalder, and M.F. Rothschild. 2009. Identification of genetic markers associated with fatness and leg weakness traits in the pig. Midwestern Section ASAS and Midwest Branch ADSA. March 16-18, Des Moines, Iowa. Abstract No. 32.

249. Gorbach, D.M., Z-L. Hu, Z-Q. Du, and M.F. Rothschild. 2009. Sequence diversity in shrimp species and how to exploit it. Midwestern Section ASAS and Midwest Branch ADSA. March 16-18, Des Moines, Iowa. Abstract No. 97.

250. Nikkilä, M., K. Stalder, B. Mote, J. Lampe, B. Thorn, M.F. Rothschild, A. Johnson, L. Karriker, and T. Serenius. 2009. Impact of gilts' body composition and body structure on reproductive performance. Midwestern Section ASAS and Midwest Branch ADSA. March 16-18, Des Moines, Iowa. Abstract No. 27.

251. Du, Z.-Q., D.M. Gorbach, Z.-L. Hu, and M.F. Rothschild. 2009. Fatness genes and segmental duplications in pigs. Pig Genome III Conference. November 2-4. Hinxton, UK. Abstract No. 8.
252. Fan, B., Onteru, S.K, Garrick, D., Stalder, K.J, and M.F. Rothschild. 2009. A genome-wide association study for pig production and feet and leg structure traits using the PorcineSNP60 BeadChip. Pig Genome III Conference, November 2-4, 2009, Hinxton, Cambridge, UK. Abstract No. 6.
253. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2009. Whole-genome analyses for genes associated with residual feed intake and related traits utilizing the PorcineSNP60 BeadChip. Pig Genome III Conference. November 2-4. Hinxton, UK. Abstract No. 11.
254. Onteru, S.K., B. Fan, D. Garrick, K.J. Stalder, and M.F. Rothschild. 2009. Whole genome analyses for pig reproductive traits using the PorcineSNP60 BeadChip. Pig Genome III Conference. November 2-4, 2009, Hinxton, Cambridge, UK. Abstract No. 5.

255. Du, Z.-Q., D.M. Gorbach, Z.-L. Hu, and M.F. Rothschild. 2010. Segmental duplications in the pig genome. The International Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. P599.

256. Du, Z.-Q. and M.F. Rothschild. 2010. Construction of a SNP Genetic Map and de novo sequencing for Pacific White Shrimp. The International Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. P640.

257. Fan, B., Onteru, S.K, Garrick, D., Stalder, K.J, and M.F. Rothschild. 2010. Whole genome association analysis body composition and feet and leg structure soundness traits in the pig. The International Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. P605.
258. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2010. Genetic analysis of residual feed intake and its components based on the PorcineSNP60 BeadChip. The International Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. P614.
259. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2010. Whole-genome analyses to determine the genetic basis of residual

feed intake and related traits in swine. National Swine Improvement Federation Conference. December 2-3, Kansas City, Missouri.

260. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2010. Large-scale SNP association analyses of residual feed intake and its component traits in pigs. 9th World Congress on Genetics Applied to Livestock Production. August 1-6, Leipzig, Germany.
261. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2010. Haplotype analyses of residual feed intake based on genotypes from the PorcineSNP60 BeadChip. 32nd Conference of the International Society for Animal Genetics. July 26-30, Edinburgh, UK. Abstract No. 4062.
262. Onteru S.K., B. Fan, D.J. Garrick, K.J. Stalder, and M.F. Rothschild. 2010. Genome-wide analyses for pig reproductive traits using the PorcineSNP60 BeadChip. The International Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. P615.
263. Onteru, S.K., B. Fan, D.J. Garrick, K.J. Stalder, M.F. Rothschild. 2010. Whole-genome association analyses for sow lifetime production, reproduction and structural soundness traits using the PorcineSNP60 BeadChip. 9th World Congress on Genetics Applied to Livestock Production. August 1-6, Leipzig, Germany. Page 47.
264. Onteru, S.K., B. Fan, Z.-Q. Du, D.J. Garrick, K.J. Stalder, M.F. Rothschild**.** 2010. Use of whole genome association study to characterize gene networks for pig reproduction traits. 32nd Conference of the International Society for Animal Genetics. July 26-30, Edinburgh, Scotland. P4018.
265. Zhao, X., S. Onteru, M.F. Rothschild. 2010. A Whole Genome Association Study of Canine Cryptorchidism in Siberian Husky Dogs. The 5th International Conference: Advances in Canine and Feline Genomics and Inherited Diseases. September 22-25, Baltimore, Maryland. Abstract and Poster
266. Rothschild, M.F., D.M. Gorbach, B. Fan, S.K. Onteru, Z.-Q. Du, D.J. Garrick, R.L. Fernando, K.J. Stalder, and J.C.M. Dekkers. 2010. Applications of new porcine genomic tools to trait discovery and understanding genomic architecture. The International. Plant & Animal Genome XVIII Conference. January 9-13, San Diego, California. W614.
267. Zhao, X., H.T. Blair, S.K. Onteru, S.A. Piripi, M.F. Rothschild, K.G. Thompson, and D.J. Garrick. 2010. A genome wide association study and fine mapping for chondrodysplasia of Texel sheep. The International Plant & Animal Genome XVIII. P579.
268. Lunney, J.K., J.P. Steibel, J.M. Reecy, M.F. Rothschild, M. Kerrigan, B.R. Trible, R.R. R. Rowland. 2010. PRRS host genetics consortium: current progress. The International Plant & Animal Genome XVIII. P613.

269. Archibald, A.L., P. Flicek, S. Searle, J. Harrow, J. Reecy, the Ensembl team, the Havana team, Swine Genome Sequencing Consortium (including MF Rothschild). 2010. Annotation of the pig genome. The International Plant & Animal Genome XVIII. W618.

270. Ampaire A. and M.F. Rothschild. 2010. Role of small livestock in poverty eradication and livelihood improvement: Rural Ugandan farmers' experience. Midwestern Section ASAS and Midwest Branch ADSA. March 15-17, Des Moines, Iowa.

271. Ampaire A. and M.F. Rothschild. 2010. Improving nutrition and income of rural farmers in Kamuli, Uganda through training and facilitation in animal production. Ninth Annual Norman Borlaug Lectureship Poster Competition

272. Zhao, X., K.E. Dittmer, S. Onteru, H.T. Blair, K.G. Thompson, M.F. Rothschild, D.J. Garrick. 2010. A novel nonsense mutation in dmp1 gene is responsible for inherited rickets in corriedale sheep. ADSA®-PSA-AMPA-CSAS-ASAS Joint Annual Meeting. July 11-15, Denver, Colorado. Late-Breaking Abstract (LB2) and Poster.

273. Boddicker, N.J., D.J. Garrick, M.F. Rothschild, J. Reecy, R.R.R. Rowland, J.K. Lunney, and J.C.M. Dekkers. 2011. Validation of a major QTL associated with host response to experimental infection with PRRS. International PRRS Symposium. Chicago, IL, December 2-3, 2011.
274. Boddicker, N.J., D.J. Garrick, J. M. Reecy, R. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, and J.C.M. Dekkers. 2011. A major QTL for response to Porcine Reproductive and Respiratory Syndrome Virus in pigs. National ADSA/ASAS Meeting, New Orleans, Louisana, July 10-14, 2011.
275. Bohnert, T.P., A.M. McKnite, R. Moreno, J.A. Galeota, T.W. Moural, S.P. Harris, X. Wang, S. Brewer, M.F. Rothschild, S.D. Kachman, R.K. Johnson, and D.C. Ciobanu. 2011. Variation in Individual Response to Infection in Experimental Challenges with Porcine Circovirus 2b. The International Plant & Animal Genome XVIII Conference. January 15-19, 2011, San Diego, California.
276. Du, Z.-Q., C. Yang, M.F. Rothschild and J.W. Ross. 2011. Evolutionary And Functional Importance Of Novel Human MicroRNA Paralog Groups. The International Plant & Animal Genome XVIII Conference. January 15-19, 2011, San Diego, California.
277. Du, Z.Q., C. Yang, M.F. Rothschild and J.W. Ross. 2011. Lineage-specific microRNA expansion in evolution of complex traits. Genome Informatics. Cold Spring Harbor Laboratory.
278. Gorbach, D.M., Z.-Q. Du, and M.F. Rothschild. 2011. Segmentally duplicated genes in the horse genome. Proc. Plant & Animal Genome XIX Conference, San Diego, CA, Jan. 15-19.
279. Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2011. Genome-wide association study to determine the genetics underlying residual feed intake and related traits in swine. Gordon Research Conference on Quantitative Genetics and Genomics, Galveston, TX, Feb 20-25.
280. Tuggle, C.K., Rogel-Gaillard, C., Loveland, J., Uenishi H., Dawson H., Lunney J., Sang, Y., Zhao, S., Giuffra, E., Botti, S., Reecy, J., Harrow, J., Freeman, T., Archibald, A.L., Murtaugh, M., Hume, D., Morozumi, T., Shinkai, H., Bed'hom, B., Blecha, F., Zhang, G., Mann, K., Zhang, J., Chen, C., Hu, Z.-L., Cheng, R., Huang, T., Rodriguez, Y., Anselmo, A., Badaoui, B., Schwartz, J., Kapetanovic, R., Beraldi, D., and the Swine Genome Sequencing Consortium. 2011. Community annotation of immunity-related genes in the pig genome. 4th International Symposium on Animal Functional Genomics . October 10-12, Dublin, Ireland.
281. Onteru, S. K. and M.F. Rothschild. 2011. Genetic and genomic control of reproductive traits in the pig. International Conference on Frontiers in Reproductive Biotechnology & 21st Annual Meeting of ISSRF. February 9-11, 2011, NDRI, Karnal, India. P40.
282. Onteru, S. K., B. Fan, M. T. Nikkilä, D.J. Garrick, K.J. Stalder, and M.F. Rothschild. 2011. Whole genome association analyses for lifetime reproductive traits in the pig. The International Plant & Animal Genome XIX Conference. January 15-19, 2011, San Diego, California. P595.

283. Young, J.M., D.M. Gorbach, M.F. Rothschild, and J.C.M. Dekkers. 2011. High density SNP analysis of serum IGF-1 concentration in Yorkshire pigs selected for residual feed intake. Proc. Plant & Animal Genome XIX Conference, San Diego, CA, Jan 15-19.
284. Ros, R., S.K. Onteru, D.J.Garrick, and M.F. Rothschild. 2011. Whole genome association analyses for principal components of lifetime reproduction and structural soundness traits in the pig. The International Plant & Animal Genome XIX Conference. January 15-19, 2011, San Diego, California. P596.

285. Onteru, S.K., D.M. Gorbach, J.M. Young, D.J. Garrick, J. Dekkers and M.F. Rothschild. 2012. Validation of whole genome association analyses for residual feed intake in the pig. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P624.

286. Strickland, S.J., C. Ashwell, M. E. Persia, M.F. Rothschild, S. J. Lamont and C. J. Schmidt. 2012. Comparative transcriptome analysis of chicken heart gene expression patterns between a modern broiler and a heritage line. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P596.

287. Kaiser, M., E.E. Sandford, M.E. Persia, M.F. Rothschild, C. Ashwell, C.J. Schmidt and S.J. Lamont. 2012. Physiological differences among chicken breeds in response to embryonic thermal conditioning and post-hatch heat stress. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P602.

288. Li, H., Z-Q. Du, X. Zhao, D.M. Thekkoot, J. Dekkers and M.F. Rothschild. 2012. Genome-wide association analyses for scrotal hernia in pigs. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P639

289. Lunney, J., S. Abrams, I. Choi, J. P. Steibel, M. Arceo, C. Ernst, J. Reecy, E. Fritz, J. Dekkers, N. Boddicker, M.F. Rothschild, M. Kerrigan, B. R. Trible and R. R. R. Rowland. 2012. Genetic control of swine responses to porcine reproductive and respiratory syndrome (PRRS) virus infection; Progress of the PRRS Host Genetics Consortium. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P637.

290. Sun, L., M.E. Persia, C. Ashwell, M.F. Rothschild, S. J. Lamont and C. J. Schmidt. 2012. Transcriptome analysis of broiler chicken liver as a function of heat stress. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P601.

291. Tart, J. K., J.W. Bundy, N.N. Ferdinand, A.M. McKnite, M.F. Rothschild, P.S. Miller, S.D. Kachman, D.J. Garrick, R.K. Johnson and D. Ciobanu. 2012. Genome-wide association study of age at puberty and reproductive longevity in two maternal lines of crossbred gilts. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P631.

292. Zhao, X., S.K. Onteru, K. Dittmer, K. Parton, H. Blair, M.F. Rothschild and D.J. Garrick. 2012. A heritable AGTPBP1 missense mutation is responsible for a lower motor neuron disease in Romney sheep. The International Plant & Animal Genome XX Conference.

January 14-18, 2012, San Diego, California. P587.

293. Yang, C., E.C. Wright, Z-Q. Du, M.F. Rothschild and J. Ross. 2012. Non-coding RNA expression and function in pig reproductive tissues. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California.W697.

294. Onteru S. K., D. M. Gorbach, J. M. Young, D. J. Garrick, J. C. M. Dekkers, and M. F. Rothschild. 2012. Genome wide association study for residual feed intake in the pig. The 33rd conference of the ISAG. July 15-20, Cairns, Australia. (abstract). P4051.

295. Rothschild, M.F. 2012. Consideration of genomic solutions to food security in developing world. Proc. of ISAG. Cairns, Australia. (abstract)

296. Lunney, J., I. Choi, C. J. H. Souza, K. P.C. Araujo, S. Abrams., J. P. Steibel, M. Arceo, C. Ernst, J. M. Reecy, E. Fritz, J. Dekkers, N. Boddicke, E. Waide, X. Zhao, M. F. Rothschild, G. Plastow, B. A. Kemp, J. Harding, M. Kerrigan, B. R. Trible and R. R. Rowland. 2012. Genetic control of swine responses to PRRSV infection: Progress of the PRRS Host Genetics Consortium. Proc. of ISAG. Cairns, Australia. (abstract)

297. Lunney, J., S. Abrams, I. Choi, J. P. Steibel, M. Arceo, C. Ernst, J. Reecy, E. Fritz, J. Dekkers, N. Boddicker, M.F. Rothschild, M. Kerrigan, B. R. Trible and R. R. R. Rowland. 2012. Genetic control of swine responses to porcine reproductive and respiratory syndrome (PRRS) virus infection; Progress of the PRRS Host Genetics Consortium. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P637.

298. Lunney J. K., I. Choi1, C. J. Souza, K. P. C. Araujo, S. M. Abrams, J. P. Steibel, M. Arceo, C. W. Ernst, J. M. Reecy, E. Fritz, J. C. M. Dekkers, N. J. Boddicker, E. H. Waide, X. Zhao, M. F. Rothschild, G. S. Plastow, R. A. Kemp, J. C. S. Harding, M. Kerrigan, B. Trible, and R. R. R. Rowland. 2012. Genetic control of swine responses to PRRSV infection: Progress of the PRRS Host Genetics Consortium. The 33rd conference of the ISAG. July 15-20, Cairns, Australia. (abstract). P5042.

299. Lunney, J., I. Choi, C. J. H. Souza, K. P.C. Araujo, S. Abrams., J. P. Steibel, M. Arceo, C. Ernst, J. M. Reecy, E. Fritz, J. Dekkers, N. Boddicke, E. Waide, X. Zhao, M. F. Rothschild, G. Plastow, B. A. Kemp, J. Harding, M. Kerrigan, B. R. Trible and R. R. Rowland. 2012. Progress of the PRRS Host Genetics Consortium: Variation in gene and protein expression in response to PRRSV Infection. NSIF annual meeting November 29-30. Kansas City (abstract)

300. Thekkoot, D.M., J. M. Young, Z. Du, S. Onteru, M. F. Rothschild and J. C. M. Dekkers. 2012. Whole genome association study for lactation feed efficiency in Yorkshire sows selected for residual feed intake during finishing. NSIF annual meeting November 29-30. Kansas City (abstract)

301. Yang, C., E.C. Wright, Z-Q. Du, M.F. Rothschild and J. Ross. 2012. Non-coding RNA expression and function in pig reproductive tissues. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California.W697.

