

## CURRICULUM VITAE

### Personal data

Name: Olivier Hanotte, PhD, FSB  
Address: International Livestock Research Institute (ILRI – Ethiopia), P.O.  
5689 Addis Ababa, Ethiopia  
E-mail: o.hanotte@cgiar.org, olivier.hanotte@nottingham.ac.uk  
Skype: redjunglefowl  
Website: <http://www.nottingham.ac.uk/life-sciences/people/olivier.hanotte>  
ResearchGate: [https://www.researchgate.net/profile/Olivier\\_Hanotte](https://www.researchgate.net/profile/Olivier_Hanotte)



### Academic training and degrees

1991 PhD in Zoology (Doctorat en Sciences Zoologiques)  
Université de Mons-Hainaut, Belgium and University of Leicester, UK  
1984 Agrégation de l'Enseignement Secondaire Supérieur  
Université Libre de Bruxelles (ULB), Belgium.  
1983 Licences en Sciences Zoologiques  
Université Libre de Bruxelles (ULB), Belgium.

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### Current occupation

*Jan 2016 – Present: Principal Scientist, International Livestock Research Institute (ILRI), Addis Ababa, Ethiopia and Professor of Population and Conservation Genetics The University of Nottingham School of Life Sciences, United Kingdom.*

**Scientific leadership:** The central theme of my research is the understanding at the genome level of the genetic adaptations of “tropical” livestock to their production environments. We aim to unravel the genetic control of functional diversity for their uses in breeding improvement programs. We studied both Mendelian and quantitative traits. We use as tools next generation sequencing (NGS) and high-density genome wide SNP chips microarrays genotyping. Our model includes livestock population selected intensively by human (productivity and morphological traits) as well as indigenous population in the tropics under natural selection (e.g. survival traits such as disease resistances, adaptation to climatic challenges such as drought). We use genome wide molecular approaches, bioinformatics and statistical analysis for the detection and the mapping of signature of selection. A major baseline element of our work is the understanding of the genetic history of our model species and livestock genetic resources characterization is an important component of our research strategy. Ongoing research activities include: (i) the study of genetic adaptation to infectious parasitic diseases in western African taurine and in indigenous African zebu cattle; (ii) the unravelling of the genetic control of milk production in indigenous African cattle; (iii) The understanding at genome level of the mechanism of adaption of indigenous chicken population in Ethiopia, Tanzania and Nigeria; (iv) The understanding of the evolutionary history and adaptation of indigenous African sheep; (v) the unraveling of the genetic history of chicken diversity.

**Management and leadership:** At the University of Nottingham (UK), I am supervising a research team of one post-doctoral scientist and 6 PhD students, all from developing countries. At ILRI, I am managing the

Animal Genetic flagship of the CGIAR Livestock CRP, a 3 million annual research portfolio. In Ethiopia, I am supervising one ILRI graduate PhD student, registered at the University of Addis Ababa, and I am providing scientific inputs to the ILRI led African Chicken Genetic Gains (ACGG) project in three countries (Ethiopia, Tanzania, Nigeria). I am also the co-PI of the poultry genomics program of the Center for Tropical Livestock Genetics and Health (CTLGH), a strategic alliance between the Roslin Institute, the University of Edinburgh, Scotland's Rural College and ILRI (<http://www.ctlgh.org/>).

**Past employments:** Jan 2009 – Dec 2015: The University of Nottingham, Professor of Population and Conservation Genetics (School of Life Sciences). Jan 2009 – Dec 2010: Director of the Frozen Ark. Jul 95 – Dec 2008: International Livestock Research Institute (CGIAR - ILRI), Project Leader Improving Animal Genetic Resources (AnGR) Characterization - Senior Scientist (since July 2003), Scientist (1998-2003), Post-Doctoral Scientist (1995-1997). Oct 91-Jun 95: Post-doctoral Research Associate, University of Leicester, Leicester, United Kingdom. April 94-May 94: Invited Professor of Genetics at the Universidade de São Paulo, Brazil. Oct 88-Oct 91: Assistant à temps plein, Faculté de Medecine, Université de Mons-Hainaut, Mons, Belgium and University of Leicester, United Kingdom. Oct 87-Sep 88: Sous-Lieutenant at the Belgian Royal Air Force. Oct 84-Oct 87: Assistant à temps plein, Faculté de Médecine, Université de Mons-Hainaut, Mons, Belgium.

**Professional affiliations and member of editorial boards:** Elected Fellow of the Royal Society of Biology (FSB) (UK) (2011). Member of the Belgian Society of Biochemistry and Molecular Biology, Genetical Society (United Kingdom), International Society for Animal Genetics, Member of the 'ISAG-FAO Advisory Group on Animal Genetic Diversity'. Member of the ISAG Livestock Genomics for Developing Country Standing Committee.

Member of the editorial advisory board of the 'Encyclopedia of Animal Science' (until 2010), Member of the editorial board of *Animal Genetics* (2003 - 2010), *Journal of Animal Breeding and Genetics* (2003 - present). Associate Editor *Scientific Reports* (Oct. 2014 - 2016).

**Review and evaluation activities:** Scientific advisor to the Commonwealth Scholarship Commission (United Kingdom 2010-2016), reviewer to the Portuguese Foundation for Science and Technology (Wellcome II Program), Member of INRA (France) Scientific Commission (Scientific Staff Promotion Panel) (2011-2014). Evaluator for the BBSRC – DfID 'Combating Infectious Diseases of Livestock for International Development (CIDLID) call (2010). Grant reviewers for BBSRC, The French National Research Agency (ANR). Mid-term evaluator of the UNEP-GEF – ILRI Farm Animal Genetic Resources (FAnGR) Asia Project "Development and application of decision-support tools to conserve and sustainably use genetic diversity in indigenous livestock and wild relatives" (goat, chicken and pig) (September - December 2011). Member of the biotechnology review panel (livestock) of the 'Independent and Science and Partnership Council (ISPC - CGIAR) (5 days (December 2013 – January 2014), Member of the Review Team ICARDA CCER on Livestock Systems Research (November - December 2014).

Scientific referee for *Science*, *Animal Genetics*, *Molecular Ecology*, *Animal Conservation*, *Journal of Virology*, *Journal of Animal Breeding and Genetics*, *Journal of Molecular Biology and Evolution*, *Proceeding of the National Academy of Sciences USA* (PNAS) etc..

**Scientific publications:** 180 articles (including in *Science*, *Nature*, *PNAS*, *Molecular Ecology*, *Genome Biology* etc .. ), 17 conference papers, 17 datasets, etc. in the field of animal genetics and genomics, full list available at [https://www.researchgate.net/profile/Olivier\\_Hanotte](https://www.researchgate.net/profile/Olivier_Hanotte). Citation 7203, h – index 40 (Google Scholar consulted on the 02/03/2017).

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