



ISAG
CONFERENCE 2014, Xi'an, China

ISAG-FAO Advisory Group on Animal Genetic Diversity
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STANDING COMMITTEES / WORKSHOPS	Information will be posted online
Organised by a standing committee	yes
Date and meeting time:	July 29, 2014, 14:00-17:00
Chair, name and contact email:	Catarina Ginja, catarinaginja@gmail.com
Agenda / programme attached:	Yes
Number of participants at meeting:	90-120 (see appended list of participants)
Summary of the meeting including votes, decisions taken and plans for future conferences (for details please see attached report)	

The Workshop of the ISAG-FAO Advisory Group on Animal Genetic Diversity was held during the 34th ISAG Conference in Xi'an, China, on the afternoon of Tuesday, July 29, 14:00-17:00. The workshop was chaired by Dr. Catarina Ginja (University of Lisbon, Portugal) and also coordinated by Dr. Yinhua Huang (China Agricultural University). The program included 10 invited presentations and the meeting was attended by approximately 120 participants. In the end of the workshop, the ISAG-FAO Advisory Group on Animal Genetic Diversity convened for a business meeting.

Committee members (the new committee)

Chair: Dr. Catarina Ginja (also cattle representative)

E mail address: catarinaginja@gmail.com

Other members:

Dr. J. A. Lenstra (Utrecht University, chairman and cattle representative until July 29, 2014)

E mail address: j.a.lenstra@uu.nl

Dr. P. Ajmone Marsan (Università Cattolica del Sacro Cuore, Piacenza, sheep and goat representative)

E mail address: paolo.ajmone@unicatt.it

Dr. P.Boettcher (FAO, Roma, secretary)

E mail address: Paul.Boettcher@fao.org

Dr. G.Cothran (Texas A&M University, horse representative)

E mail address: gcothran@uky.edu

Dr. O. Hanotte (Nottingham University, camelids and yak representative)

E mail address: olivier.hanotte@nottingham.ac.uk

Dr. J.L. Han (Chinese Academy of Agricultural Sciences, Beijing, camelids and yak representative)

E mail address: H.JIANLIN@cgiar.org

Dr. S. Kumar (National Institute of Animal Biotechnology, Hyderabad, India, water buffalo representative)

E mail address: satishk@niab.org.in

Dr. D. Milan (Toulouse, pig representative)

E mail address: milan@toulouse.inra.fr

Dr. S. Weigend (Institute of Farm Animal Genetics, Mariensee, chicken representative)

E mail address: weigend@tzv.fal.de

WORKSHOP REPORT

The Workshop of the ISAG-FAO Advisory Group on Animal Genetic Diversity was held during the 34th ISAG Conference in Xi'an, China, on the afternoon of Tuesday, July 29, 14:00-17:00. The workshop was chaired by Dr. Catarina Ginja (University of Lisbon, Portugal) and also coordinated by Dr. Yinhua Huang (China Agricultural University). The program included 10 invited presentations and the meeting was attended by approximately 120 participants. Invited speaker, Dr. Anders Götherström (Stockholm University), could not attend the meeting due to health problems, thus his communication 'Gene flow and admixture in the domestication of Europe' had to be cancelled.

The following communications were presented:

C. Ginja (University of Lisbon)

Sharing of maternal lineages between aurochs and domestic cattle in the Iberian Peninsula: introgression and/or local domestication?

H. Bahbahani (University of Nottingham)

Genome-wide identification of signatures of positive selection in African admixed zebu cattle

M. Weldenogduad (University of Eastern Finland)

Whole genome sequencing of three native cattle breeds from northernmost cattle farming regions

T. Tozaki (Laboratory of Racing Chemistry)

Whole-genome resequencing of Japanese native horses for SNP and INDEL discovery

F. Almathen (University of Nottingham)

Large scale geographic mitochondrial DNA analysis provide insights on the demographic and evolutionary history of the dromedary (*Camelus dromedarius*)

J. Kijas (CSIRO)

Whole genome sequencing reveals genomic signatures of selection in native bighorn sheep populations

F. Muchadeyi (Agricultural Research Council)

Linkage disequilibrium and population structure of South African indigenous goat populations using genome wide SNP data

S. Weigend (Friedrich-Loeffler-Institut)

The Synbreed Chicken Diversity Panel – a resource for fine scale diversity studies

Xiaoyong Du (Huazhong Agricultural University)

Whole Transcriptome SNP Discovery and Analysis of Genetic Diversity in Five Duck
(*Anas platyrhynchos*) Populations

Huashui Ai (Jiangxi Agricultural University)

Population-scale whole-genome sequencing reveals signatures of local adaptation in
domestic pigs

These works were selected among 57 abstracts based on their quality and to cover a wide range of molecular markers and species from different regions of the globe.

Business meeting

Five members of the Advisory Group (J. A. Lenstra, G. Cothran, O. Hanotte, J.L. Han, and S. Weigend) attended the ISAG conference in China. During a short and informal business meeting immediately following the workshop, a new member was elected unanimously (5 votes), namely: Dr. Catarina Ginja, as chairperson and cattle representative.