302. Lamont S. J., M. G. Kaiser, M. F. Rothschild, M. E. Persia, C. M. Ashwell, and C. J. Schmidt. 2012. Genomics of heat stress in poultry. The 33rd conference of the ISAG. July 15-20, Cairns, Australia. (abstract). P5034.

303. Sayre B. L., T. S. Sonstegard, J. Silverstein, H. J. Huson, J. Woodward-Greene, M. Rothschild, V. Nene, D. F. Mujibi, S. Kemp, C. W. Masiga, S. Mubiru, J. F. Garcia, J. Sölkner, and C. P. Van Tasse. 2012. Goat improvement in Africa: Genomic tool development and application in a Feed the Future project. The 33rd conference of the ISAG. July 15-20, Cairns, Australia. (abstract). P4055.

304. Strickland, S.J., C. Ashwell, M. E. Persia, M.F. Rothschild, S. J. Lamont and C. J. Schmidt. 2012. Comparative transcriptome analysis of chicken heart gene expression patterns between a modern broiler and a heritage line. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P596.

305. Yang, C.X., E.C. Wright, Z.Q. Du, M.F. Rothschild and J.W. Ross. Non-coding RNA Expression and Function in Pig Reproductive Tissues. The International Plant & Animal Genome XIX Conference. January 14-18, 2012. San Diego, California.

306. Du, Z. Q. and M. F. Rothschild. 2012. Reduced Representation Library Sequencing Reveals Genome Complexity of Pacific White Shrimp, Litopenaeus vannamei. The International Symposium on Genetics in Aquaculture XI (abstract).

307. Hudson, J., T. S. Sonstegard, J. Silverstein, B. Sayre, J. Woodward-Greene, M; Rothschild, V. Nene, D. Mujibi, S. Kemp, C. Masiga, S. Mubiru, F. Garcia, J. Soelkner and C. P. Van Tassell. 2012. African goat improvement project: a feed the future initiative harnessing genetic diversity for conservation, disease resistance, and improved productivity. BARC UMD fall symposium (Abstract)

308. Kaiser, M., E.E. Sandford, M.E. Persia, M.F. Rothschild, C. Ashwell, C.J. Schmidt and S.J. Lamont. 2012. Physiological differences among chicken breeds in response to embryonic thermal conditioning and post-hatch heat stress. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P602.

309. Lamont, S. J., M.G. Kaiser, M.F. Rothschild, M.E. Persia, C.M. Ashwell and C.J. Schmidt. 2012. Genomics of heat stress in poultry. Proc. of ISAG. Cairns, Australia. (abstract)

310. Abell, C.E., K. J. Stalder, J. C. Dekkers, J. W. Mabry, and M. F. Rothschild. 2013. Economic value of genome-enabled selection in swine. ASAS Midwest meetings (abstract)

311. Engle. T.B., E.E. Jobman, A.M. McKnite, T.W. Moural, J.K. Tart, J.W. Bundy, T.P. Bohnert, S.Y. Barnes, E.H. Davis, J.K. Qiu, J.A. Galeota, S.P. Harris, M.F. Rothschild, G.S. Plastow, R.K. Johnson, S.D. Kachman and D.C. Ciobanu. 2013. Genomic analysis of the susceptibility to PCV2. Plant and Animal Genome XXI (abstract)

312. Lunney, J., I. Choi, C. J. H. Souza, K. P.C. Araujo, S. Abrams., J. P. Steibel, M. Arceo, C. Ernst, J. M. Reecy, E. Fritz, J. Dekkers, N. Boddicke, E. Waide, X. Zhao, M. F. Rothschild, G. Plastow, B. A. Kemp, J. Harding, M. Kerrigan, B. R. Trible and R. R. Rowland. 2013.

Genetic control of swine responses to PRRSV infection: Progress of the PRRS Host Genetics Consortium. Plant and Animal Genome XXI (abstract)

313. Onteru, S.K., D. M. Gorbach, J. Young, D. J. Garrick, J. C M Dekkers, and M. F. Rothschild. 2013. Whole genome association studies of residual feed intake and related traits in the pig. Plant and Animal Genome XXI (abstract)

314. Thekkoot, D., B. Kemp, M. F. Rothschild, and J. C. M. Dekkers. 2013. Estimation Of Genetic Parameters Of Sow Body Traits And Litter Size. ASAS Midwest meetings (abstract)

315. Yang C.X., E.C. Wright, B. Hale, Z.Q. Du, M.F. Rothschild and J. W. Ross. 2013. Small RNA expression and function during oocyte maturation and embryo development in the pig. ASAS Midwest meetings (abstract)

316. Lamont, S.J., M.G. Kaiser, A. Bjorkquist, D. Fleming, M.F. Rothschild, M.E. Persia, C.M. Ashwell and C.J. Schmidt. 2013. Effects of thermal conditioning of embryos and heat stress of chicks on physiological responses of diverse chicken genetic lines. . Plant and Animal Genome XXI (abstract).

317. Kim, E.-S., and M. F. Rothschild. 2014. Evaluation of SNP Haplotypes or regions of missing homozygosity in pigs. Plant and Animal Genome XXII, San Diego, CA.

318. Bjorkquist, A. M.F. Rothschild, M. E. Persia, C. Ashwell, C. J. Schmidt. S..J. Lamont, S.J. 2014. QTL for Body Composition Traits During Heat Stress Revealed in an Advanced Intercross Line of Chickens. World Congress in Genetics Applied to Livestock Production, Vancouver, Canada, 2014. Abstract.

319. Bjorkquist, A. M.F. Rothschild, M. E. Persia, C. Ashwell, C. J. Schmidt. S..J. Lamont, S.J. 2014. A Genome Wide Association Study to Identify Genomic Regions Associated with Response to Heat Stress in Chickens. Proceeding for Climate Change Project Director's meeting, Gainesville, FL

320. Fleming D.S., J.E. Koltes, A.D. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J. Reecy, S. J Lamont. 2014. Analysis of African chicken ecotypes using a 600k SNP chip. International Soc Animal Genetics, Xi'an China

321. Hu Z.L., J. R. Garbe, J. M. Reecy, M. F. Rothschild, Y. Da, J. C.M. Dekkers. 2014. Linkage analysis to improve the swine genome assembly. International Soc Animal Genetics, Xi'an China

322. Wang Y., E.-S. Kim, K. Li, B. Fan, M. F. Rothschild, Z. Tang and B. Liu. 2014. Signature of Selection in Chinese and Western Pig Breeds. International Soc Animal Genetics, Xi'an China

323. Elbeltagy, A.R., E.-S. Kim, A. M. Aboul-Naga, B. Rischkowsky, B. Sayre, and M. F. Rothschild. 2014. Heat stress in desert sheep and goats: Signatures of natural election and initiation GWAS. Plant and Animal Genome XXII, San Diego, CA.

324. Rothschild, M. F., E. S. Kim, and G. Plastow. 2014. Novel tools provide new opportunities for genetic improvement of Swine. 10th World Congress on Genetics Applied Livestock Production, Vancouver, Canada.

325. Thekkoot, D. M., R. A. Kemp, M. F. Rothschild and J. C. M. Dekkers. 2014 Identification of genomic regions associated with sow lactation performance in Yorkshire pigs, Midwest ASAS Annual Meeting #25

131. Fleming D.S., J.E. Koltes, A.D. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J. Reecy, S. J Lamont. 2015. Analysis of African chicken ecotypes using a 600k SNP chip. Gordon Research Council, Italy

132. Walugembe, M., J. C. Hsieh, N. J. Koszewski, S. J. Lamont, M. E. Persia, and M. F. Rothschild. 2014. Effects of Dietary Fiber on Cecal Short Chain Fatty Acid and Microbial Community of Broiler and Layer Chicks. In: Symposium on Gut Health in Production of Food Animals, St. Louis, MO.

133. Wang, Y., B. Liu, C. Wang., H. Wang, B. Fan, Q. Zhang, E.-S. Kim, and M. F. Rothschild. 2014. Copy number variation and signatures of diversifying selection between Chinese and Western pig breeds. Plant and Animal Genome XXII, San Diego, CA.

134. Zurbrigg, K., E.-S. Kim, T. van Dreumel, and M. F. Rothschild. 2014. Testing for genetic association with heart lesions in market hogs that dies in-transit to an Ontario abattoir. Plant and Animal Genome XXII, San Diego, CA.

326. Trenhaile M.D., K.L. Lucot, J.K. Tart, J.W. Bundy, J. F. Thorson, E.M. Keuter, J.R. Wood, M.F. Rothschild, G.A. Rohrer, P.S. Miller, M.L. Spangler, C.A. Lents, R.K. Johnson, S.D. Kachman, and D.C. Ciobanu (2014) AVPR1A alleles are pleiotropic sources of the variation in age at puberty and reproductive longevity in sows, ASAS Midwest Meeting, March 17-19, 2014, Des Moines, IA.

327. Engle, T.B., E.E. Jobman, A.M. McKnite, T.W. Moural, S.Y. Barnes, E.H. Davis, J.W. Bundy, J.K. Tart, T.P. Bohnert, J.K. Qiu, K.L. Lucot, J.A. Galeota, S.P. Harris, M.F. Rothschild, R.K. Johnson, G.S. Plastow, S.D. Kachman, D.C. Ciobanu (2014) Variation in host genetics influences PCVAD susceptibility, ASAS Midwest Meeting, March 17- 19, 2014, Des Moines, IA.

328. Hsieh, J. C., M. Walugembe, N. J. Koszewski, S. J. Lamont, M. E. Persia, and M. F. Rothschild. 2015. Whole Genome Shotgun Sequencing Metagenomics Analysis for the "Common" Scientist International Plant & Animal Genome Conference XXIII, San Diego,CA.

329. Stock J.D., B.E. Mote, T.J. Baas, M.F. Rothschild, and K.J. Stalder. 2015. Characterization and symmetry study of objective feet and leg joint measurements in five separate lines of maternal gilts. Midwest Am Soc Animal Science Mtg

330. Walugembe, M., J. C. Hsieh, N. J. Koszewski, S. J. Lamont, M. E. Persia, and M. F. Rothschild. 2015. Metagenomics Analysis of Broiler and Layer Chicks Cecal Content from High Fiber Diets International Plant & Animal Genome Conference XXIII, San Diego, CA.

331. Walugembe **M.,** L. Liu, V. Sukhwal, K. J. Stalder, D. M. Weiss, and M F Rothschild. 2015. Development of a mobile phone application to predict live body weight in Ugandan village pigs without the use of a scale using various body measurements. Midwest ADS-ASAS Annual Meeting. Des Moines

332. Bjorkquist, A., M.F. Rothschild, M.E. Persia, C. Ashwell, C. Schmidt, and S.J. Lamont. 2015. QTL for blood chemistry components of an advanced intercross line of chickens under heat stress. Poultry Science Association. Abstract 142.

333. Lamont, S.J., A. Bjorkquist, D.K. Coble, M.F. Rothschild, M.F., M.E. Persia, C. Ashwell, and C.J. Schmidt. 2015. Genomics of heat stress in chickens. European Poultry Genetics Symposium. Abstract distributed to attendees.

334. Lamont, S.J., A. Bjorkquist, D.K. Coble, M.F. Rothschild, M.F., M.E. Persia, C. Ashwell, and C.J. Schmidt. 2015. Genomics of heat stress in poultry. Plant & Animal Genome XXIII. Abstract W028.

335. Barrett, N.W., C. J. Schmidt, S. J. Lamont, C. M. Ashwell, M. F. Rothschild and M. E. Persia. 2015. Acute and chronic effects of heat stress on performance and blood gas parameters in laying hens. Poultry Sci annual meeting.

336. Lyons, L.A., J.W. Pearce, E.K. Creighton, N.C. Pedersen, R. Malik, R.J. Todhunter, M.F. Rothschild, D.J. Garrick, N.M. Ellinwood, T. Leeb, H. Lohi, J.S. Munday, W.F. C.B. Kaelin, G. S. Barsh, W.J. Murphy and W.C. Warren. 2015. 99 Lives Cat Whole Genome Sequencing Initiative Update. Advances in Canine and Feline Genetics Conference, Cambridge, UK

337. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015. Genomic analysis of Ugandan and Rwandan chicken ecotypes using a 600k genotyping array. Iowa State University.In: Gordon Research Seminar & Conference on Quantitative Genetics and Genomics (Tuscany, Italy); 2015.

338. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015 Analysis of African chicken ecotypes using a 600k SNP chip. In: Graduate Minority Assistantship Program Symposium. Iowa State University; 2015.

339. Fleming D.S., J.E. Koltes, A. Markey, C.J. Schmidt, C. Ashwell, M.F. Rothschild, J.M. Reecy and S. J. Lamont. 2015. Analysis of African chicken ecotypes using a 600k SNP chip. In: 9th European Symposium On Poultry Genetics. Tuusala, Finland; 2015.

340. Nicolazzi E.L., P.A. Marsan, M. Amills, H.J.Huson, P Riggs, M.F. Rothschild, R. Rupp, B Sayre, T.S. Sonstegard, A. Stella, G. Tosser-Klopp, C.P. Van Tassel, W. Zhang, The International Goat Genome Consortium 2015. An Update on Goat Genomics. EAAP annual meeting.

341. Van Dreumel T., K. Zurbrigg, T. O'Sullivan, R. Friendship, M. Rothschild, and David Alves. 2015. Comparison of heart weights, gross and histological lesions between market hogs that died in transit to the abattoir and hearts from hogs that did not die in transit. WAVLD2015 conference

342. Bertolini F., B. Gandolfi, E.S. Kim, B. Haase, L.A. Lyons and M.F. Rothschild. 2016. Evidence of selection signatures that shape the Persian cat breed. Plant & Animal Genome XXIV, San Diego, California

343. Bertolini F., J. Harding, B. Mote, G.S. Plastow, and M.F. Rothschild. 2016. Genomic differences between pre-weaning survival and mortality of piglets following PEDV outbreaks. Plant & Animal Genome XXIV, San Diego, California

344. Elbeltagy, A.R., E.-S. Kim, J. Mwacharo, A. M. Aboulnaga, B. Rischkowsky, M. F. Rothschild and ADAPTmap and International Sheep Genomics Consortia. 2016 Whole Genome Analysis of Small Ruminant Tolerance to Grazing Stress under Arid Desert Conditions. Plant & Animal Genome XXIV, San Diego, California

345. Van Goor A., K.J. Bolek, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S,J. Lamont. 2016. Quantitative trait loci identified for body temperature, body weight, breast yield, and feed digestibility in an advanced intercross line of chickens under heat stress. Plant & Animal Genome XXIV, San Diego, California

346. Van Goor A., C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S,J. Lamont. 2016. Unique genetic responses revealed in RNA-seq from the spleen of chickens stimulated with lipopolysaccharide and heat. Plant & Animal Genome XXIV, San Diego, California

347. Serão, E.D. Mauch, M.F. Rothschild and J.C.M. Dekkers. 2016. Genome-wide association study (GWAS) for residual feed intake (RFI) and component traits of feed efficiency in pigs divergently selected for RFI. Am. Soc of Anim Sci Midwest Meetings.

