

CONTACT INFORMATION	Research Center in Biodiversity and Genetic Resources <b>(CIBIO-InBIO)</b> , University of Porto Campus de Vairão Rua Padre Armando Quintas, 7 4485-661 Vairão, PORTUGAL	<i>Phone:</i> +351 252 660 411 <i>Mobile:</i> +351 914 030 960 <i>E-mail:</i> albanobp@fc.up.pt ORCID: 0000-0002-1607-7382
RESEARCH INTERESTS	<b>Population genomics, conservation and evolution of domesticated species, their wild ancestors, and parasites.</b> The correct knowledge on the amount of genomic variation, its geographic partitioning and, the genome architecture of a species is one of the fundamental premises to study the genetic bases of the phenotypic variance. Yet, a large number of questions related with the impact of domestication in the genome architecture from livestock species, still are unanswered. As livestock species spread around the globe, they encountered a variety of novel selective pressures (e.g., new environments, climates, diets, parasites), which likely resulted in some genetic adaptation to local environments. What was the role of the evolutionary processes (e.g., mutation, demography, and selection) in the adaptation of livestock species to such a broad range of extreme environments, from the cold Siberia to the hot and humid west Africa rain forests? Which functional variants that have been subjected to different selection pressures in different populations (e.g., local selection)? How much of the genetic variation is shaped by breeding, environmental pressure and/or novel emerging diseases? How much of the molecular adaptation of local breeds was influenced by its parasites and microbioma?	
CURRENT APPOINTMENT	<b>Assistant professor</b> Department of Geosciences, Environment and Spatial Planning (DGAOT) Faculty of Sciences, University of Porto	<b>February 2019 to present</b>
EDUCATION	<b>Universidade do Porto</b> , Porto, Portugal  Doutoramento (Ph.D.), Agrarian Sciences, June 2005  <b>Thesis Title:</b> <i>Origins, Diffusion and Evolutionary History of Livestock and Pastoralism around the Mediterranean Basin: Insights from molecular markers</i>  <b>Advisers:</b> Nuno Ferrand, Gordon Luikart, Georg Erhardt  <b>Area of Study:</b> Population Genetics  <b>Universidade dos Açores</b> , Angra do Heroísmo, Portugal  Licenciatura Eng. Zootécnica (5 years undergrad degree), Animal Sciences and Husbandry, July 1997	
TEACHING EXPERIENCE	<b>Faculty of Sciences, University of Porto</b> , Portugal  <i>Assistant Professor, tenure track</i>  <i>Invited Assistant Professor</i>	<b>Feb 2019 - current</b>  <b>Spring Semester 2006 and May 2008 to Jan 2019</b>  <b>School of Biotechnology, Portuguese Catholic University</b> , Portugal  <i>Assistant Professor</i> BSc. in Bioinformatics <i>Course:</i> Population and Quantitative Genetics and Phylogenetics and Evolution courses  <b>Conservation Genetics Data Analysis Course</b> , International Course organized by The CIBIO - University of Porto and The University of Montana, USA

**Instructor**

5<sup>th</sup> Conservation Genetics Data Analysis Course, USA, 27 Sep-1 Oct, 2011.

4<sup>th</sup> Conservation Genetics Data Analysis Course, USA, 31 Aug-4 Sep, 2009.

3<sup>rd</sup> Conservation Genetics Data Analysis Course, Portugal, 9-14 Sep, 2008.

2<sup>nd</sup> Conservation Genetics Data Analysis Course, USA, 11-16 Sep, 2007.

1<sup>st</sup> Conservation Genetics Data Analysis Course, Portugal, 30 Aug-2 Sep, 2006.

PROFESSIONAL EXPERIENCE **CIBIO, University of Porto**, Portugal

*Investigador Principal - Group Leader*

**December 2013 to Present**

**Research Group:** *AgriGenomics - Livestock Genomics and Conservation*

**Funding:** IF - Investigator FCT

**Research topic:** *Livestock Genomics*

- Conservation Genomics of Livestock Species and Their Wild Relatives
- Population Genetics of Pathogen species
- Genome minning
- Genetic Adaptation to Extreme Environments