Also, it was agreed that this workshop fulfils a useful purpose and deserves to be continued. Hans Lenstra and Catarina Ginja drafted a table to summarize recent publications and ongoing internationally coordinated projects regarding the genetic diversity of domestic animal species and of their wild relatives. The committee decided to prepare and co-author a technical review, for publication in *Animal Genetics*, describing the rapid changes and new challenges associated to the use of genomics and high-throughput methods to investigate the genetic diversity of domestic animal species. Dr. Olivier Hanotte highlighted the fact that the ISAG should take a step forward in providing guidelines to researchers in this field, and also join efforts to encourage the release of genomic data in public databases (e.g. NCBI, EMBL). Thought to be developed in coordination with FAO, such publication is important to guide its member countries in the adoption and use of these new tools. Invitations for contributions will be sent to key researchers and members of international genomic consortia. No other points were put forward and the meeting was closed.

COMPARISON TEST (2013-2014)

no

SIGNATURES

This report was revised and approved by the members of the ISAG-FAO Advisory Group on Animal Genetic Diversity.

Chair

A handwritten signature in black ink that reads "Catarina Ginja". The signature is written in a cursive style with a horizontal line crossing through the middle of the name.

Catarina Ginja, PhD

ISAG-FAO Workshop on Animal Genetic Diversity - Room 406

29-Jul-14

Chair: Catarina Ginja
 Coordinator: Yinhua Huang

Please sign if you are attending to this workshop

Name	Institution Name	ISAG Member	E-mail address
Xianyang Lan	Northwest A & F university		lanxianyang79@nwsuaf.edu.cn
Guanglei Li	Huazhong Agricultural University		liguanglei9@126.com
Pan Xu	Jiangxi Agricultural University		347658704@qq.com
Jing Li	Jiangxi Agricultural University		lijing9695@126.com
Jiugi Gao	Northwest A & F university		492822836@qq.com
Zhigang Niu	Animal Science Academy of Xinjiang		XjNZG@126.com
Heather Adams	Cooperative Resources International	YES	hadams@crinct.com
Shoni Zwane	ARC	NO	zwanea@arc.agric.za
Gao Tianfu Gao	Jiangxi Agricultural University		124032450@qq.com
Shaohua Yang	China Agricultural University	NO	yangshaohua309@126.com
Xiaogang Cui	China Agricultural University	Yes	398304310@qq.com
Wang Bo	Northwest A & F University	No	851175277@qq.com
Shuai Yu	Northwest A & F University	No	1208473729@qq.com

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Name	Institution Name	ISAG Member	E-mail address
Dr SATISH KUMAR	NIAB Hyderabad		SATISHK@NIAB.REB.IN
Jing Ouyang	Jiangxi Science & Technology Normal University		ouyangjing99@126.com
Ming Yang	Guangdong Wens Food group Limited Habitat company		mingzi0213@hotmail.com
Ruimin Qiao	Jiangxi Agricultural University		qrm180@hotmail.com
Bao Fan	Huazhong Agri. Univ.		fb2680@gmail.com
Wenping Zhang	chengde research base of Scientific animal breeding		zhang_zoology@163.com
Steffen Weigend	Friedrich-Lodfler-Institut	yes	steffen.weigend@fli.bund.de
J.A. Lenstra	Utrecht University	yes	J.A.Lenstra@uu.nl
J.M. MWACHARE	ICARDA	yes	J.M.WACHARE@CGIAR.ORG
Lijing Bai	baizijing0730@163.com	yes	China Agriculture University
Xiao Chen	China Agricultural University		chg906@126.com
Minhui Chen	China Agricultural University		anzmb_cmh@163.com
Karin Juling	Europlus		karinjuling@europlus.com
Guo-Dong Wang	Kunming Institute of Zoology, CAS	yes	wanggd1983@gmail.com
Veronika Kharzina	All-Russian Research Institute of animal breeding, Russia	-	veronika0784@mail.ru
Annie Pan	University of Sydney	yes	apan3951@uni. sydney.edu.au
Renzhongjun	Northwest A&F University		renzhongjun@nwsuaf.edu.cn

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Name	Institution Name	ISAG Member	E-mail address
Tan Tan	China Agricultural University		tanforever@foxmail.com
Qiang Baolong	Tibet University		qby268@126.com
Zhao Panling	Tibet University		ylzhaohm@163.com
Lu Jing	Huazhong Agricultural University	no	deer66@126.com
Shen Fujun	Chengdu GB.		shenfj001@Sina.com
Qin Qiwen	Inner Mongolia Agricultural		sqgl_ima@163.com
SOLIMEN NASKAR	NATIONAL RESEARCH CENTRE FOR FIS (INDIAN COUNCIL OF AGRIC. RESEARCH)		surana@gmail.com
Li Shangqi	Chinese Academy of Fishery Science	No	lishq@cafs.ac.cn
Wenzhu Peng	Chinese Academy of Fishery Science	No	695705687@qq.com
Chuanju Dong	Chinese Academy of Fishery Sci.	No	cjd0989@126.com
Xuan Luo	Xiamen University	No	xluo@xmu.edu.cn
Becky Ewalt-Evans	VGL - UC Davis	Yes	sewalt@ucdavis.edu