348. Rosen B.D., H.J. Huson, A. Staiger, T.S. Sonstegard, J. Silverstein, B.L. Sayre, J. Woodward-Greene, S.G. Schroeder, G. Spangler, E.E. Connor[1], M.F. Rothschild, T. Gondwe, H. Mulindwa, J. Soelkner, C. P. Van Tassell and AGIN Consortium. 2016. African goat improvement network: community-based breeding programs for sustainable genetic improvement. Plant & Animal Genome XXIV, San Diego, California

349. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. Proceedings of the EAAP meetings in Belfast Ireland

350. Rothschild M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.

351. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont. 2016 Immunomodulatory effects of heat stress and lipopolysaccharide on the chicken bursal transcriptome. XIV Avian Immunology Research Group Meeting. 7-10 September 2016. Herrsching am Ammersee, DEU.

352. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt, and S.J. Lamont. 2016. Transcriptome responses to heat stress and lipopolysaccharide in chicken primary immune tissues. 13-14 April 2016. "REAL Sustainability" Symposium. Ames, IA.

353. Mwacharo J.M., A.R. Elbeltagy, E.S. Kim, A. Haile, B. Rischkowsky and M.F. Rothschild. 2016. Indigenous stocks as treasure troves for sustainable livestock production in the 21st century: Insights from small ruminant genomics. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.

354. Bertolini F., A.R. Elbeltagy, F.A. Ponce de Leon, G.A. Gutiérrez and M.F. Rothschild. 2016. Applicability of using bovine, ovine and caprine SNP chips for alpaca and dromedary genomic studies. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.

355. Elbeltagy A. R., D.S. Fleming, F. Bertolini, A.G. Van Goor, C. M. Ashwell, C. J. Schmidt, S.J. Lamont and M.F. Rothschild. 2016. Runs of homozygosity reveal natural selection footprints of some African chicken breeds and village ecotypes. Proceedings of the 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.

356. Mwacharo J.M., E.S. Kim, A.R. Elbeltagy, A.M. Aboul-Naga, B. Rischkowsky, ISGC and M.F. Rothschild. 2016. Genome-wide scans reveal multiple selection sweep regions in indigenous sheep (Ovis aries) from a hot arid tropical environment. Proceedings of the XXIV Plant and Animal Genome Conference, 8-13 January 2016, San Diego, California, USA.

357. Bertolini F., A. Elbeltagy, F.A. Ponce de Leon, G.A. Gutiérrez and M.F. Rothschild. 2016. Applicability of using bovine, ovine and caprine SNP chips for alpaca and dromedary genomic studies. ISAG, 35t^{h} International Society for Animal Genetics Conference, 23-27 July, Salt Lake City, US.

358. Bertolini F. and M.F. Rothschild. 2016. Golden milk: Increasing beta-carotene content in developing countries: first step. ISAG, 35^{h} International Society for Animal Genetics Conference 23-27 July, Salt Lake city, US.

359. Bertolini F., M.F. Rothschild and the ADAPTMAP consortium. 2017. Linkage Disequilibrium Analysis across 126 goat breeds of the ADAPTMAP consortium. PAG, 26^{h} Plant and Animal Genomics Conference, 14-18 January, San Diego, CA, US.

360. Bertolini F., T. Yang, Y. Huang, J.C.S. Harding, M.F. Rothschild and Plastow G.S. 2017. Failure to Thrive Syndrome (PFTS): is there a genetic component? PAG, 26h Plant and Animal Genomics Conference, 14-18 January, San Diego, CA, US.

361. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont**.** Down-regulation in the chicken thymus transcriptome in response to heat stress and lipopolysaccharide. 14-18 January 2017. Plant and Animal Genomes Conference XXV. San Diego, CA.

362. Monson M.S., A.G. Van Goor, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C.J. Schmidt and S.J. Lamont**.** Characterizing responses to heat stress and lipopolysaccharide using transcriptomics in chicken immune tissues**.** 14-18 January 2017. Plant and Animal Genomes Conference XXV. San Diego, CA.

363. Talentia A., F. Bertolini, S.Frattini, A. Elbeltagy, G. Pagnacco, B. Coizet, A. M. Aboul-Naga, J. M. Reecy, M. Moaeen-ud-Din, M.F. Rothschild, P. Crepaldi and the Italian Goat Consortium. 2016. Initial genomic characterization of Italian, Egyptian and Pakistani goat breeds. Proceeding of Veterinary and Animal Science Days 2016, 8th- 10th June, Milan, Italy Bertolini F., E. Rochat, S. Joost, B. Servin, P. Crepaldi, A. Stella, and M.F. Rothschild MF. 2017. A worldwide investigation of the effects of climate selection on goat genomes. ISAG, 36th International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.

364. Bertolini F., S. Bovo S, M.F. Rothschild and L. Fontanesi 2017. Mining the European Sea Bass (Dicentrarchus labrax) genome for the characterization of tandem repeat variability. ISAG, 36th International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.

365. Bertolini F, K. Zurbrigg, T. van Dreumel, T. O'Sullivan, and M.F. Rothschild. 2017. Investigating the genomic basis of pigs that have died in transit. ISAG 36th International Society for Animal Genetics Conference, 16-21 July, Dublin, Ireland.

366. Stock, J.D., A.K. Johnson, M.F. Rothschild, and K.J. Stalder. 2017 Selecting for feet and leg traits that reduce the occurrence of lameness. Invited Speaker –1st Pig Welfare Symposium, Des Moines, IA, USA

367. Bertolini F, G. Schiavo, G. Galimberti, S. Bovo, M. D'Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild, L. Fontanesi. 2018. Getting to the meat of the matter: Identification of genomic regions associated with dry-cured ham quality and production traits in Italian Duroc pigs. 11th World Congress on Genetics Applied to Livestock Production, 11–16 February, Auckland, New Zealand.

368. Bertolini F, J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P.D. Deshpande, V. Potdar, K. Bhave, A.B. Pande, M.F. Rothschild. 2018. Marker discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. 11th World Congress on Genetics Applied to Livestock Production, 11–16 February, Auckland, New Zealand.

369. Bertolini F, G. Schiavo, G. Galimberti, S. Bovo, M. D'Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild, L. Fontanesi. 2018. Genome Wide Association Analyses for Dry Cured Ham Related Traits in Italian Duroc Pigs**. 26th** Plant and Animal Genome, 13-17 Jan, San Diego, CA, US.

370 Bertolini F, J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P.D. Deshpande, V. Potdar, K. Bhave, A.B. Pande, M.F. Rothschild. 2018. Identification of Genetic Markers Associated with Beta Carotene Levels in Buffalo and Dairy Cattle Milk: An Opportunity to Improve Milk Quality in India. **26th** Plant and Animal Genome, 13-17 Jan, San Diego, CA, US.

371. Bertolini F., G. Schiavo, S. Tinarelli, M. Gallo, M.F. Rothschild and L. Fontanesi. 2018. The effects of selection on the genomic architecture of the Italian Large White and Duroc heavy pigs. 69th Annual Meeting of the European Federation of Animal Science (EAAP), Dubrovnik, Croatia, 27th to 31st August.

372. Rowland, K. J.C.F. Hsieh, C.M. Ashwell, M.E. Persia, M.F. Rothschild, C. Schmidt and S.J. Lamont. 2018. GWAS of production and iSTAT traits in heat stressed white laying hens. Poultry Breeders Roundtable, St. Louis

373. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. Proceedings of the National Breeders Roundtable Program. St. Louis, Missouri, USA, May 17 – 18.

374. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. Proceedings of the World Congress on Genetics Applied to Livestock Production. Paper 241

375. Walugembe, M., F. Bertolini, C.M.B. Dematawewa, A. Elbeltagy, C. J. Schmidt, S. J. Lamont and M.F. Rothschild. 2018. Detection of selection signatures among Brazilian, Sri Lankan, and Egyptian chicken populations under different environmental conditions. Proceedings of the International Plant & Animal Genome XXVI (PAG XXVI). San Diego CA, USA, January 13th -17th. Poster presentation.

376. Chinchilla-Vargas J., K. Kerns and M.F. Rothschild. 2018. Climatic and lunar effects on quality traits of boar semen. ASAS Midwest Meeting Omaha NE

377. Gorla, E., F. Bertolini, M. G. Strillacci, M. C. Cozzi, S. I. Roman-Ponce, F. J. Ruiz, C.M.B. Dematawewa, D. Kugonza, A. Elbeltagy, C. Schmidt, S. J. Lamont, A. Bagnato and M. F. Rothschild. 2018. Genomic variability in a worldwide chicken populations based on Copy Number Variant. 69th Annual Meeting of the European Federation of Animal Science (EAAP), Dubrovnik, Croatia, 27th to 31st August.

378. Gorla, E., F. Bertolini, M. G. Strillacci, M. C. Cozzi, S.I. Roman-Ponce, F. J. Ruiz, V. M. Vega Eliezer, C. M.B. Dematawewa, D. Kugonza, A. Elbeltagy, C. J. Schmidt, S. J. Lamont, M. F. Rothschild and A. Bagnato. 2019. Genomic Diversity Using Copy Number Variations and Single Nucleotide Polymorphism in Worldwide Chicken Populations. Proceedings of the International Plant & Animal Genome XXVII (PAG XXVII). San Diego CA, USA, January 13th -17th. Poster presentation.

379. Chinchilla-Vargas, J., F. Bertolini, J.R. Khadse, A. Juneja, P.D. Deshpande, P.M. Kakramjar, A. R. Karlekar, A.B. Pande, R. L. Fernando and M.F. Rothschild. 2019. SNP discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. Proceedings of the International Plant & Animal Genome XXVII (PAG XXVII). San Diego CA, USA, January 13th -17th. Poster presentation.

380. Bertolini1 F., A. Ribani, F. Capoccioni, L. Buttazzoni, V. J. Utzeri, S. Bovo, M. Caggiano, L. Fontanesi and M. Rothschild. 2019. Whole genome analyses of gilthead seabream (Sparus aurata) identify a major QTL for "albinism". International Plant & Animal Genome XXVII (PAG XXVII). San Diego CA, USA, January 13th -17th. Poster presentation.

Symposia and Invited Talks

1. Miller, R. H., R. E. Pearson and M. F. Rothschild. 1980. Effects of selection for milk yield on incidence of clinical mastitis. Int. Sym. on Resistance Factors and Genetic Aspects of Mastitis Control. Warsaw, Poland, October.

2. Rothschild, M. F. 1980. Are tested boars a bargain: A comparison of relative economic values and prices paid for centrally tested boars. Proc. National Swine Improvement Fed.

3. Rothschild, M. F. 1983. Selection for disease resistance. Iowa Pork Congress, Des Moines, IA, January.

4. Rothschild, M. F. 1984. Engineering genetics for the future. American Pork Congress, March.

5. Rothschild, M. F. 1984. New genetic approaches to improved disease resistance in the pig. National (Poultry) Breeders Roundtable, May 3-4.

6. Rothschild, M. F. 1984. The role of statistics in animal breeding. Presented at the symposium "New statistical methods in animal breeding and genetics," American Society of Animal Science Annual Meeting, Columbia, MO, August 8.

7. Christian, L. L. and M. F. Rothschild. 1985. Breeding for pork value. Iowa Pork Congress, Des Moines, IA, January 21.

8. Rothschild, M. F. 1986. Selection for front leg soundness and its relationship with Mycoplasma arthritis. Iowa Pork Congress, Des Moines, January 28.

9. Rothschild, M. F., Ch. Renard, P. Sellier, M. Bonneau, and M. Vaiman. 1986. Swine lymphocyte antigen (SLA) haplotype effects on male genital tract development and androstenone level. Proc. 3rd. World Cong. on Gen. Applied to Livestock, Lincoln, NE, July 17-22

10. Lawrisuk, L. S., R. F. Ross, M. F. Rothschild, L. L. Christian, and D. L. Meeker. 1986. Relationship between front leg soundness and Mycoplasma hyosynoviae infection in Duroc swine. Proc. 3rd World Cong. on Gen. Applied to Livestock, Lincoln, NE, July 17-22.

11. Rothschild, M. F. 1987. Genetic control of immune response: problems and prospects for the future. Proc. Illinois State Vet. Med. Assoc. annual meetings.

12. Rothschild, M. F. 1987. The role of the swine major histocompatibility complex in immune response and reproduction. Presented at Ausschuss fur genetisch-statistische Methoden in der Tierzucht, Wolfenbuttel, W. Germany, March 8-10.

13. Rothschild, M. F. 1987. Pig selection with a view to disease resistance. Rassegna Suinicola Internazionale. Reggio Emilia, Italy, May 1.

14. Rothschild, M. F. 1987. Genetic control of front leg structure in Duroc swine. National (Poultry) Breeders Roundtable, St. Louis, MO, May 8.

15. Rothschild, M. F. 1987. Prospects for genetic improvement through gene identification and transfer in swine. National Swine Improvement Federation Annual Meetings, St. Louis, MO, Dec. 7.

16. Rothschild, M. F. 1987. Biotechnology in Animal Science and collaborating departments. 4th Zootechische Almanak State Agricultural University, Wageningen, Netherlands.

17. Rothschild, M. F. 1988. The role of the swine major histocompatibility complex in immune response and reproduction. Osborne Research Club, Ames, IA, Jan. 19.

18. Rothschild, M. F. 1988. The role of the swine major histocompatibility complex in immune response, reproduction and performance traits. University of Arizona, April 20.

19. Rothschild, M. F. 1988. Genetic interrelationships to the immune system. American Society of Animal Science 80th Annual Meeting, Rutgers University, July 20.

20. Rothschild, M. F. 1988. The genetic interrelationships of disease, reproduction and leg soundness in swine. Proceedings of the National Swine Improvement Federation Annual Meeting, Dec. 4-6.

21. Rothschild, M. F. 1989. Swine breeding research priorities for the 1990s. Midwest Meetings of the American Society of Animal Science, March 22-24.

22. Rothschild, M. F. 1989. Genetic engineering-Potentials for pork production. World Pork Expo, Springfield, IL, June 18-20.

23. Rothschild, M. F. 1989. The production and evaluation of high quality lean market pigs. U. S. Feed Grains Council Presentation, Seoul, S. Korea, Sept. 15-22.

24. Rothschild, M. F. 1989. Aspects of function and structure of swine major histocompatibility complex genes. Department of Meat and Animal Sciences, University of Wisconsin, Madison, Oct. 25.

25. Rothschild, M. F. 1990. The role of biology in future pig breeding programs. Proc. 4th World Congress on Genetics Applied to Livestock Production, Edinburgh, Scotland, UK, July 23-27, Vol XV, pp. 415-426.

26. Rothschild, M. F., D. L. Hoganson, C. M. Warner, and N. K. Schwartz. 1990. The use of major histocompatibility complex class I restriction fragment length polymorphism analysis to predict performance in the pig. Proc. 4th World Congress on Genetics Applied to Livestock Production, Edinburgh, Scotland, U.K., July 23-27, Vol XIII, pp.125-128.

27. Rothschild, M. F. 1990. Selection under challenging environments. Proc. International Conference on Disease Resistance in Farm Animals, Bangor, Wales, UK, Sept. 11-15.

28. Rothschild, M. F. 1990. Genetic engineering and animal production systems. Proc. VASHkNill Conference, Suszdal, USSR, Oct. 4-5.

29. Rothschild, M. F. 1991. The structure and function of the swine major histocompatibility complex. Amer. Soc. Anim. Sci. meetings, Laramie, WY.

30. Rothschild, M. F. 1991. The Chinese breeds - What we have learned and how it will impact pork production in the upper Midwest. Land O'Lakes Farm Day, Fort Dodge, IA.

31. Rothschild, M. F. 1991. Accomplishments, contributions and opportunities of modern genetic research to the swine industry. Presentation at Lilly Animal Research Laboratories, Greenfield, IN.

32. Rothschild, M. F. and C. M. Warner. 1991. Molecular analysis of pig chromosome 7 with special emphasis on the SLA complex. PiGMaP meeting, Toulouse, France, Dec. 6.