*Investigador Auxiliar and Group Leader*

**July 2009 to 2013**

**Research Group:** *Genes, population Genomics and Traits*

**Funding:** *Ciência 2008*

**Research topic:** *Origin, Domestication of Livestock Species*

**CIBIO-University of Porto**, Campus Agrário de Vairão, Portugal

*Postdoctoral Researcher*

**July 2005 to June 2009**

**Research topic:** *Testing for Adaptative Molecular Variation in Wild and Domestic Ungulates*

**Funding:** Portuguese Science Foundation (FCT)

**University of Porto, Graduate Programme in Areas of Basic and Applied Biology (GABBA)**

*Doctoral student*

**September 2000 to June 2005**

**Research Topic:** Population Genetics and Phylogeography of domestic cattle and donkeys.

**Institutions involved:** Laboratoire d'Ecologie Alpine, France; Institute of Animal Breeding and Genetics, Justus Liebig University Giessen, Germany; CIBIO-UP, Portugal;

**Funding:** Portuguese Science Foundation (FCT)

**Centro de Estudos em Ciência Animal, University of Porto**, Portugal

*Research Assistant*

**September 1998 to August 2000**

**Research Topic:** Microsatellite genotyping analysis for the characterization of five local portuguese cattle breeds.

**Funding:** Portuguese Science Foundation (FCT), PRAXIS XXI Research Project

**Project Title:** Genetic diversity of autochthonous cattle breeds. Genetic diversity inferred from milk protein genetic polymorphisms and a set of microsatellites

*Research Assistant*

**November 1997 to August 1998**

**Research Topic:** Microsatellite genotyping analysis for the characterization of five local portuguese cattle breeds.

**Funding:** European commission FAIR programme

**Project Title:** FAIR-CT95-0702: Characterisation and assessment of genetic aptitudes of European local beef cattle breeds for producing quality meat

**University of Azores, Portugal and University of Natural Resources and Life Sciences, Austria.**

**Research topic:** Genetic characterization of the Azorean autochthonous cattle breed Ramo Grande

**Funding:** The ERASMUS programme

RESEARCH  
SUPERVISION

*Postdoctoral fellows*

**Dr. Lucía Pérez-Pardal.** CIBIO - University of Porto. *Research Project:* Detecting Functional Genetic Variations Using “Exome sequencing” and SNPchip data.

**Dr. Eduardo Conde-Sousa.** CIBIO - University of Porto. *Research Project:* Developing new software tools for analysis of “Exome sequencing” data. 2014 - 2015.

**Dr. Shanyuan Chen.** CIBIO - University of Porto. *Research Project:* Detecting Functional Genetic Variations Using “Exomics” Approach: Exon Massively Parallel Sequencing of Cattle and Pigs. FCT postdoctoral fellowship 2008-2014.

**Dr. Nádia Pinto.** CIBIO - University of Porto. *Research Project:* Bovine exome (Bos spp.). 2013-2014.

**Dr. Shamsul A. Bhuiyan.** CIBIO - University of Porto. *Research Project:* Genome-wide Diversity and Molecular Adaptation of South and Southeast Asian Domestic Bovine Species and Their Wild Relatives (Bos spp.). FCT postdoctoral fellowship 2011-2012.

STUDENT  
ADVISING

*Ph.D. Students - Supervision as Primer Advisor*

**Sonia Rosenbom.** Doctoral Programme in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Conservation genetics and evolution of the African Wild ass *Equus africanus*. Concluded 2015.

**Agusto Luzuriaga.** Doctoral Programme in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* The origin of the South American native chicken populations and detection of molecular adaptation. Concluded 2018.

**Nasser Al-Araimi.** Doctoral Programme in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Genetic diversity, conservation and origins of the local Omani livestock species. Concluded in 2019.

**Vânia Costa.** Doctoral Programme in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Genomic diversity of zebu cattle *Bos indicus*. Expected to be defended in 2019.

**Hailton Spencer.** Doctoral Programme in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Genomic Characterization of the local Cape Verdean Cattle and Goat Populations. Expected to be defended in 2020.

*Supervision as Co-Advisor*

**Keffena Effa.** Haramaya University, Ethiopia. *Thesis Topic:* Characterization and genetic conservation of the Ethiopian domestic equids. Defended in May 2012.

**Yosef Kebede.** Haramaya University, Ethiopia. *Thesis Topic:* Characterization and genetic conservation of the Ethiopian camel populations. Concluded in March 2016.

*M.Sc. Students*

**Ricardo Castilho.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Population structure of *Amanita ponderosa* in Portugal using RAD sequencing technique. 2012-2013.

**Rita Monteiro.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Conservation genetics of the Tibetan wild ass *Equus kiang*. 2012-2013.