12

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Name	Institution Name	ISAG Member	E-mail address
Abdulfatai Tijjani	NATIONAL BIOTECHNOLOGY DEVELOPMENT AGENCY, NIG.	Yes	FATAIATC@1attoo.com
Li Jingxin	Jiangsu Academy of Agricultural Sciences	Yes	xx1516217@163.com
Xing Guangdong	Jiangsu Academy of Agricultural Sciences	Yes	xing-gd@aliyun.com
Mehdaoui Abderrahmane / mehdaouiagr	University of	No	m
Mehdaoui Abderrahmane	University of Babou	Yes	mehdaouiagroina@yahoo.fr
Chantxu Park	Kontukt Univ.	Yes	chantxu@kontukt.ac.kr
Huashui Ai	Jiangxi Agricultural University	Yes	aihsh@hotmail.com
Guangli Yang	Shanghai Normal University	Yes	guangliyong@163.com
Ying Su	Jiangxi Agriculture University	No	xy19880910@yeh.net
Wangjun Wu	Nanjing Agricultural University	Yes	wuwangjun2012@njau.edu.cn
Pinghua Li	Nanjing Agricultural University	Yes	2013034@njau.edu.cn

10

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Name	Institution Name	ISAG Member	E-mail address
Hongmeili	SCAU	Yes	hongmeili@scau.edu.cn
Fenghua Lv	CAS	Yes	fenghua.lv@126.com
Deng Jie	CAS	Yes	dengjie@ioz.ac.cn
Yongxin Zhao	CAS	Yes	zhao.yongxin@ioz.ac.cn
Min Zhang	CAS	Yes	zhangmin0810396@126.com
Ji Yang	CAS	Yes	yangji@ioz.ac.cn
Ponja Blaauw	Barari Forest Manag.	Yes	ponja@barari.ae
Zhen Wang	Shanghai Jiaotong University	No	wangzhen12@sjtu.edu.cn
Jiueheng Chen	Zhejiang University	No	11217007@zju.edu.cn
Zhang Zhe	SJTU	Yes	2233286108@163.com
Xiao Qian	SJTU	Yes	xiaoqian2013@sjtu.edu.cn
Xiao Wang	CAU	Yes	wang.xiao88093@gmail.com
WANG Yun	CAU	Yes	405292999@99.com
Gao Yuhui	CAU	Yes	812956123@99.com
Lin Rui	Sichuan Animal Science Academy	No	Linruican@126.com
Aoxing Liu	CAU	No	liuaoxing@cau.edu.cn
Chunwei Cao	CAS	Yes	ccw370920866@163.com
Eus Cothran	TAMU	Yes	gcothran@crm.tamu.edu

Name	Institution Name	ISAG Member	E-mail address
Dongying	Beijing Fishery Research Institute	Yes	dongyingfish@163.com
Duan Gui	SYSU	No	448043440@qq.com
Yangfen WANG	OUC	No	yfwang@ouc@163.com
Yue Cai	BGI	No	caiyue@genomics.cn
Yiren Gu	Sichuan Animal science academy	No	guyiren128@163.com
Jian Hua	Shanxi Agricultural University	No	
Xiaohong Guo	Shanxi Agricultural University	No	
Pengfei Gao	Shanxi Agricultural University	No	gpf805411@26.com
TRASPOV ALEKSEI	Shanxi Agricultural University	Yes	trasporalex@gmail.com

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Name	Institution Name	ISAG Member	E-mail address
Tang Guoqing	Sichuan Agriculture University	No	tyq003@163.com
Jiang Yanzhi	Sichuan Agri Uni	No	Jiangyz204@163.com
Lin fan	Jiangxi Agriculture University	No	fanlin8662@126.com
Zhaofeng Huang	Sun Yat-sen Univ	No	huangzhaofeng@gmail.com
Xueyan Zhao	Jiangxi Agricultural University	No	469723020@qq.com
Chenlong Liu	Jiangxi Agricultural University	No	569301973@qq.com
Li Juan Hou	Jiangxi Agricultural university	No.	397999166@qq.com
Lisheng Zhou	Jiangxi Agricultural University	No	25123668@qq.com

80

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Name	Institution Name	ISAG Member	E-mail address
Ying Ying	Institute of special animal of caas		Tcy ying ying@163.com
Rong Min			
Riku Yonesaka	kobe univ.	yes	
Tian Dong	Beijing Fisheries Research Institute		yinghua328@163.com
Ruhai Xu	Zhejiang academy of agricultural science		xurhai@163.com
Juha Koutanen	MTT Agrifood Research Finland		juha.koutanen@mtt.fi
Jaana Peippo	"		jaana.peippo@mtt.fi
Kisun Pokharel	"	"	kisun.pokharel@mtt.fi
Melak Walden	"	"	melak.walden@mtt.fi

9