

Curriculum Vitae: Shirley A Ellis

Degrees: BSc 2.1 (Biology) University of Sussex, 1976
MSc, University of Wales, 1979
PhD, CNA, 1989
MA University of Sussex, 2007

Posts Held: Research Assistant, Nuffield Dept Medicine / Institute of Molecular Medicine, Oxford, 1979-1990
Principal scientist / Group leader, Institute for Animal Health, 1990-present

The work of my group mainly centres on analysis of the genetic diversity present in families of genes involved in cattle immune responses and disease resistance. Over a period of ~20 years I have become established as a world expert in the area of cattle immunogenetics, publishing widely during this time, and speaking at many international meetings. I have expanded my area of work from MHC to encompass the diverse receptors that have been shown in human and mice to interact with MHC molecules, primarily natural killer cell receptors. I am currently taking advantage of the wealth of information becoming available in the cattle genome.

Measures of esteem:

Honorary Professor at University of Glasgow (since 2009)
Fellow of the Higher Education Academy (since 2006)
Member of the BBSRC Training Awards Committee (since 2008)
Member of the Editorial Board of *Immunogenetics* (since 2008)
Member of the Editorial Board of *Journal of Reproductive Immunology* (1996-2006)
Chair of ISAG Comparative MHC Nomenclature Committee (2002-present)
Joint chair of ISAG BoLA Nomenclature Committee (2003-present)
Curator of cattle MHC sequences on Immuno Polymorphism Database (<http://www.ebi.ac.uk/ipd/mhc/bola/>) (2004-present)

PhD students supervised:

I have successfully supervised 11 PhD students.

Recent publications:

Guzman E, Birch J, **Ellis SA** (2010) Cattle MIC is a ligand for the activating NK cell receptor NKG2D. *Vet Immunol Immunopathol* In press
O'Gorman GM, Naib AA, **Ellis SA**, Mamo S, O'Doherty AM, Lonergan P, Fair T (2010) Regulation of a bovine nonclassical MHC class I promoter. *Biology of Reproduction* In press
Bovine Genome Sequencing and Analysis Consortium (includes **Ellis SA**) (2009) The genome sequence of taurine cattle: a window to ruminant biology and evolution. *Science* 324(5926):522-528
Dobromylskyj MJ, Connelley T, Hammond JA, **Ellis SA** (2009) Cattle Ly49 is polymorphic. *Immunogenetics* 61:789-795
Birch J, De Juan Sanjuan C, Guzman E, **Ellis SA** (2008) Genomic location and characterisation of MIC genes in cattle. *Immunogenetics* 60: 477
Guzman E, Taylor G, Charleston B, Skinner MA, **Ellis SA** (2008) An MHC-restricted CD8 T cell response is induced in cattle by foot-and-mouth disease virus infection and also following vaccination with inactivated FMDV. *Journal of General Virology* 89:667
Chavatte-Palmer P, Guillomot M, Roiz J, Heyman Y, Laigre P, Serveley JL, Constant F, Hue I, **Ellis SA** (2007) Placental expression of MHC class I in bovine somatic clones. *Cloning and Stem Cells* 9:346

I have approximately 75 publications in peer-reviewed journals.