- Fernando Almeida.** Integrated Master in Veterinary Medicine, ICBAS, University of Porto. *Thesis Topic:* Genome-Wide Association Study for fat content in milk. 2013.
- Leili Khalatbari.** Master in Animal Ecology, Evolutionary Biology Center, Uppsala University, Sweden. *Thesis Topic:* Effect of the habitat fragmentation on the Grevy's zebra population genetic structure. 2011-2012.
- Hosein Youssef.** Master in Animal Ecology, Evolutionary Biology Center, Uppsala University, Sweden. *Thesis Topic:* Conservation genetics of the Asiatic wild ass *Equus hemionus* in Iran. 2011-2012.
- Rui Gomes.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Searching for genetic signatures in disease related genes. 2009-2011.
- Joana Rocha.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Detecting multi-paternity in domestic pigs. 2010-2011.
- Rui Oliveira.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* World-wide maternal phylogeography of the domestic species. 2010-2011.
- Vânia Costa.** Master in Biodiversity, Conservation and Evolution, Faculty of Sciences, University of Porto. *Thesis Topic:* Old World Cattle Phylogeography, 2009-2010.

*BSc. Students*

- Patricia Costa.** BSc. in Biology, Faculty of Sciences, University of Porto. *Topic:* Milk protein genes diversity in Southeast Asia Buffalo (*Bubalus bubalis*). 2013.
- Joana Rocha.** BSc. in Biology, Faculty of Sciences, University of Porto. *Topic:* Screening of Mendelian inherited mutations causative of diseases in Horse breeds. 2009.
- Tiago Romão,** BSc. in Bioinformatics, Portuguese Catholic University. *Topic:* Development of Database and interfaces for laboratory management. 2009.
- Rita Carvalho,** BSc. in Bioinformatics, Portuguese Catholic University. *Topic:* Development of a graphical Interface for the population genetics software Fdist2. 2008.

EXTERNAL  
EXAMINER -  
DOCTORAL  
DEGREE

- Thibault Gayet,** *Doctor in Ecology,* University Claude Bernard - Lyon 1, France 2018.
- Ana Cristina Ferreira,** *Doctor in Microbiology,* University of Lisboa, 2017.
- Pauline Charruau,** *Doctor in Population and Conservation genetics,* University of Veterinary Medicine, Vienna, Austria, 2012.
- Lucía Pérez-Pardal,** *Doctor in Genetics,* University of Santiago de Compostela, Spain, 2010.
- Catarina Ginja,** *Doctor in Animal Sciences and Husbandry,* University of Lisbon, 2009.
- João C. Mateus,** *Doctor in Animal Sciences and Husbandry,* University of Trás-os-Montes e Alto Douro, 2009.
- Joana Seco-Morais,** *Doctor in Biology,* University of Lisbon, 2007.

EXTERNAL  
EXAMINER -  
MASTER  
DEGREE

- Zainab S. Al-Hashami,** *Master in Health Sciences,* College of Medicine and Health Sciences, Sultan Qaboos University, Sultanate of Oman, 2010.
- Erica Pereira,** *Master in Agronomy,* University of Porto, 2009.
- Sandra Afonso,** *Master in Evolutionary Biology and Development,* Faculty of Sciences, University of Lisbon, 2008.

## PROFESSIONAL Editorial Boards

### SERVICE

*Associate Editor: BMC Veterinary Research*, 2014-present.

*Review Editorial Board: Frontiers in Genetics: Livestock Genomics*, 2010-present.

*Associate Editor: Molecular Ecology Resources*, 2005-2012.

## Workshop Organization

Organizer of the **Conservation Genetics Data Analysis Course**, an international intensive workshop organized every other year between CIBIO - University of Porto and the University of Montana, USA. 2006-present.

## Committees

Member of the scientific committee of the **2<sup>nd</sup> International Wild Equid Conference**, Prague, Czeck Republic, 1-5 Set. 2019.

Charman of the scientific committee of the **5<sup>th</sup> International MGIBR Workshop, Fascinating parts of the equids sector: critical characteristics, points and potentialities**, Tlemcen, Algeria, 27-29 Apr. 2019.

Member of the scientific committee of the **Regional Conference for Animal Genetic Resources Conservation**, Muscat, Oman, 23-24 Feb. 2016.

Member of scientific committee of the **O mundo animal na romanização da Península Ibérica [Meeting]**, Lisboa, Portugal, 26-27 Jun. 2015.