33. Rothschild, M. F. and C. K. Tuggle. 1991. Cloning members of the Pou-domain gene family for use in swine genome mapping and marker-assisted selection. PiGMaP meeting, Toulouse, France, Dec. 6.

34. Rothschild, M. F. 1992. Proyecto Americano sobre el mapa genetico porcino [American pig gene mapping project]. Proc. of the "Simposio Internacial de Porcinocultura SEMPOR'92", Lorca, Spain, Sept. 13-15, pp. 177-183.

35. Rothschild, M. F. 1992. Mapping the pig genome. Proceedings of the Minnesota Swine Conference for Veterinarians, Minneapolis, MN, Sept. 20-22, pp. 75-82.

36. Rothschild, M. F. 1992. Opportunities in the selection for genetic resistance to disease. Proceedings of the Minnesota Swine Conference for Veterinarians, Minneapolis, MN, Sept. 20-22, pp. 145-150.

37. Rothschild, M. F. 1992. Discussing techniques for genetic evaluation. Iowa Purebred Swine Council Seminar," A Vision for the Future, Your Business, Your Profit. Ames, IA, Nov. 10.

38. Rothschild, M. F. 1992. Role of biotechnology in pig breeding. Proc.s of National Swine Improvement Federation, Omaha, NE, Dec. 6-8.

39. Rothschild, M. F. 1993. Report on U.S. gene mapping activities. PiGMaP Meeting, Brussels, Belgium, June 18-19.

40. Rothschild, M. F. 1993. Gene mapping research at Iowa State University. INRA, Jouy-en-Josas, France, June 21.

41. Rothschild, M. F. 1993. Coordination of U.S. gene mapping activities. NRSP-8 meeting, Salt Lake City, UT, Nov. 18.

42. Rothschild, M. F. 1993. Coordination of U.S. gene mapping activities. Proc. NSIF annual meeting, St. Louis MO, Dec. 6.

43. Rothschild, M. F. 1994. Update on U.S. pig gene mapping activities. Proc. PiGMaP Pig Gene Mapping Meeting, Edinburgh, Scotland, February.

44. Rothschild, M. F. 1994. Pig gene Mapping. USDA/ARS Poultry Research Laboratory, East Lansing, MI, April 14.

45. Rothschild. M. F. 1994. Genome mapping in livestock: A journey, not a destination. Future Genetics for the Animal Industry, St. Louis MO, May 4.

46. Rothschild, M. F. 1994. What can be learned from our competing industries: lessons from the pig industry. Proc. Beef Improvement Federation annual meeting, Des Moines, IA, June 1.

47. Rothschild, M. F. 1994. "Synthesis." Proc. National Workshop on Animal Genome Research, Winnipeg, Canada, June 17-18.

48. Rothschild, M. F. 1994. Gene mapping and the identification of economic trait loci. PIC, Franklin, KY, June 21-23.

49. Rothschild, M. F. 1994. Integration of quantitative and molecular genetic strategies in livestock breeding: progress, prospects and issues. Am. Soc. Anim. Sci. Meeting, Minneapolis, MN, July 12.

50. Rothschild, M. F. 1994. Update on U.S. pig gene mapping activities. Int'l. Soc.Anim. Gen. Pig Gene Mapping Workshop, Prague, Czech Republic.

51. Rothschild, M. F., C. Jacobson, D. A. Vaske, C. K. Tuggle, T. Short, S. Sasaki, G. R. Eckardt and D. G. McLaren. 1994. A major gene for litter size in pigs. Proceeding of the

5th World Congress on Genetics Applied to Livestock Production, Guelph, Canada, Aug. 6-13.

52. Rothschild, M. F. 1994. Identifying quantitative trait loci (QTL) in pigs: Problems and prospects. Proc. of the National Swine Improvement Federation, Dec. 4-5.

53 Rothschild., M. F. 1995. Gene mapping: Its importance in future swine production. Proc. Iowa Feed and Nutrition Seminar, Jan. 16.

54. Rothschild, M. F. 1995. Marker assisted selection- potential for changing the face of animal agriculture. Amer. Assoc. Advanc. Science (AAAS) Annual Meeting, Atlanta, GA, Feb. 21.

55. Rothschild, M. F. 1995. Gene mapping and identification of important genes in livestock. Canadian Holstein meetings, Guelph, Canada, March 26-28.

56. Rothschild, M. F. 1995. Estrogen receptor is a major gene for litter size in pigs. Proc. National Breeders Roundtable, St. Louis, MO, May 4.

57. Rothschild, M. F. 1995. Gene mapping and marker assisted selection in livestock: Prospects and problems. Proc. Canadian Society of Animal Science Meetings, Ottawa, Canada, July 12.

58. Rothschild, M. F. 1995. Molecular genetic approaches to improved pig performance. Professional Swine Management Certification Series, Dec. 15.

59. Rothschild, M. F. 1996. Advances in gene mapping in the pig. Emerging Technologies Extension Conference, Iowa State University, Ames, IA, January 10.

60. Rothschild, M. F. 1996. Investigation of candidate genes and QTL in pigs. Brigham Young University, Provo, UT, January 11.

61. Rothschild, M. F. 1996. Investigation of candidate genes and QTL in pigs. Sequana Therapeutics, La Jolla, CA, January 16.

62. Rothschild, M.F. 1996. Gene mapping in the pig. PiGMaP Meeting, Amsterdam, Netherlands. February 24.

63. Rothschild, M. F. 1996. History of Animal breeding at ISU. Animal Science Seminar, Iowa State University, Ames, IA, March 22.

64. Rothschild, M.F. 1996. Using quantitative trait loci to improve domestic livestock. Proc. Iowa Academy of Science, April 26.

65. Rothschild, M. F. 1996. Advances in gene mapping in the pig. Korean Livestock Symposium, Korea, May 20.

66. Rothschild, M. F. 1996. Candidate genes and QTL in the pig. Seoul National Agricultural University, Seoul, Korea, May 21.

67. Rothschild, M. F. 1996. Genetics and reproduction in the pig. Proceedings Int. Congress on Animal Reproduction. Sydney, Australia, July 2.

68. Rothschild, M. F. 1996. Genetics and reproduction in the pig. Animal Breeding seminar, Iowa State University, Ames, IA, Sept. 30.

69. Rothschild, M. F., L. Wang and L. C. Christian. 1996. Unlocking the secret of pig genes. Biotechnology in the 21st Century Conference, Ames, Oct. 21.

70. Rothschild, M. F. and C. W. Ernst. 1996. Individual gene effects on meat and carcass quality. National Swine Improvement Federation, Ontario Carcass Symposium Joint Conference, Ottawa, Ontario, Canada, Dec. 5-7.

71. Rothschild, M. F. 1996. Advances in gene mapping. National Swine Improvement Federation Conference and the Ontario Carcass Appraisal Project Symposium, Dec. 6.

72. Rothschild, M. F. 1997. ISU gene mapping results. PiGMaP, Bologna, Italy, Feb. 2-3.

73. Rothschild, M. F. 1997. Molecular genetic improvement of reproduction in pig. Italian Pork Producers, Reggio Emilla, Italy, Feb. 4.

74. Rothschild, M. F. 1997. Gene mapping and QTL prospects and problems. Pfizer Drug, Croton, CT, Feb. 24.

75. Rothschild, M. F. 1997. Identification, mapping and analysis of economically important traits in pigs. Departmental Science, University of Nebraska, March 31.

76. Rothschild, M. F. 1997. Pigs, patents and peccadillos. Departmental Science, University of Nebraska, April 1.

77. Rothschild, M. F. 1997. Gene mapping prospects for the future. Undergraduate class lecture, University of California, Davis, April 24.

78. Rothschild, M. F. 1997. Identification of genes for economically important traits in the pig. An. Sci. Departmental seminar, University of California, Davis, April 24.

79. Rothschild, M. F. 1997. Identification of major genes and quantitative trait loci in the pig. Proc. National Swine Improvement Federation, Des Moines, IA, December 5.

80. Rothschild, M. F. 1998. Identification of quantitative trait loci and interesting candidate genes in the pig: Progress and Prospects. 6th World Congress on Genetics Applied to Livestock Production, Armidale, Australia, Jan. 11-16.

81. Vincent, A. L., G. Evans, T. H. Short, O. I. Southwood, G. S. Plastow, C. K. Tuggle, and M. F. Rothschild. 1998. The prolactin receptor gene is associated with increased litter size in pigs. 6th World Congress on Genetics Applied to Livestock Production, Armidale, Australia, Jan. 11-16.

82. Rothschild, M. F. 1998. Advances in pig genome mapping. Proceedings 8th World Congress on Animal Production, Seoul, Korea, June 30.

83. Rothschild, M. F. 1998. Major gene effects of meat and carcass quality. Proc. Korea Swine Producers Meeting, Seoul, Korea, July 1.

84. Rothschild, M. F. 1998. Advances in pig genome mapping. Proc. Korean Swine Producers Meetings, Seoul, Korea, July 1.

85. Rothschild, M. F. 1998. Mapping genes for fatness and growth on pig chromosome 13. A search in the region close to the PIT1 gene. Chromosome 13 Workshop, Auckland, New Zealand, Aug. 9.

86. Rothschild, M. F. 1998. QTL and candidate genes for fertility in the pig. Pig Blood Groups ISAG Workshop, Auckland, New Zealand, Aug. 10.

87. Rothschild, M. F. 1998. QTL and candidate genes in the pig. ISAG Pig Gene Mapping Workshop, Auckland, New Zealand, Aug. 11.

88. Rothschild, M. F. 1998. Selection for disease resistance. National Swine Improvement Federation Meetings, East Lansing, MI, Dec. 4-5.

89. Rothschild, M. F. 1999. Incorporation of biotechnology into animal breeding and genetic programs. Midwest American Society of Animal Science Meetings, Des Moines, IA, March 16.

90. Rothschild, M. F. 1999. Identification of interesting reproduction and performance candidate genes in the pig. British Pig Breeders Roundtable, Wye, England, March 25.

91. Rothschild, M. F. 1999. Genetic enhancement of agriculturally important animals. Animal Science Departmental Seminar, Iowa State University, Ames, IA, April 9.

92. Rothschild, M. F. 1999. Candidate gene analysis to detect genes controlling traits of economic interest in domestic livestock. International Symposium on Animal Breeding and Genetics, Vicosa, Brazil, Sept. 24.

93. Rothschild, M. F. 1999. Methods to determine genetic diversity. Discovery Conference, Nashville, TN, Nov. 2.

94. Rothschild, M. F. 2000. Advances in pig molecular genetics, gene mapping, and genomics. X Reunion Nacional de Mejora Genetica Animal, Caldes de Montbui, Spain, June 8-9.

95. Grapes, L. and M. F. Rothschild. 2001. Identification of genes related to reproductive traits in swine. Brazilian Reproduction World Congress, Bello Horizante, Aug. 1-5, published in Rev. Bras. Reprod. Anim. 25(2):71-76

96. Tuggle , C. K., R. S. Prather, M. B. Soares, T. Casavant, D. Pomp, M. F. Rothschild, and W. Beavis. 2001. Gene discovery and functional genomics in the pig. Proc. National Swine Improvement Federation, St. Louis, MO, Dec. 6-7, 2001, p. 12

97. Rothschild, M. F. 2002. Patenting of genetic inventions in animal breeding. AB Chapman Invited Lecturer, Univ. of Wisconsin, Madison, May 5.

98. Rothschild, M. F. 2002. The role of genomics in the swine industry. Proc. 17th Congress of the International Pig Veterinary Society, Ames, IA, June 2-5, Vol 1: pp. 25-34.

99. Kim, K. S., L. L. Anderson, J. M. Reecy, N. T. Nguyen, G. S. Plastow and M. F. Rothschild. 2002. Molecular genetic studies of porcine genes for obesity International Congress on Obesity. San Paulo, Brazil. August 25

100. Rothschild, M. F. 2002. Patenting of innovations in Animal Breeding and Genetics. 7th World Congress on Genetics Applied to Livestock production. Plenary Talk 03. Montpellier, France, August 18-23.

101. Rothschild, M. F. 2002. The role of genomics in the pig industry. PIC China producers conference, Sept. 20.
102. Rothschild, M.F. 2002. Transferring biotechnology to swine genetic programs: From lab to pork. Spanish Swine Breeders Conference, Barcelona, Spain, Nov. 5.Rothschild, M. F. 2002. Approaches and limitations to measuring genetic diversity. EEC sponsored Conference on Swine Genetic Diversity, Cordoba, Spain, Nov. 7.

104. Ciobanu, D. S., S. M. Lonergan, J. W. M. Bastiaansen, M. Malek, E. J. Huff-Lonergan, G. S. Plastow and M. F. Rothschild. 2002. Evidence for new alleles in the Calpastatin gene associated with meat quality traits. 7th World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 11-10.

105. Thomsen, H., J.C.M. Dekkers, H.K. Lee and M. F. Rothschild. 2002. Characterisation of quantitative trait loci for growth and meat quality in a breed cross in swine. 7th World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 15-05

106. Grapes, L., R. Fernando, and M. F. Rothschild. 2002. Analysis of methods for fine mapping quantitative loci using linkage disequilibrium. 7th World Congress on Genetics Applied to Livestock Production, Montpellier, France, Aug. 19-23, Communication Number 21-19

107. Chaiwong, N., J. C. M. Dekkers, R. L. Fernando and M. F. Rothschild. 2002. Introgressing multiple QTL in backcross breeding programs of limited size. 7th World

Congress on Genetics Applied to Livestock Production, Montpellier, France, August 19-23, Communication Number 22-08.

108. Rothschild, M. F. 2003. The pig genome, identification of genes affecting traits of economic importance in the pig. Proc."Bridging the biotech divide" – Symposium on Emerging Issues in Biotechnology, N.C. A&T State University, Greensboro, NC, March 25.

109. Rothschild, M. F. 2003. Identification of genes for traits of economic importance in the pig. University of Mexico Veterinary School Symposium, Mexico City, Mexico, May 22.

110. Rothschild, M. F. 2003. Identification of genes for improved pig performance. PIC Mexico Pig Seminar, Puerta Vallarta, Mexico, May 24.

111. Rothschild, M. F. 2003. Identification of genes for carcass merit and meat quality. Proc. Canadian Society of Animal Science, Saskatoon, Saskatchewan, Canada, June 12.

112. Rothschild, M. F. 2003. Genetics of meat quality in pigs. Proc. Summer Swine Seminar, Saskatoon, Saskatchewan, Canada, June 13.

113. Rothschild, M.F. 2003. Protection of gene resources and free exchange of germplasm. Ensminger Conference in Gyongyos, Hungary, Hungarian Journal of Animal Science 5: (Suppl. 28-30).

114. Rothschild, M. F. 2003. Use of biotechnology and molecular genetics in swine selection programs. Ensminger Conference in Gyongyos, Hungary, Hungarian Journal of Animal Science 5: (Suppl.82-90).

115. Rothschild, M. F. 2003. Genetics of leg structure in the pig and scoring methods. PIC Health Team Veterinarian Meeting, Kansas City, KS, Oct. 22.

116. Rothschild, M. F. 2003. From a sow's ear to a silk purse: The promise of genomics. First Presidential Lecture, Iowa State University, Ames, Nov. 17.

117. Dekkers, J., J.-J. Kim, M. Malek, H. Thomsen, H. Lee, H.-H. Zhao, and M. F. Rothschild. 2003. A genome scan to detect QTL affecting growth, composition, and meat quality trait in a Berkshire x Yorkshire cross. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 37.

118. Dekkers, J., H. Thomsen, H. Lee, M. Malek, and M. F. Rothschild. 2003. Detection of imprinted QTL in the Berkshire x Yorkshire cross. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 76.

