

## CURRICULUM VITAE

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### EDUCATION:

- Ph.D.  
(09/2017-12/2020)
- Major: Animal Production (Animal Genomics)
  - Centre for Research in Agricultural Genomics (CRAG), CSIC-IRTA- UAB-UB, Universitat Autònoma de Barcelona, Bellaterra, 08193, Spain
- M.A.  
(09/2014-07/2017)
- Major: Animal Genetics, Breeding and Reproduction Science
  - Chongqing Key Laboratory of Forage & Herbivore; College of Animal Science and Technology, Southwest University, Chongqing 400715, China
- B.A.  
(09/2010-07/2014)
- Major: Animal Science
  - College of Animal Science and Technology, Southwest University, Chongqing 400715, China

### WORKING EXPERIENCE:

- 03/2021 – present: Postdoc scholar in the University of California Davis

### AREAS OF INTEREST:

Bioinformatics, functional genomics, animal epigenomics, population genetics.

## PUBLICATIONS:

- Guan D**, Martínez A, Luigi-Sierra MG, Delgado JV, Landi V, Castelló A, Fernández Álvarez J, Such X, Jordana J. & Amills M. Detecting the footprint of selection on the genomes of Murciano-Granadina goats. *Animal Genetics*. 2021; <https://doi.org/10.1111/age.13113>.
- Guan D**, Castelló A, Landi V, Landi V, Luigi-Sierra MG, Álvarez JF, Cabrera B, Delgado JV, Such X, Jordana J & Amills M. A genome-wide analysis of copy number variation in Murciano-Granadina goats. *Genetics Selection Evolution*. 2020; 52: 44.
- Guan D**, Landi V, Luigi-Sierra MG, Delgado JV, Such X, CastellóA, Cabrera B, Mármol-Sánchez E, Fernández-Alvarez J, de la Torre Casañas JLR, Martínez A, Jordana J & Amills M. Analyzing the genomic and transcriptomic architecture of milk traits in Murciano-Granadina goats. *Journal of Animal Science and Biotechnology*. 2020; 11: 35.
- Guan D**, Mármol-Sánchez E, Cardoso TF, Such X, Landi V, Tawari NR & Amills M. Genomic analysis of the origins of extant casein variation in goats. *Journal of Dairy Science*. 2019; 102: 5230-5241.
- Guan D**, Castelló A, Luigi-Sierra MG, Landi V, Delgado JV, Martínez A, Amills M. Estimating the copy number of the agouti signaling protein (*ASIP*) gene in eight goat breeds. *Livestock Science*. 2021; 246:104440.
- Guan D**, Luo N, Tan X, Zhao Z, Huang Y, Na R, Zhang J & Zhao Y. Scanning of selection signature provides a glimpse into important economic traits in goats (*Capra hircus*). *Scientific Reports*. 2016; 6: 36372.
- Mármol-Sánchez E, Luigi-Sierra MG, Castelló A, **Guan D**, Quintanilla R, Tonda R & Amills M. Variability in porcine microRNA genes and its association with mRNA expression and lipid phenotypes. *Genetics Selection Evolution*. 2021. 53:43. <https://doi.org/10.1186/s12711-021-00632-3>
- Luigi-Sierra MG, Landi V, **Guan D**, Delgado J, Castello A, Cabrera B, Mármol-Sánchez E, Fernández-Álvarez J, Gomez-Carpio M, Martínez A, Such X, Jordana J & Amills M. A genome-wide association analysis for body, udder and leg conformation traits recorded in Murciano-Granadina goats. *Journal of Dairy Science*. 2020. <https://doi.org/10.3168/jds.2020-18461>.
- Rovell G, Luigi-Sierra MG, **Guan D**, Sbarra F, Quaglia A, Sarti FM, Amills M & Lasagna E.

- Evolution of inbreeding: a gaze into five Italian beef cattle breeds history. *PeerJ*. 2021. 9:e12049 <https://doi.org/10.7717/peerj.12049>.
- Rovelli G, Luigi-Sierra MG, Ceccobelli S, **Guan D**, Perini F, Sbarra F, Quaglia A; Sarti FM, Amills M, Lasagna E. A genome wide association study for beef production traits in five Italian cattle breeds. *Scientific reports*. 2021 (submitted).
- Liu B, **Guan D**, Zhai X, Yang S, Xue S, Chen S, Huang J, Ren H & Liu X. Selection footprints reflect genomic changes associated with breeding efforts in 56 cucumber inbred lines. *Horticulture Research*. 2019; 6: 127.
- Zhao Y, Xu H, Zhao Z, Na R, Mao J, **Guan D** & Xie C. Polymorphisms of *osteopontin* gene and their association with placental efficiency and prolificacy in goats. *Journal of Applied Animal Research*. 2015; 43: 272-78.

#### **ABSTRACTS IN CONFERENCE:**

- **Oral presentation:**
  - “The Chicken Genotype-Tissue Expression (ChickenGTEx): A Comprehensive Atlas of Genetic Regulatory Variants in Chicken Transcriptome”, January 8-12, 2022, San Diego, CA, USA., International Plant & Animal Genome XXIX
  - “Annotation of full-length transcripts including alternative splicing from 19 chicken tissues using Oxford Nanopore long-read sequencing” July 26-30, 2021. 38<sup>th</sup> International Society for Animal Genetics Conference.
  
- **Poster presentation:**
  - “The variability of the *MC1R* gene determines the pigmentation patterns of Murciano-Granadina goats”. June 3-5, 2020. Madrid, Spain. XX National Meeting of Animal Genetic Improvement.
  - “A genome-wide association analysis for dairy traits in Murciano-Granadina goats”. July 7-12, 2019. Lleida, Spain. 37<sup>th</sup> International Society for Animal Genetics Conference.
  - “Mapping copy number variation in Murciano-Granadina goats”. July 7-12, 2019. Lleida, Spain. 37<sup>th</sup> International Society for Animal Genetics Conference.
  - “Transcriptional profile of mammary gland tissue during lactation in Murciano-Granadina goats”. May 7-8, 2019. Zaragoza, Spain. XVIII Conference on Animal Production.
  - “Characterizing the diversity of caprine casein genes through the analysis of genomic data

from five geographically and genetically different populations”. April 9-11, 2018. Barcelona, Spain. International Society for Computational Biology (ISCB), the Next Generation Sequencing Conference 2018 (NGS 2018).

“Screening candidate genes of importantly economic traits in goats by whole-genome sequencing”. November 14-16, 2015. Jiangxi, China. The 18<sup>th</sup> National Conference on Animal Genetics and Breeding.