## PEER REVIEW *Had hoc journal reviewer*

### ACTIVITIES

Animal Genetics, BMC Genetics, BMC Evolutionary Biology, Conservation Genetics, Gene, Genetics, Heredity, Human Genetics, IUCN/SSC Invasive Species Specialist Group, Journal of Animal Breeding and Genetics, Journal of Animal Sciences, Journal of Archaeological Science, Journal of Dairy Science, Journal of Mammology, Letters in Biology, Molecular Ecology, Molecular Phylogenetics and Evolution, Nature, Nature Communications, PLoS One, Proceedings of the Royal Society of London B, Science, Trends in Genetics.

### *Had hoc grant reviewer*

Austrian Science Foundation  
Hungarian Science Foundation  
Czech Science Foundation,  
South Africa Science Foundation  
Portuguese Science Foundation (FCT)  
National Geographic Society, USA  
European Research Council (ERC)

### *Evaluator*

Member of the evaluation panel for the Horizon 2020, European Commission.

Member of the evaluation panel for Animal and Veterinary Sciences Panel for the individual advancing fellowship and grant applications (Ph D. and Postdoctoral), Portuguese Science Foundation, 2011-2012.

Member of the evaluation panel for the program **Proyectos Cero on Threatened Species** from the Spanish CSIC General Foundation, 2011.

## EXPERTIZE *Institution External Advisor*

Member of the Caprinae Species Specialist Group, International Union for Conservation of Nature (IUCN), 2005-2016.

Member of the Equidae Species Specialist Group, International Union for Conservation of Nature (IUCN), 2007-present.

PROFESSIONAL American Genetics Association, since 2002.

MEMBERSHIPS International Society for Animal Genetics, since 2000.

European Federation of Animal Science, since 2014.

Society for Molecular Biology and Evolution, since 2008.