119. Kim, J.-J., J. Dekkers, S. Rodriguez-Zas, J. Beever, and M. Rothschild. 2003. Joint analysis of the Berkshire x Yorkshire and Berkshire x Duroc crosses for QTL detection. In: Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 71.

120. Rothschild, M. F., D. Ciobanu, S. Lonergan, J. Dekkers, and K. Stalder. 2003. Identification of genes for carcass merit and meat quality in the pig. Proc. 28th National Swine Improvement Federation Meeting, Des Moines, IA, Dec. 4-5, p. 84.

121. Rothschild, M.F. 2004. Use of molecular gentics to improve meat quality in the pig. Texas A&M University Veterinary Pathobiology departmental seminar. March 8.

122. Rothschild, M.F. 2004 Evidence for polar overdominace in pigs. British Pig breeders Roundtable, April 22.

123. Rothschild, M.F. 2004. The role of genomics. Presented at Seoul University, Seoul Korea, and Yeounam University, Deagu, Korea, May 13-16.

124. Rothschild, M.F. 2004. The pig as a model for studying human obesity. Conference on animal models to study obesity. As, Norway, June 17.

125. Rothschild, M.F. 2004. What is the value of DNA sequencing to the pork industry. Monsanto symposium in St Louis, MO, July 28.

126. Rothschild, M.F. 2004. The role of molecular genetics and genomics in animal improvement. Nordic Ministers of Agriculture annual conference. Akureyi, Iceland, August 12.

127. Rothschild, M.F. 2004. The use of biotechnology in animal improvement. Ensminger School in Seoul, Korea, October 13.

128. Rothschild, M. F. 2004. What will molecular science bring to the table. PIC Symposium, Niagara on the Lake, Canada. Symposium Proceedings. October 28.

129. Rothschild, M.F. 2004 The role of genomics in improving society. Phi Sigma Pi, Iowa State University, November 15

130. Rothschild, M.F. 2004 Use of molecular markers to improve pork production, AgroSuper in Santiago, Chile, November 17-19

131. Rothschild, M.F. 2005. Issues in Animal Patents. Iowa State Univeristy Winter Bioethics Retreat. January 7.

132. Rothschild M.F., S. J. Lamont, and J. M. Reecy . 2005. Current Status of Animal Genomics. Proceedings Annual AAAS meeting, Washington, DC. Feb 18

133. Mote B., N. Deeb, O. Southwood, and M. F. Rothschild. 2005. Applying genetic marker technology to improve sow longevity. Proc. Amer. Assoc. Swine Veterinarians, Toronto, Canada, March 5.

134. Rothschild, M.F. 2005. Advances in swine genomics. ILRI invited presentation, April 9, 2005.

135. Rothschild, M.F. 2005. The Promise of Animal Genomics. Western Kentucky University, April 21, 2005

136. Macrossan, P., B.P. Kinghorn, V.L. Wilke and M.F. Rothschild. 2005. Selective genotyping for determination of a major gene associated with cranial cruciate ligament disease in the Newfoundland dog. Proc Assoc. Advmt. Anim. Breed. Genet. 16: 346-349.

137. Rothschild, M.F. 2006. Benefits from the Pig Genome. Bio 2006 proceedings, April 4, Chicago Illinois

138. Ramos, A.M., Z. L. Hu, S. Humphray, J. Rogers, J. Reecy and M. F. Rothschild. 2006. Using large scale porcine genome sequence information to find the underlying mutations associated with chromosome 17 QTL for meat quality. 8th World Congress on Genetics Applied to Livestock Production.

139. Yu M. and M. F. Rothschild, Initial evidence for the slc44a3 gene being associated with meat color QTL on chromosome 4 in the pig, Proceedings of the 8th World Congress on Genetics Applied to Livestock Production, .August 13-18, 2006

140. Guimaraes, S. E., M. F. Rothschild, E. Huff-Lonergan, A. Sosnicki, S. Jungst, M. Yu and S. Lonergan. 2006. Association analyses of MC4R and PRKAG3 genes in a commercial pig population with different genetic potential for growth. 8th World Congress on Genetics Applied to Livestock Production.

141. Rothschild, M.F. Sequencing the pig genome. 2006. Proc. National Swine Improvement Federation. Nashville TN Dec 7-8

142. Mote, B.E., K.J. Stalder, and M.F. Rothschild. 2006. Candidate Genes Associated with Sow Longevity. 31st Annual National Swine Improvement Federation Conference and Meeting.

143. Stalder, K. J., M. F. Rothschild, T. J. Baas, N. Berry, and T. V. Serenius. 2005. Genetics of feet and leg soundness. 2005 Pork Academy Conference Proc. CD-ROM. National Pork Board, Clive, IA.

144. Stalder, K., M. Knauer, T. Serenius, L. Karriker, M. Rothschild. B. Mote, J. McKean, T. Baas, and J. Mabry. 2006. Sow Longevity – What We Know. Iowa State University Disease Conference, Ames, IA, November, 2006.

145. Rothschild, M.F. 2006. Cracking the Pig Genomic Pig Bank. Missouri Governor's Conferenece on Agriculture. Osage Beach, December 10.

146. Rothschild, M.F. 2006. Sequencing the Swine Genome: Prospects and problems. Proceeding of the National Swine Improvement Federation annual meeting.

147. Rothschild, M.F. 2008. Swine genome sequencing, gene discovery and genomic selection: What will the future bring? Proceedings of the 14th Conference on Animal Genetics and Breeding in China

148. Onteru, S.K., B. Fan, B. Mote, T. Serenius, M. Nikkilae, K. J. Stalder , M.F. Rothschild. SNP discovery in genes affecting leg health traits in pigs. 2007. Proc. International Symposium on Animal genomics for Animal Health, Paris, France, Oct. 23-25.

149. Rothschild, M.F. 2007. An Update on Sequencing the Swine Genome: Opportunities and Challenges. Proceeding of the National Swine Improvement Federation annual meeting Dec 6-8.

150. Stalder, K. J., L. A. Karriker, A. K. Johnson, M. F. Rothschild, and T. Serenius. 2008. Sow Longevity: Genetic and phenotypic selection considerations. Proc. Amer. Assoc. Swine Vet. Annual Conf. – Reproduction Workshop. San Diego, CA. March, 2008. pp. 33-39

151. Stalder, K., and M. Rothschild. 2008. Pork production improvement expected from the use of new markers. Western Hog Journal, Alberta Pork, Edmonton, Alberta, Canada, 30(2):33-35.

152. Rothschild, M.F. 2008. Swine Genetic Challenges. One man's opinion. Proceeding of the National Swine Improvement Federation annual meeting Dec 5-6

153. Rothschild, M.F. 2009. New genetic tools, opportunities and discoveries. Chinese Animal breeding Socity national meetings.

154. Rothschild, M.F. 2009. Livestock and poverty alleviation. Animal Think Tank, November, Ames, IA

155. Rothschild, M.F. 2009. SNP association trials. UK Sequencing meeting

156. Rothschild, m.F. 2009. CSRL and poverty alleviation in Uganda, University of Nebraska departmental seminarRothschild, M.F. 2009. New tools and genomics discoveries in the pig. University of Nebraska Depart. of animal Science animal breeding seminar, November

157. Rothschild, M.F. 2010. Genetic and Genomic Technologies from A-Z. AGBU invites seminar, Armidale Australia October 2010

158. Rothschild, M.F. 2011. Genetic and Genomic Technologies from A-Z. Iowa Pork Congress, Des Moines IA Jan 21.

159. Onteru, S.K. and M.F. Rothschild. 2011. Genetic and genomic control of reproduction in the pig. Int Conference on Frontiers in Reproductive Biology Karnal , India Feb 11.

160. Rothschild, M.F. 2011 Livestock genomics: Old McDonald's farm isn't what it used to be. University of California, Davis, California

161. Rothschild, M.F. 2011 Livestock genomics: Old McDonald's farm isn't what it used to be. Jerusalem, Israel

162. Rothschild, M.F. 2011. Genomic Solutions to Animal Improvement. Wuhan China

163. Rothschild,, M.F. 2011. Genomic Solutions to Animal Improvement Beijing, China

164. Rothschild, M.F. 2011. Goat genomics and Feed the Future. Nairobi, Kenya

165. Rothschild M.F. and G.S. Plastow. 2014. Approaches to improve production by small holders. Ensminger conference, Lima Peru Nov 4-6.

166. Huson H.J., T.S. Sonstegard, J. Silverstein, M.J. Woodward-Greene, C. Masiga, F. Muchadeyi, J. Rees, B. Sayre, A. Elbetagy, M. Rothschild, F.D. Mujibi, S. Kemp, L. Collie, P.Ajmone-Marsan, P. Crepaldi, S. Abegaz, J. Soelkner, C.P. Van Tassell, AGIN. 2014. Characterization of African Goat Populations to Prioritize Conservation & Production Efforts for Small-holder Farmers in Sub-Saharan Africa 10th World Congress of Genetics Applies to Livestock Production. Vancouver Canada

167. Thekkoot, D. M., R. A. Kemp, M. F. Rothschild, G. Plastow and J. C. M. Dekkers. 2014. Identification of genomic regions associated with lactation performance in Yorkshire sows, 10th World Congress of Genetics Applied to Livestock Production Vancouver, Canada

168. Kim, E.-S, R.R. Freixedes, R.N. Pena, T.J. Baas, J. Estany and M.F. Rothschild. 2014. Identification of Signatures of Selection for Intramuscular Fat in Two Duroc Populations. 10th World Congress on Genetics Applied Livestock Production, Vancouver, Canada.

169. Plastow, G. S., and M.F. Rothschild. 2014. Modernizing pig breeding in China – A North American perspective and opportunities for partnership. Proceedings "The International Forum on Farm Animal Breeding - Status and Perspectives" Xian 27 July 2014.

170. Lamont S.J., D.J. Coble, A. Bjorkquist, M. F. Rothschild, M. Persia, C. Ashwell and C. Schmidt. 2014. Genomics of heat stress in chickens. Proceedings 10th World Congress on Genetics Applied Livestock Production, Vancouver, Canada.

171. Engle, T.B., E.E. Jobman, T.W. Moural, A.M. McKnite, S.Y. Barnes, E.H. Davis, J.K. Qiu, J.W. Bundy, J.K. Tart, T.P. Johnson, M.F. Rothschild, J.A. Galeota, R.K. Johnson, G.S.Plastow, S.D. Kachman, D.C. Ciobanu, Genome-wide analysis of the differential response to experimental challenges with Porcine Circovirus 2b, Proceedings, 10th World Congress of Genetics Applied to Livestock Production, 17-22 August, 2014, Vancouver, BC.

172. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. EAAP meetings in Belfast Ireland

173. Rothschild M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. 35th International Society for Animal Genetics Conference, 23-27 July 2016, Salt Lake City, Utah, USA.

174. Rothschild M. F. 2016. Applications of Technology for Small Holders´ Livestock to Meet Global Food Production, Ensminger Conference, May 16-17, 2017, Honduras

175. Rothschild M.F. The Case for Genomics in Racing Performance: Lessons Learned from the Livestock Industries. UK Thoroughbred beeders Association Meetings June 2016

176. Rothschild, M.F. 2016. Applications of genomics to address adaptation of livestock to stressful environments to prevent food insecurity in the developing world. Harbin China September 25, 2016

177. Rothschild M.F. 2016. This little piggy went to market: applications of genomics to improved health for sustainable pig production. Harbin China September 25, 2016

178. Rothschild, M.F. 2016. Applications of dairy genomics to prevent food insecurity in the developing world. New Delhi, India August 25, 2016

179. Bertolini F., J. Chinchilla Vargas, J.R. Khadse, A. Juneja, P. Deshpande, V. Potdar, K. Bhave, A.B. Pande and M.F. Rothschild. 2018. Marker discovery and associations with beta-carotene content in Indian dairy cattle and buffalo breeds. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.

180. Bertolini F., G. Schiavo, G. Galimberti, S. Bovo, M. D'Andrea, M. Gallo, L. Buttazzoni, M.F. Rothschild and L. Fontanesi. 2018. Getting to the meat of the matter: Identification of genomic regions associated with dry-cured ham quality and production traits in Italian Duroc pigs. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.

181. Walugembe M., F. Bertolini, C.M.B Dematawewa, A. Elbeltagy, C. Schmidt, S.J. Lamont and M.F. Rothschild. 2018. Genomic analysis of chicken ecotypes from Brazil, Sri Lanka, and Egypt: impact of different environmental conditions. World Congress on Quantitative Genetics Applied to Livestock Production, 11-16 February, Auckland, New Zealand.

182. Mwacharo J.M., AR Elbeltagy, E-S Kim, AM Aboul-Naga, B Rischkowsky and, MF Rothschild. 2018. Genome-wide signatures for grazing stress tolerance in Egyptian local goats under dryland environments. World Congress on Quantitative Genetics Applied to Livestock Production (in press) 11-16 February, Auckland, New Zealand

183. Rowland K., J. Hsieh, C.M. Ashwell, M. E. Persia, M. F. Rothschild, J.C. M. Dekkers and S.J. Lamont. 2018. Genomic analysis of egg quality, production, and blood chemistry traits in heat stressed white laying hens. World Congress on Quantitative Genetics Applied to Livestock Production (in press). 11-16 February, Auckland, New Zealand

184. Stock, J.D., J.A. Calderón Díaz, M.F. Rothschild, and K.J. Stalder. 2018. Comparison of two evaluation methods for feet and leg conformation traits at 100 days of age in replacement

gilts. Accepted for presentation at 11th World Congress on Genetics Applied to Livestock Production, 11 – 16 February, Auckland, New Zealand

Extension Publications and Invited Talks

1. Rothschild, M. F. 1979. Do daughters of high PD bulls have more health and reproductive problems? Cooperative Extension Service "Cow Moos" Newsletter, University of Maryland.

2. Rothschild, M. F. and L. L. Christian. 1981. Alcohol and its relationship to death losses and muscle quality in stress-susceptible and stress-resistant pigs. Iowa State University Pork Producers Day Proceedings, AS-528T.

3. Christian, L. L. and M. F. Rothschild. 1981. Performance and carcass characteristics of normal, stress-carrier and stress-susceptible swine. Iowa State University Pork Producers Day Proceedings, AS-528F.

4. Christian, L. L. and M. F. Rothschild. 1982. Genetic and developmental abnormalities of pigs. Iowa State University Pork Producers Day Proceedings, AS-535H.

5. Rothschild, M. F. 1982. Tissue typing and disease resistance in swine. Iowa State University Pork Producers Day Proceedings, AS-535-0.

6. Rothschild, M. F. and L. L. Christian. 1983. Selection for improved front feet and leg soundness. Iowa State University Pork Producers Day Proceedings, AS-539C.

7. Rothschild, M. F., L. Young, C. Christians and J. Wheat. 1984. Swine genetic abnormalities. Pork Industry Handbook Fact Sheet.

8. Rothschild, M. F., C. M. Warner and L. L. Christian. 1984. Genetic differences of pigs in levels of immune response following vaccination with AR and PRV vaccine. Iowa State University Swine Research Reports, AS-549M.

9. Rothschild, M. F. Selection for disease resistance. 1984. Veterinary Medicine Update (Cont. Educ.), Ames, Iowa, Nov.

10. Rothschild, M. F. Genetics of leg conformation. 1984. Veterinary Medicine Update (Cont. Educ.), Ames, Iowa, Nov.

11. Rothschild, M. F. and C. M. Warner. 1985. DNA typing: A new tool for swine breeding. Iowa State University Swine Research Reports, AS-570-K.

12. Meeker, D. L., M. F. Rothschild, L. L. Christian, C. M. Warner and H. T. Hill. 1985. Maternal genetic, maternal environment and breed effects on immune response following vaccination with AR and PRV vaccine. Iowa State University Swine Research Reports, AS-570-I.

13. Meeker, D. L., J. Li, M. F. Rothschild, L. L. Christian and C. M. Warner. 1985. Response to selection for immune response following vaccination with atrophic rhinitis vaccine. Iowa State University Swine Research Reports, AS-570-H.

14. Lawrisuk, L., M. F. Rothschild, L. L. Christian and R. F. Ross. 1985. Levels of Mycoplasma hyosynoviae infection in lines of pigs selected for front leg soundness. Iowa State University Swine Research Reports, AS-570-J.

15. Blanchard, W. W., L. L. Christian and M. F. Rothschild. 1986. Predicting sale price of centrally tested Hampshire boars. Iowa State University Swine Res. Rep. AS-570-P.

16. Boggess, M. and M. F. Rothschild. 1986. Economic and genetic effects of reciprocal translocations in boars. Iowa State University Swine Research Reports. AS-570-N.

17. Lu, M., L. L. Christian and M. F. Rothschild. 1986. Evaluation of crossbreds female replacement systems. Iowa State University Swine Research Reports, AS-570-O.

18. Rothschild, M. F. and L. L. Christian. 1986. Changes in leg structure, average daily gain, days to market and backfat after 4 generations of divergent selection for front leg structure in swine. Iowa State University Swine Research Reports, AS-570-M.

19. Wood, C., L. L. Christian, and M. F. Rothschild. 1986. Adjustment factors for 21-day litter weight in pigs. Iowa State University Swine Research Reports, AS-570-W.

20. Boggess, M., M. F. Rothschild and L. L. Christian. 1987. Comparison of foot and leg structure in crossbred pigs sired by Duroc boars which vary in degree of leg weakness. Iowa State University Swine Research Reports, AS-R491, pp. 54-59.

21. Rothschild, M. F., L. L. Christian, and W. Blanchard. 1987. Multigene control of cryptorchidism. Iowa State University Swine Research Reports, AS-R490, pp. 51-53.

22. Rothschild, M. F., L. L. Christian and S. A. Goedegebuure. 1987. Severity of osteochondrosis in three genetic lines of Duroc swine selected for front leg weakness. Iowa State University Swine Research Reports, AS-R492, pp. 60-70.

23. Hawkins, P. A. and M. F. Rothschild. 1987. Miniature swine - Sus scrofa a new research animal for immunogenetic and reproduction research. Iowa State University Swine Research Reports,
AS-R489, pp. 42-50.

24. Ford, S. P., M. F. Rothschild and C. M. Warner. 1987. Influence of Major Histocompatibility Complex genes on ovulation rate and litter size in miniature swine. Iowa State University Swine Research Reports, AS-R494, pp. 76-79.

25. Rothschild, M. F. 1987. Lesson 3: Matching genetics with your management and environment. Iowa State University Coop. Ext./N.W. Extension Area Home Study Course.

26. Kemp, R. A. and M. F. Rothschild. 1988. Environmental effects and adjustment factors. NSIF Factsheet No. 7.

27. Kemp, R. A. and M. F. Rothschild. 1988. Estimating genetic merit. NSIF Fact Sheet No. 8.

28. Rothschild, M. F., Y. C. Jung, C. M. Warner, and E. D. Pollak. 1988. Genetic variability between two breeds based on restriction fragment length polymorphisms (RFLPs) of Major Histocompatibility Complex class I genes in the pig. Iowa State University Swine Research Reports, AS-R559.

29. Ernst, C. W., M. F. Rothschild, L. L. Christian, and R. C. Ewan. 1988. The effect of sodium bicarbonate in the ration on genetic differences of leg structure in Duroc swine: A preliminary report. Iowa State University Swine Research Reports, AS-R560.

30. Reyes, G. F., M. F. Rothschild, L. F. Christian, and L. Evans. 1988. Reproductive performance of mature crossbred boars. Iowa State University Swine Research Reports, AS-R557.

31. Wang, L. Y., M. F. Rothschild, D. D. Draper, L. L. Christian, and C. W. Ernst. 1988. Comparison of body measurements in growing Duroc swine with genetically different degrees of leg weakness. Iowa State University Swine Research Reports, AS-R558.

32. Ford S. P., M. F. Rothschild and C. M. Warner. 1988. Role of the SLA complex in determining preimplantation embryonic growth rate in miniature pigs. Iowa State University Swine Research Reports, AS-R563.

33. Rothschild, M. F. 1989. Chinese pigs arrive at Iowa State University. Iowa State University Swine Research Reports, ASL-R644.

34. Hoganson, D. A., M. F. Rothschild, C. M. Warner, L. B. Schook, H. A. Lewin, and D. G. McLaren. 1989. Comparison of swine major histocompatibility complex class I restriction fragment length polymorphisms with serologically recognized class I antigens. Iowa State University Swine Research Reports, ASL-R645.

35. Rothschild, M. F. and D. L. Meeker. 1989. Large scale survey of electronically collected carcass data. Iowa State University Swine Research Reports, ASL-R646.

36. Baas, T. J. L. L. Christian, and M. F. Rothschild. 1989. The effect of sow weight change during lactation on 21-day litter weights in purebred and crossbred Hampshire and Landrace swine. Iowa State University Swine Research Reports ASL-R648.

37. Baas, T. J., L. L. Christian, and M. F. Rothschild. 1989. Production levels and composition of milk from purebred and crossbred Hampshire and Landrace swine. Iowa State University Swine Research Reports, ASL-R649.

38. Skaggs, C. L., L. L. Christian, M. F. Rothschild, and D. D. Draper. 1989. Somatropin effects on performance, carcass and leg soundness of normal, carrier and stress susceptible swine. Iowa State University Swine Research Reports, ASL-R647.

39. Ford, S. P., M. F. Rothschild, and C. M. Warner. 1989. Morphological and functional diversity of individual littermate pig embryos on days 9 to 13 of gestation. Iowa State University Swine Research Reports, ASL-R650.

40. Draper, D., M. F. Rothschild, and L. L Christian. 1989. Effect of divergent selection for leg weakness on bone and muscle cross sectional areas in Duroc swine. Iowa State University Swine Research Reports, ASL-R654.

41. Piedrafita, J., M. F. Rothschild, and L. L. Christian. 1990. Effects of restricted feeding on leg soundness of Duroc swine. Iowa State University Swine Research Reports, ASL-R753.

42. Hsieh, C. Y., M. Rothschild, S. Nissen, and D. Webb. 1990. Comparison of U.S. and Chinese pigs for immune response to sheep red blood cell antigen. Iowa State University Swine Research Reports, ASL-R755.

43. Rothschild, M. F., L. L. Christian, C. Y. Hsieh, S. C. Whipp, R. D. Michaels, L. E. Evans, N. M. Gueniat, and D. Hoganson. 1990. Preliminary reproductive and genetic research results with Chinese pigs. Iowa State University Swine Research Reports, ASL-R756.

44. Sell, J. L. and M. F. Rothschild. 1990. Functional development of the intestinal tract of neonate Chinese crossbred pigs. Iowa State University Swine Research Reports, ASL-R757.

45. Piedrafita, J., C. L. Skaggs, L. L. Christian, and M. F. Rothschild. 1990. Stress genotype effects on production, carcass, meat quality and leg soundness traits of pigs treated with recombinant porcine somatotropin. Iowa State University Swine Research Reports, ASL-R758.

46. Hudnall, T. P., D. D. Draper, M. F. Rothschild, and C. D. Jacobson. 1990. Regional distribution of cholecystokinin in the brains of young pigs. Iowa State University Swine Research Reports, ASL-R774.

47. Hsieh, C.-Y., M. F. Rothschild, and L. L. Christian. Reproduction, growth and carcass performance of Chinese pigs and their crosses. Iowa State University Swine Research Reports, ASL-855.

48. Wheeler, W. and M. F. Rothschild. 1991. 21-day litter weight adjustment factors of Chinese and crossbred Chinese pigs. Iowa State University Swine Research Reports, ASL-856.

49. Michaels, R., S. Whipp, and M. F. Rothschild. 1991. Resistance to k88 E. coli in Chinese pigs. Iowa State University Swine Research Reports, ASL-859.

50. Rothschild, M. F. 1991. Identification of novel genes linked to the swine major histocompatibility complex which control disease resistance and reproduction. Iowa State University Swine Research Reports, ASL-860.

51. Tuggle, C. K. and M. F. Rothschild. 1991. Cloning of new swine genes with potential major effects on growth and development. Iowa State University Swine Research Reports, ASL-863.

52. Rothschild, M. F. and C. Tuggle. 1992. Progress towards mapping the pig genome. Iowa State University Swine Research Reports, ASL-R958.

53. Rothschild, M. F., M. Ruohonen-Lehto, R. Larson and C.M. Warner. 1992. Genetic Variability at the heat shock protein HSP70 and Prolactin genes in pigs. Iowa State University Swine Research Reports, ASL-R961.

54. Boles, J. A., F. C. Parrish, L. L. Christian, and M. F. Rothschild. 1992. A comparative study of sensory, physical and chemical properties of loin chops from Chinese and domestic swine. Iowa State University Swine Research Reports, ASL-R1009.

55. Rothschild, M. F., L. Christian, P. Spike, and C. K. Tuggle. 1993. Iowa State University to coordinate U.S. gene mapping efforts. Iowa State University Swine Research Reports, ASL-R1082.

56. Tuggle, C. K., J. Helm, and M.F Rothschild. 1993. Cloning, sequencing and restriction fragment length polymorphism analysis of a pig cDNA for OCT2. Iowa State University Swine Research Reports, ASL-R1086.

57. Yu, T.-P., C. B. Schmitz, M.F. Rothschild, and C.K. Tuggle. 1993. Cloning and application of the swine PIT-1 gene: Use as a molecular marker in breeding studies. Iowa State University Swine Research Reports, ASL-R1087.

58. Ernst, C. W., D. A. Vaske, R.G. Larson, and M. F. Rothschild. 1993. Restriction fragment length polymorphisms at the pig myogenin (MYOG) locus. Iowa State University Swine Research Reports, ASL-R1090.

59. Vaske, D. A., M. K. Ruohonen-Letho, R. G. Larson, C. M. Warner, and M. F. Rothschild. 1993. Genetic variability at a new pig locus associated with antigen processing. Iowa State University Swine Research Reports, ASL-R1091.

60. Wang, L., M. F. Rothschild, and P. Spike. 1994. Pig gene mapping database at Iowa State University. Iowa State University Swine Research Reports, ASL-R1177.

61. Rothschild, M. F., C. K. Tuggle, D. A. Vaske, C. M. Warner, and PiGMaP Consortium. 1994. Similarity of human chromosome 6 and pig chromosomes 1 and 7. Iowa State University Swine Research Reports, ASL-R1179.

62. Rothschild, M. F., C. Jacobson, D. A. Vaske, and C. K. Tuggle. 1994. Discovery of a major gene for litter size in pigs. Iowa State University Swine Research Reports, ASL-R1178.

63. Tuggle, C. K., M. F. Rothschild and PiGMaP Consortuim. 1994. Chromosomal mapping of four POU-domain genes and two muscle specific genes in the pig. Iowa State University Swine Research Reports, ASL-R1185.

64. Kapke, P., L. Wang, J. Helm, and M. F. Rothschild. 1995. Construction of a Chromosome 14 consensus map. Iowa State University Swine Research Reports, ASL-R1271.

65. Messer, L. A., L. Wang, M. F. Rothschild, J. Yellich, D. Pomp, and R. Geisert. 1995. Investigation and mapping of candidate genes for litter size in pigs. Iowa State University Swine Research Reports, ASL-R1270.

66. Rothschild. M. F. 1995. Molecular genetic approaches to improved pig performance. Professional Swine management Certification Series. Module IV, Iowa State University extension report.

67. Legault, C. J. Gruand, J. Lebost, H. Garreau, L. Ollivier, L. A. Messer and M. F. Rothschild. 1995. [Frequency and effect on prolificacy of the ESR gene in two French Large White lines]. 28th Journees de la Recherche Porcine en France 28:9-14.

68. Stalder, K., L. Christian, M. F. Rothschild, and E. Lin. 1995. Reproductive performance differences between porcine stress syndrome normal and carrier females. Iowa State University Swine Research Reports, ASL-R1277.

69. Rothschild, M. F., L. Christian, and T. Baas. 1996. Development of a resource family to identify genes for meat quality traits in the pig. Iowa State University Swine Research Reports, ASL-R1376.

70. Messer, L. A., L. Wang, C. K. Tuggle, and M. F. Rothschild. 1996. Mapping of the Melatonin Receptor 1a (MTNR1A) gene in pigs, sheep and cattle. Iowa State University Swine Research Reports, ASL-R1377.

71. Vincent, A. L., L. Wang, and M. F. Rothschild. 1996. Placement of Prolactin on pig chromosome 7 by linkage and physical mapping. Iowa State University Swine Research Reports, ASL-R1379.

72. Kapke, P., H. P. Jorgensen, and M. F. Rothschild. 1996. A study of genetic diversity in a rare U.S. pig breed - the Mulefoot pig. Iowa State University Swine Research Reports, ASL-R1375.

73. Larsen, N. J., S. Kenealy, C. K. Tuggle, M. Yerle, and M. F. Rothschild. 1997. Mapping five new candidate genes in the pig. Research reports in swine breeding and genetics. Iowa State University Swine Research Reports, ASL-R1484.

74. Vincent, A. L., C. K. Tuggle, M. F. Rothschild, G. Evans, T. H. Short, O. I. Southwood, and G. S. Plastow. 1997. The prolactin receptor gene is associated with increased litter size in pigs. Iowa State University Swine Research Reports, ASL-R1487.

75. Sun, H. S., C. W. Ernst, M. F. Rothschild, C. K. Tuggle, M. Yerle, P. Pinton,, P. Chardon, and C. Rogel-Gaillard. 1997. Comparative mapping of human chromosome 3 genes in the pig shows different gene order. Iowa State University Swine Research Reports, ASL-R1485.

76. Sun, H. S., M. F. Rothschild, C. K. Tuggle, M. Yerle, P. Pinton, P. Chardon, and C. Rogel-Gaillard. 1997. Comparative mapping of human chromosome 13 genes in the pig shows a similar gene arrangement. Iowa State University Swine Research Reports, ASL-R1486.

77. Yu, T.-P., H. S. Sun, M. F. Rothschild, and C. K. Tuggle. 1997. Cloning of the complete gene for pig PIT-1 and analysis of PIT-1 protein function. Iowa State University Swine Research Reports, ASL-R1492.

78. Yu, T.P., L. Wang, C.K. Tuggle and M.F. Rothschild. 1998. Mapping genes for fatness and growth on pig chromosome 13, a search in the region close to the pig PIT1 gene. Iowa State University Swine Research Reports, ASL-R1578.

79. Marklund, S., Z. L. Hu, N. J. Larsen, K. A. Kelly, G. R. Bertani, K. S. Kim, M. Malek, J. Seifert, C. K. Tuggle, and M. F. Rothschild. 1998. Addition of 13 genes to the porcine comparative gene map reveals new regions of conserved synteny. Iowa State University Swine Research Reports, ASL-R1573.

80. Rothschild, M.F. and B. Meyer. 1998. Pork production – Hunt for pork quality genes underway. *Integrated Crop Management, Special Livestock Edition,* pp. 9-10.

81. Kim, K. S., M. Malek, E. Grindflek, S. Marklund, and M. F. Rothschild. 1999. Mapping and investigation of novel candidate genes for fatness, growth and feed intake in the pig. Iowa State University Swine Research Reports, ASL-1672.

82. Marklund, S., C. K. Tuggle, and M. F. Rothschild. 1999. Mapping of three genes to porcine chromosome 7q enlightens the sysnteny with human chromosomes 14q and 15q. Iowa State University Swine Research Reports, ASL-1673.

83. Kim, K.-S., J. Sherwood, D. Ciobanu, Y. Zhang, and M. F. Rothschild. 2000. Mapping and investigation of two novel candidate genes for growth and meat quality traits in the pig. Iowa State University Swine Research Reports.

84. Grapes, L., M. Malek, and M. F. Rothschild. 2000. Identification of identical twins and mutation rate in pigs. Iowa State University Swine Research Reports.

85. Kim, K. S., N.-T. Nguyen, Y. Zhang, and M. F. Rothschild. 2001. Mapping of two high mobility group protein genes for growth and composition traits in pigs. Iowa State University Swine Research Reports.

86. Zhang, Y. D. and M. F. Rothschild. 2001. Pig Genome Web Site: Online resources for swine molecular genetics and genome information. Iowa State University Swine Research Reports.

87. Ciobanu, D. C., M. Malek, J. Helm, J. R. Woollard, M. F. Rothschild, J. Bastiaansen, and G. S. Plastow. 2001. New alleles in the "RN gene" associated with low glycogen content in pig skeletal muscle and improved meat quality. Iowa State University Swine Research Reports.

88. Emnett, R., S. Moeller, K. Irvin, M. Rothschild, G. Plastow, and R. Goodwin. 2002. An investigation into the genetic controls of pork quality: I. Association studies with leptin receptor, melanocortin 4 receptor and peroxisome proliferator activated receptor-gamma. Ohio State University Department of Animal Sciences Research Reviews, p. 84.

89. Emnett, R., S. Moeller, K. Irvin, M. Rothschild, G. Plastow, and R. Goodwin. 2002. An investigation into the genetic controls of pork quality: II. Association studies with heart fatty acid binding protein 1 and calpastatin. Ohio State University Department of Animal Sciences Research Reviews, p. 85.

90. Emnett, R., S. Moeller, K. Irvin, M. Rothschild, and E. Grindfleck. 2002. Physical assignment of adipocyte determination and differentiation factor-1 and pyruvate dehydrogenase E1-alpha in the pig. Ohio State University Department of Animal Sciences Research Reviews, p. 86

91. Isler, B.J., K. Irvin, M.F. Rothschild and G.J. Evans. 2002. Examination of the relationship between the prolactin receeptor gene and reproductive tract components in swine. Ohio State University Department of Animal Sciences Research Reviews, p. 87

92. Thomsen, H., J. C. M. Dekkers, and M. F. Rothschild. 2002. Detection and characterization of QTL for growth and meat quality traits in the Berkshire-Yorkshire cross. Iowa State University Swine Research Reports.

93. Ciobanu, D. C., S. M. Lonergan, M. Malek, J. R. Woollard, E. J. Lonergan, and M. F. Rothschild. 2002. New alleles in the Calpastatin gene associated with improved tenderness in pigs. Iowa State University Swine Research Reports.

94. Chaiwong, N., J. C. M. Dekkers, R. L. Fernando and M. F. Rothschild. 2002. Introgressing multiple QTL through backcross breeding programs. Iowa State University Swine Research Reports.

95. Kim, K.S., N. T. Nguyen, J. M Reecy, L. L. Anderson, and M. F. Rothschild. 2002. Molecular genetic studies of porcine genes for obesity. Iowa State University Swine Research Reports.

96. Tuggle, C.K., and Midwest Consortium. 2003. Finding the genes expressed in female reproductive tissues in pigs. Iowa State University Animal Industry Reports

97. Tuggle, C. K., Y. Zhang, M. F. Rothschild, M. Moller, F. Berg, L. Anderson, J. Riquet, D. Milan, D. Pomp, A. Archibald, and S. Anderson. 2003. A detailed gene map of pig chromosome 4, where the first quantitative trait locus in livestock was mapped. Iowa State University Animal Industry Reports

98. Grapes, L., M. Z. Firat, J. C. M. Dekkers, M. F. Rothschild, and R. L. Fernando. 2003. Fine-tuning the predicted position of genes associated with economic traits in livestock. Iowa State University Animal Industry Reports.

99. Mote, B. E., A. M. Ramos, M. F. Rothschild. 2003. Identifying genes of economic importance for pig production. Iowa State University Animal Industry Reports.

100. Wilke, V. L., B. P. Kinghorn, M. G. Conzemius, M. F. Rothschild. 2004. Determining the genetic basis for knee disease in the Newfoundland breed of dog. Iowa State University Animal Industry Reports.

101. Glenn, K., T. Suwanasopee, D. L. Harris, T. Sornthep, and M. F. Rothschild. 2004. Examining genetic differences in farm raised pacific white shrimp. Iowa State University Animal Industry Reports.

102. Mote, B. E., N. Deeb, O. Southwood, and M. F. Rothschild. 2005. Using molecular marker technology for improvement in sow reproductive longevity. ISU Animal Industry Reports .

103. Hu, Z. H., J. Reecy, and M. F. Rothschild. 2005. A quantitative trait loci resource and comparison tool for pigs: PigQTLDB. ISU Animal Industry Reports.

104. Grapes, L., S, Rudd, R. L. Fernando, K. Megy, D. Rocha, and M. F. Rothschild. 2005. Searching for mutations in pigs using the human genome. ISU Animal Industry Reports.

105. Rothschild, M. F. 2005. Sequencing the pig genome. ISUAnimal Industry Reports.

106. Ramos, A. M., N. T. Nguyen, K. J. Stalder, and M. F. Rothschild. 2005. Molecular markers associated with improved yield and quality of dry-cured hams. ISU Animal Industry Reports

107. Yu, M., B. Geiger, N. Deeb, and M.F. Rothschild. 2006. Association of Liver X Receptor Alpha and Beta Genes with Carcass Lean and Fat Content in Pigs. Iowa State University Animal Industry Reports AS105

108. Mote, B., D. Rocha, L.R. Totir, R. Fernando, M.F. Rothschild. 2006 Polydactyl Pigs: There's More To The Story Than Just Extra Toes. Iowa State University Animal Industry Reports AS108

109. Fan, B. and M.F. Rothschild. 2007. Using pig genomic sequence to determine underlying mutations affecting a pig SSC17 meat quality QTL: New developments. Iowa State University Animal Industry Reports

110. Glenn, K. L., P. S. Van Cleave, L. P. Carlstrom, N. M. Ellinwood, and M. F. Rothschild. 2007. Determination of White Spotting in Dogs: An Investigation of Candidate Genes. Iowa State University Animal Industry Reports

111. Mote, B. E., K. J. Stalder and M.F. Rothschild. 2007. Understanding the Genetic Mechanisms Controlling Sow Longevity. Iowa State University Animal Industry Reports

112. Onteru, S., B. Fan, B. Mote, T. Serenius, M. Nikkilae, K.J. Stalder and M.F. Rothschild. 2008. Determination of genes associated with leg and body conformation traits in pigs. Iowa State University Animal Industry Reports

113. Bowen, D.M., Z.-L. Hu, Z.-Q. Du and M. F. Rothschild. 2008. Designing Software to Locate Differences in the Shrimp Genome. Iowa State University Animal Industry Reports

114. Glenn, K., B. Renaville, B. E. Mote, B. Fan, K. Stalder and M. F. Rothschild. 2008. Gene Associations with Country Ham Quality, Quantity and Color Traits. Iowa State University Animal Industry Reports

115. Zhao, X., K. Glenn, Z. Du and M. F. Rothschild. 2008. Candidate Gene Discovery for Dog Cryptorchidism. Iowa State University Animal Industry Reports Nikkilä, M., K. J. Stalder, B. Mote., J. Lampe, B. Thorn, M. F. Rothschild, A. Johnson, L. Karriker, and T. Serenius. 2008. Heritabilities and genetic correlations of body composition and structural soundness traits in commercial gilts. Iowa State University Animal Industry Report 2008. A.S. Leaflet R2349.

116. Du, Z.-Q., D. Gorbach, G. Jaramillo, and M. F. Rothschild. Genetic marker discovery for gene map construction in the Pacific White Shrimp (*Litopenaeus vannamei*). Iowa State University Animal Industry Report 2009 ASLR2447.

117. Du, Z.-Q., D. Gorbach, G. Jaramillo, and M.F. Rothschild. Genetic marker discovery for gene map construction in the Pacific white shrimp (*Litopenaeus vannamei*). Iowa State University Animal Industry Report 2009.

118. Fan, B., S.K. Onteru, M. Nikkilä, K.J. Stalder, and M.F. Rothschild. 2009. Identification of genetic markers associated with sow reproductive traits. Iowa State University Animal Industry Report 2009.

119. Nikkilä, M., K.J. Stalder, B. Mote., J. Lampe, B. Thorn, M.F. Rothschild and A. Johnson. 2009. Associations between body and leg structure traits in gilts. Iowa State University Animal Industry Report 2009.

120. Rothschild, M.F. 2009. The Ensminger Program 2010: The first school in Costa Rica and other activities in international animal agriculture. Iowa State University Animal Industry Report. R2575

121. Nikkilä, M., K.J. Stalder, B. Mote., J. Lampe, B. Thorn, M.F. Rothschild and A. Johnson. 2009. Impact of gilts body composition and body structure on reproductive performance. Iowa State University Animal Industry Report 2009.

122. Zhao, X., Z.-Q. Du, K. Glenn, and M.F. Rothschild 2009. Candidate gene discovery for retained testicles in dogs. Iowa State University Animal Industry Report 2009.

123. Du, Z.-Q., S.K. Onteru, D.M. Gorbach, and M.F. Rothschild. 2010. A SNP genetic map for Pacific white shrimp (*Litopenaeus vannamei*). Iowa State University Animal Industry Reports: R2514.

124. Gorbach, D.M., B. Fan, S.K. Onteru, X. Zhao, Z.-Q. Du, D. Garrick, J. Dekkers, and M.F. Rothschild. 2010. Genome-wide association studies for important economic traits in domestic animals using high density SNP genotyping. Iowa State University Animal Industry Reports: R2540.

125. Rothschild, M.F. 2011. The Ensminger Program 2010: The first school in Lleida Spain Rica and other activities in international animal agriculture. Iowa State University Animal Industry Report..

126. Boddicker, N., D.J. Garrick, J.M. Reecy, B. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2011. Genetic parameters and markers associated with viremia and growth in pigs infected with Porcine Reproductive and Respiratory Virus. Iowa State University Animal Industry Reports.

127. Du, Z.-Q., and M.F. Rothschild. 2011. Next Generation Sequencing to Discover Genetic Markers for Pacific White Shrimp. Iowa State University Animal Industry Report.

128. Gorbach, D.M., W. Cai, J. Dekkers, J. Young, M.F. Rothschild. 2011. Understanding feed efficiency and growth in swine through genetic marker studies. Iowa State University Animal Industry Reports.

129. Zhao, X., S. Onteru, M.F. Rothschild, D. Garrick. 2011. Causative Gene Discovery for Sheep Inherited Disorders. Iowa State University Animal Industry Report.

130. Young, J.M., D.M. Gorbach, K.L. Bunter, M.F. Rothschild, and J.C.M. Dekkers. 2011. Genomic analysis of juvenile serum IGF-I concentration in Yorkshire pigs selected for residual feed intake. Iowa State University Animal Industry Report

131. Thekkoot, D.M. J. Young, Z. Q. Du, S. Onteru, M. F. Rothschild, and J. C. M. Dekkers, 2012. Whole Genome Association Study for Lactation Feed Efficiency in Yorkshire Sows Selected for Residual Feed Intake During Finishing. Animal Science Industry reports

132. Zhao, X.,S. Onteru, M. Saatchi, D. Garrick, and M. Rothschild, 2012. Bayesian Inference Identifies A Candidate Region Associated With Canine Cryptorchidism That Includes

The *AMHR2* Gene. Animal Science Industry reports

133. Onteru, S.,D. Gorbach, J. Young, D. Garrick, J.Dekkers, and Max Rothschild, 2012. Genome wide association studies for residual feed intake traits in pigs Animal Science Industry reports

134. Thekkoot, D. M., R. A. Kemp, M. F. Rothschild, G. Plastow and J. C. M. Dekkers. 2014 Identification of genomic regions associated with lactation performance in Yorkshire sows. Iowa State University Animal Industry Report,AS leaflet R2918

135. Bjorkquist, A. M.F. Rothschild, M.E. Persia, C. Ashwell, C. Schmidt, S.J. Lamont. 2015. Genetic markers found for response to heat stress in chickens. Iowa State University, Animal Industry Report. ASL-R29927

136. Hsieh, J. C., M. Walugembe, N. J. Koszewski, S. J. Lamont, M. E. Persia, and M. F. Rothschild. 2015. Effects of Dietary Fiber on Cecal short Chain Fatty Acid and Microbial Community of Broiler and Layer Chicks. Iowa State University Animal Industry Report ASL-R 2991

137. Kawaler, E. M.F. Rothschild and Z.Q. Du. 2015. Sequencing a Shrimp Diversity Panel. Iowa State University Animal Industry Report ASL-R3004.

138. Kim, E.S. R. R. Freixedes, J. Estany, T.J. Baas and M.F. Rothschild. 2015. Signatures of Selection for Intramuscular Fat in Duroc Pigs. Iowa State University Animal Industry reports. ASL- R3008

139. Kim K.S., E.-. Kim,J. T. Seibert, A. F. Keating, L. H. Baumgard, J. W. Ross, and M. F. Rothschild, 2015. Genome-Wide Association Analyses of Biological Responses to Heat Stress in Pigs. Iowa State University Animal Industry Report. ASL-R 3029

140. Lamont S.J., M. Kaiser, M.F. Rothschild, M. Persia, C. Ashwell, C. Schmidt. 2015. Breed differences in physiologic response to embryonic thermal conditioning and post-hatch heat stress in chickens Iowa State University Animal Industry Report, ASL-R2995

141. Thekkoot, D. M., R. A. Kemp, M. F. Rothschild, G. Plastow and J. C. M. Dekkers. 2015 Accuracies of genomic prediction of traits associated with lactation and reproduction in Yorkshire and Landrace sows. Iowa State University Animal Industry Report,ASL-R2037

142. Stock, J.D.,B. E. Mote, T. J. Baas, M. F. Rothschild, and K. J. Stalder. 2015. Characterization and symmetry study of objective feet and leg joint measurements in five separate lines of maternal gilts. Iowa State University Animal Industry Report, ASL-R3002

143. Rothschild M.F. 2015. An update on the Ensminger International program in international agriculture. Iowa State University Animal Industry Report, ASL-R2039

144. Walugembe, M., K.J. Stalder, M.F. Rothschild, and M. Persia. 2015. Effect of high fiber ingredients on the performance, metabolizable energy and digestibility of broiler and layer chicks. Iowa State University Animal Industry Report, ASL-3000

145. Walugembe, M., S. Tebug, A.Missohou, J. Juga, K. Marshall, and M. Rothschild. 2015. Gender intr-household contribution to low dairy in Senegal. Iowa State University Animal Industry Report

146. Bertolini F, J. Harding, B. Mote, G.S. Plastow, and M.F. Rothschild. 2015. Genomic differences between pre-weaning survival and mortality of piglets following PEDV outbreaks. 2016. Iowa State University Animal Industry Report

147. Fleming D.S., J.E. Koltes, A.D. Markey, C.J. Schmidt, C.M. Ashwell, M.F. Rothschild, M.E. Persia, J.M. Reecy and S. J. Lamont. 2016. Genomes of African chickens show evolutionary response to environmental stress. Iowa State University Animal Industry Report

148. Elbeltagy A.R., E.-S. Kim, B. Rischkowsky, A.M. Aboul-naga, J.M. Mwacharo and M.F. Rothschild. 2016. Genome-wide analysis of small ruminant tolerance to grazing stress under arid desert conditions. Iowa State University Animal Industry Report

149. Bertolini F, J. Harding, B. Mote, G.S. Plastow and Rothschild MF. 2016. Genomic Differences between Preweaning Survival and Mortality of Piglets Following PEDV Outbreaks. Animal Industry Report

150. Monson, M.S., A G. Van Goor, C.J. Schmidt, and S.J. Lamont 2016. Exposure to Heat Stress and an Immune Stimulus Affects Gene Expression in Chicken Immune Tissues Animal Industry Report. Iowa State University. A.S. Leaflet

151. Rowland K., J. Hsieh, C.M. Ashwell, M. E. Persia, M. F. Rothschild, C. Schmidt and S.J. Lamont. 2018. Regions of Genomic Control Identified for Feed Efficiency in Laying Hens Under Heat Stress. ISU Animal Industry reports.

152. Bertolini F, M.F. Rothschild, and the ADAPTmap consortium. 2018. A glimpse into the effects of climate adaptation on shaping the goat genome. ISU Animal Industry reports.

153. Chinchilla-Vargas J., M. M. Jahnke, T. M. Dohlman, M.F. Rothschild and P.J. Gunn. Climatic factors affecting quantity and quality grade of in vivo produced bovine embryos. Iowa State University Animal Industry Report 2018: AS 664, ASL R3215.

Popular Articles

1. Rothschild, M. F. Time to re-evaluate your sire selection program. Jersey Journal, April, 1980.

2. Johnson, L. P. and M. F. Rothschild. Are you ready for the computer age? Hoard's Dairyman, February 25, 1980.

3. Rothschild, M. F. Does your sire selection program reflect your dairying profit? Holstein World, March 25, 1980.

4. Rothschild, M. F. and L. L. Christian. Tested boar prices are based on performance - sometimes. National Hog Farmer, October, 1980.

5. Miller, R. H., R. E. Pearson and M. F. Rothschild. "If you select your sires on the basis of milk only." Hoard's Dairyman, March 10, 1981.

6. Rothschild, M. F. Cloning: What does it mean for genetic improvement of swine. Hog Farm Management, March, 1981.

7. Rothschild, M. F. and L. L. Christian. Can we breed a healthier pig? Hog Farm Management, August, 1981.

8. Rothschild, M. F. Interest is growing in A.I. for hogs. Hog Farm Management, December, 1981.

9. Rothschild, M. F. Programs that make A.I. work for you. Hog Farm Management, December 1981.

10. Rothschild, M. F. The hog genetics quiz. Hog Farm Management, February, 1982.

11. Rothschild, M. F. Genetic defect or accident of development? Hog Farm Management, July, 1982.

12. Rothschild, M. F. China: People, pigs, and prospects. Iowa Pork Producers Magazine, October, 1982.

13. Rothschild, M. F. How Chinese raise pigs. Hog Farm Management, October, 1982.

14. Rothschild, M. F. The role of genetics in modern breeding. Squibb International Swine Update, March, 1983.

15. Rothschild, M. F. Breeding for lean. Hog Farm Management, August, 1983.

16. Rothschild, M. F. Structural soundness in pigs. Pig American, November, 1983.

17. Rothschild, M. F. Will genetic engineering revolutionize swine breeding? Hog Farm Management, February, 1984.

18. Rothschild, M. F. Simplifying performance testing. Hog Farm Management, February, 1984.

19. Rothschild, M. F., L. Young, C. Christians, and J. Wheat. Swine genetic abnormalities. Yorkshire Journal, July, 1984.

20. Rothschild, M. F. Engineering genetics for the future. Yorkshire Journal, July, 1984.

21. Rothschild, M. F. Disease resistance in the pig: a real possibility. Feedstuffs Magazine, September, 1984.

22. Rothschild, M. F. Engineering genetics for the future. Agri-Practice, March 1985, pp. 13-17.

23. Rothschild, M. F. Selection for front feet and leg structure in pigs. Iowa Pork Producers, June 1985, pp. 18-19.

24. Rothschild, M. F. Swine improvement in France. Iowa Pork Producers, April, 1986, pp. 10-11.

25. Rothschild, M. F. Chinese crossbred sows excel in France's on-the-farm tests. National Hog Farmer, Sept. 15, 1986, pp. 37-40.

26. Hawkins, P. A. and M. F. Rothschild. 1987. Miniature swine - Sus scrofa. Iowa Pork Producer Magazine, August, pp. 6-7.

27. Rothschild, M. F. 1988. Genetic control of structural soundness. Purebred Picture, Dec./Jan, p. 6-7.

28. Rothschild, M. F., M. E. Einstein, D. L. Lofgren, and T. Stewart. 1988. Accurate estimation of breeding values in swine. How big should contemporary groups be? Purebred Picture April/May, pp. 5-6.

29. Rothschild, M. F., and L. Y. Wang. 1988. Chinese pigs: A new research tool. Iowa Pork Producer Magazine, August, p. 14.; Oklahoma Pork Page Vol. 2, p 5.

30. Rothschild, M. F. 1990. DNA typing: A new tool for swine breeding. Hampshire Herdsman, July, pp. 134-135.

31. Rothschild, M. F. 1990. Questions, answers, at international meeting on Chinese pig. Iowa Pork Producers Association Magazine, September, pp. 21-22.

32. Rothschild, M.F. 1993. New efforts to coordinate U.S. pig gene mapping programs. Duroc and Hampshire Pork Producers Reference Issue 2(1), p. 60.

33. Rothschild, M. F. 1994. Effect of genetic changes on pork production. Misset International Pigs 10 (1), pp. 20-21.

34. Rothschild, M. F. 2000. Breakthrough genetic tests open new opportunities for Hampshire breeders. Seedstock Edge (July).

35. Rothschild, M. F. 2001. Breakthrough genetic tests open new opportunities for pig producers and breeders. Pig World, October.

36. Rothschild, M. F. 2001. La genetica abre nuevas opportunidades para los productores y criadores de porcino. Albeitar (Spain) 51, pp. 10-11.

37. Rothschild, M .F. 2004. DNA advances offer big payoffs. Pig Progress Magazine. 20, pp. 1-3.

38. Rothschild, M.F. and Misra. 2005. Biosciences have potential at ISU. Guest editorial, Ames Tribune Dec 4

39. Mote, B. and M.F. Rothschild. 2006. Sow longevity marker genes confirmed. National Hog Farmer. Dec 15. pg 17

40. Rothschild, M.F. Bringing home the bacon: Sequencing the pig genome. Pork. Jan 2007.

41. Stalder, K., and M. Rothschild. 2008. Pork production improvement expected from the use of new markers. Western Hog Journal, Alberta Pork, Edmonton, Alberta, Canada, 30(2):33-35.

42. Rothschild, M.F., D.M. Gorbach, B. Fan, S.K. Onteru, Z.-Q. Du, J.C.M. Dekkers, K. Stalder, D. Garrick, and R. Fernando. 2009. Improving swine genetics using new genotyping technology. National Hog Farmer, December Research Issue

43. Rothschild, M.F., D.M. Gorbach, B. Fan, S.K. Onteru, Z.-Q. Du, J.C.M. Dekkers, K. Stalder, D. Garrick, and R. Fernando. 2010. Improving swine genetics using new genotyping technology. National Hog Farmer, Feb 15th, 2010.

44. Rothschild M.F. 2014. Today's challenge: Feeding the world. Cedar Rapids Gazette, November 27.

45. Rothschild M.F. 2016. Picking a winning Trifecta: Thoroughbreds, Genetics and Genomics. Juddmonte farms sales information.

Books and Lab Manuals

1. Spike, P. L., M. F. Rothschild, W. W. Wunder, and P. O. Brackelsberg (Eds.). 1981-1991. Applied Animal Breeding Laboratory Manual for AnS 352.

2. Warner, C. M., M. F. Rothschild, and S. J. Lamont (Eds.). 1988. The Molecular Biology of the Major Histocompatibility Complex of Domestic Animal Species. ISU Press, Ames.

3. Sellier, P. and M. F. Rothschild. 1991. Breed identification and development. In: World Anim. Sci. Vol. 12, Genetic Resources of Pig, Sheep and Goat.

4. Warner, C. M. and M. F. Rothschild. 1991. The major histocompatibility complex of the pig. In: Immunogenetics of the MHC. VCH Publishers, NY.

5. Rothschild, M. F. 1991. Selection under challenging environments. In: Breeding for Disease Resistance in Farm Animals. CABI Press. pp. 73-85.

6. Straw, B. E. and M. F. Rothschild. 1992. Genetic influences on liability to acquired disease. In: Diseases of Swine, 7th ed. ISU Press, Ames, IA. pp. 709-717.

7. Rothschild, M. F. and A. Ruvinsky (Eds). 1998. Genetics of the Pig. CABI Press. 622 pp.

8. Ruvinsky, A. and M. F. Rothschild. 1998. Systematics and evolution of the pig. In: Genetics of the Pig, M. Rothschild and A. Ruvinksy (Eds.). CABI Press. pp. 1-16.

9. Rothschild, M. F. and J. P. Bidanel. 1998. Biology and genetics of reproduction. In: Genetics of the Pig, M. Rothschild and A. Ruvinksy (Eds.). CABI Press. pp. 313-343.

10. Rothschild, M. F., L. Skow, and S.J. Lamont. 1999. The major histocompatibility complex and its role in disease resistance and immune responsiveness. In: Breeding for Disease Resistance in Farm Animals, Edition 2. CABI Press. pp. 73-106.

11. Dekkers, J. C. M., S. J. Lamont, and M. F. Rothschild. 1999. From Jay Lush to Genomics: Visions for Animal Breeding and Genetics. Iowa State University.

12. Sponenberg, D. P. and M. F. Rothschild. 2001. Genetics of color and hair texture. In: Genetics of the Dog, A. Ruvinsky (Ed.). CABI Press.

13. Rothschild, M.F. and S. Newman. 2002. Intellectual Property Rights in Animal Breeding and Genetics. CABI. 272 pp.

14. Rothschild, M.F. and G.S. Plastow. 2002. Development of a genetic marker for litter size in pigs: a case study. In: Intellectual Property Rights in Animal Breeding and Genetics. Rothschild, M.F. and S. Newman (Eds.). CABI. Pp. 197-212.

15. Rothschild, M.F. J. P. Bidanel, and D. C. Ciobanu. 2004. Genome analysis of QTL for muscle tissue development and meat quality. In: Muscle Development of Livestock Animals. Physiology, Genetics and Muscle Quality, M. F. W. te Pas, H.P. Haagsman, and M.E. Everts (Eds.). CABI Publishing .

16. Rothschild, M. F., G. S. Plastow, and S. Newman. 2004. Patenting in animal breeding and genetics. In: WAAP Book of the Year 2003. A. Rosati. A., A. Tewolde, and C. Mosconi (Eds.). Pp 269-280

17. Ciobanu, D.C., Rothschild, M.F., Plastow, G.S. 2005 [The role of molecular genetics in animal breeding: strategies and results. In Animal Breeding Programs] Ed. Oltenacu, N., Grosu, H., Ceres, Bucharest.

18. Rothschild, M.F. and A. Ruvinsky. 2007. Marker Assisted Selection for Aquaculture Species. In: Aquaculture Genome technologies Ed. J. Liu. Blackwell Press

19. Fan, B., D.M. Gorbach, and M.F. Rothschild. The pig genome project has plenty to squeal about. Animal Genomes, in Genome Dynamics Vol. 8, 2010, Editor: B. P. Chowdhary.
20. Robalino, J., R.W. Chapman, E. Del la Vega, N. A. O'learly, D.M. Gorbach, Z.-Q. Du, M.F. Rothschild, C. L. Browdy, G. Warr and Y. Labreuche. 2010. Advances in genomics and genetics of commercial shrimp species. In Aquaculture Biotechnology. Editors: Matt Rise and Garth Fletcher.
21. Rothschild, M. F. and A. Ruvinsky (Eds). 2011. Genetics of the Pig Ed2. CABI Press. 700 pp
22. Long, J. and M. F. Rothschild. 2015. Intellectual property rights and animal genetic resources. In. Molecular and Quantitative Animal Genetics. Khatib H (editor) Wiley-Blackwell, Oxford, UK
23. Rothschild, M.F. Swine genetics and Genomics Improvement. 2015. In. Molecular and Quantitative Animal Genetics. Khatib H (editor) Wiley-Blackwell, Oxford, UK

Film and Video Materials

1. "Progress through performance." Iowa State University Film Production Unit. 1982. Served as technical consultant.
2. Livestock Improvement Through Animal Breeding, Animal Science 352, Video Lectures, 1988-1989.
3. Chinese pigs: A new Research Tool for Iowa State University. College of Agriculture Video, 1989.

Newsletters

1. Pig Genome Update. 1993- 2013. Pig gene mapping information, M.F. Rothschild editor. (110 issues as of Jan 1, 2012).
2. Contributions to several National Animal Genome Newsletters.

White Papers

1. Rohrer, G., J. E. Beever, Max F.Rothschild, R. Gibbs, G. Weinstock, and L. Schook. 2002. Porcine Genomic Sequencing Initiative. NHGRI

Patents

1. Max F. Rothschild and Carol D. Jacobson. 1994. Patent Application "Genetic Markers for Litter Size". Patent no. 5374526.

2. Max F. Rothschild, Carol D. Jacobson, D. Vaske, C.K. Tuggle, A. Mileham and G. Plastow. 1996. Patent Application "Genetic Markers on Increased Litter Size". Patent No. 5,550,024.

3. Max F. Rothschild, Amy L. Vincent, Christopher K. Tuggle. 1999. Prolactin receptor gene as a genetic marker for increased litter size in pigs. Patent No. 5,935,784.

4. Max F. Rothschild, Christopher K. Tuggle, Lori A. Messer, Tun-Ping Yu. 1999. Genes and genetic markers for improved reproductive traits in animals. Patent No. 5,939,264.

5. Max F. Rothschild, Amy Vincent, Catherine Ernst. 2002. Leptin receptor gene as a genetic marker for leanness in pigs. Patent No. 6,458,531 .

6. Max F. Rothschild, Kwan Suk Kim, and Niels J. Larsen. 2004. Melanocortin-4 receptor gene and use as a genetic marker for fat content, weight gain, and/or feed consumption of animals, issued on 10/12/04. Patent number 6,803,190.

7. Max F. Rothschild, Daniel C. Ciobanu, Massoud Malek, and Graham Plastow. PRKAG3 alleles and use of the same as genetic markers for reproductive and meat quality traits, issued on 7/19/2005, Patent number 6,919,177.

8. Max F. Rothschild, Kwan Suk Kim, Lloyd Anerson. Novel Ghrelin alleles and use of the same for genetically typing animals. Issued on 7/11/2006. patent number 7,074,562

9. Max F. Rothschild, Amy L. Vincent, Christopher K. Tuggle, Christy Gladney, Alan Mileham, Olwen Southwood, Graham Plastow, and Carole Sargent. "Prolactin Receptor Gene as a Genetic Marker for Increased Litter Size in Animals," Issued on July 25, 2006. Patent No. 7,081,335

10. Max F. Rothschild, Kwan-Suk Kim, and Nguyet Thu Nguyen. "HMGA alleles and use of the same as genetic markers for growth, fatness, meat quality, and feed efficiency traits," issued on July 17, 2007. Patent number 7,244,564.

11. Max F. Rothschild, Dr. Kwan-Suk Kim, and Rebecca S. Emnet Miculinich. "Genetic Markers for Improved Meat Characteristics in Animals (MC4R) issued on December 4, 2007. Patent No. 7,303,878

12. Max F. Rothschild and Daniel Ciobanu. Novel Calpastatin (CAST) Alleles issued on December 1, 2009 Patent No. 7,625,703

Several of these have been issued as patents in a number of countries.