86. Bălteanu V.A., Cardoso T. F., Amills M., Egerszegi I., Anton I., **Beja-Pereira A.**, Zsolnai A. (2019) The footprint of recent and strong demographic decline in the genomes of Mangalitza pigs. *Animal*, **in press**: doi:10.1017/S175173111900582
85. Al-Araimi N.A., Al-Atiyat R.M., Luzuriaga-Neira A., Mahgoub Gaafar O., Kadim I.T., Al-Marzooqi W., Babiker H.A., Al-Kindi M.A., Al-Ansari A.S., Al-Lawati A.H., **Beja-Pereira A.** (2019) Genetic Structure of Omani Goats Reveals Admixture among Populations from Geographically Proximal Sites. *Small Ruminant Research*, **178**:1-6.
84. Luzuriaga-Neira A., Pérez-Pardal L., O'Rourke S.M., Villacís-Rivas G., Cueva-Castillo F., Escudero-Sánchez G., Ulloa-Nuñez A., Rubilar-Quezada M., Miller M.R., **Beja-Pereira A.** (2019) Genome scan for selection in South American chickens reveals a region under selection associated with aggressiveness. *Livestock Science*, **225**: 135-139.
83. Perez-Pardal L., Sanchez-Gracia A., Alvarez I., Traore A., Ferraz J.B.S., Fernandez I., Costa V., Chen S., Tapio M., Cantet R.J.C., Patel A., Meadow R.H., Marshall F.B., **Beja-Pereira A.**, Goyache F. (2018) Legacies of domestication, trade and herder mobility shape extant male zebu cattle diversity in South Asia and Africa. *Scientific Reports*, **8**: 18027
82. Perez-Pardal L., Chen S., Costa V., Liu X., Carvalheira J., **Beja-Pereira A.** (2018) Genomic differentiation between swamp and river buffalo using a cattle high-density single nucleotide polymorphisms panel. *Animal*, **12**: 464-471.
81. Salem M.M.I., Thompson G., Chen S., **Beja-Pereira A.**, Carvalheira J. (2018) Linkage disequilibrium and haplotype block structure in Portuguese Holstein cattle. *Czech Journal of Animal Science*, **63**: 61-69
80. Al-Araimi N.A., Mahgoub O., Costa V., Luzuriaga-Neira A., Al-Atiyat R.M., **Beja-Pereira A.** (2018) Genetic Origin of Goat Populations in Oman Revealed by Mitochondrial DNA Analysis. *PLoS One*, **12**(12): e0190235.
79. Al-Araimi N.A., Al-Atiyat R.M., Gaafar O.M., Vasconcelos R., Luzuriaga-Neira A., Eisae M.O., Amir N., Benaissa M.H., Alfaris A.A., Aljumaah R.S., Elnakhla S.M., Salem M.M.I., Ishag I.A., El-Khassim M., **Beja-Pereira A.** (2017) Maternal genetic diversity and phylogeography of native Arabian goats. *Livestock Science*, **206**:88-94.
78. Pérez-González J., Costa V., Santos P., Carranza J., Zsolnai A., Fernández-Llario P., Monteiro N.M., Anton I., **Beja-Pereira A.** (2017) Heterozygosity decrease in wild boar mating system. A case of outbreeding avoidance? *Journal of Zoology*, **302**: 40-48.
77. O'Brien M.P., **Beja-Pereira A.**, Anderson N., Ceballos R.M., Edwards W.H., Harris B., Wallen R.L., Costa V., Luikart G. (2017) Brucellosis transmission between wildlife and livestock in the Greater Yellowstone Ecosystem: inferences from DNA genotyping. *Journal of Wildlife Diseases*, **53**: 339-343.
76. Luzuriaga-Neira A., Villacís-Rivas G., Cueva-Castillo F., Escudero-Sánchez G., Ulloa-Nuñez A., Rubilar-Quezada M., Monteiro R., Miller M. R., **Beja-Pereira A.** (2017) On the origins and genetic diversity of South American chickens: one step closer. *Animal Genetics*, **48**: 353–357.
75. Lenstra J.A., Tigchelaar J., Biebach I., Econogene Consortium, Hallsson J.H., Kantanen J., Nielsen V.H., Pompanon F., Naderi S., Rezaei H.-R., Sæther N., Ertugrul O., Grossen C., Camenisch G., Vos-Loohuis M., van Straten M., de Poel E.A., Windig J., Oldenbroek K., Abo-Shehada M., Marsan P.A., Tarrayrah J.A., Angiolillo A., Baret P., Baumung R., **Beja-Pereira A.**, Bertaglia M., Bordonaro S., Brandt H., Bruford M., Caloz R., Canali G., Canon J., Cappuccio I., Carta A., Cicogna M., Crepaldi P., Dalamitra S., Dobi P., Dunner S., D'Urso G., El Barody M.A.A., England P., Erhardt, G., Ertuğrul O., Glowatzki M.-L., Ibeagha-Awemu E., Strzelec E., Fadlaoui A., Fornarelli F., Garcia D., Georgoudis A., Giovenzana S., Gutscher K., Hewitt G., Hoda A., Istvan A., Jones S., Joost S., Juma G., Karetsou K., Kliambas G., Koban E., Krugmann D., Kutita O., Lazlo F., Ligda C., Lipsky S., Luikart G., Lühken G., Marilli M., Marletta D., Milanese E., Negrini R., Nijman I.J., Niznikowski R., Obexer-Ruff G., Papachristoforou C., Pariset L., Peter C., Perez T., Pietrolà E., Pilla F., Popielarczyk D., Prinzenberg M.-E., Roosen J., Scarpa R., Sechi T.,

- Taberlet P., Taylor M., Togan I., Trommetter M., Valentini A., Van Cann L.M., Vlaic A., Wiskin L., Zundel S. (2017) Microsatellite diversity of the Nordic type of goats in relation to breed conservation: how relevant is pure ancestry? *Journal of Animal Breeding and Genetics*, **134**: 78-84.
74. Costa V., Rosenbom R., Monteiro R., O'Rourke S.M., **Beja-Pereira A.** (2017) Improving DNA quality extracted from fecal samples – a method to improve DNA yield. *European Journal of Wildlife Research*, **63**: 1-7.
  73. Perez-Pardal L. , Saglam I. K., Costa V., Chen S., Miller M. R., **Beja-Pereira A.** (2016) Comparison of high-density SNPchip versus RAD sequencing in cattle and related species. *Journal of Animal Science*, **94**: 23.
  72. Al-Hamidhi S., Weir W., Kinnaird J., Tagledeen M., **Beja-Pereira A.**, Morrison I., Thompson J., Tait A., Shiels B., Babiker H. A. (2016) *Theileria lestoquardi* displays reduced genetic diversity relative to sympatric *Theileria annulata* in Oman. *Infection, Genetics and Evolution*, **43**: 297-306.
  71. Menéndez J., Goyache F., **Beja-Pereira A.**, Fernández I, Menéndez-Arias N. A., Godinho R., Álvarez I. (2016) Genetic characterization of the endangered Gochu Asturcelta pig breed using microsatellite and mitochondrial markers: insights for the composition of the Iberian native pig stock. *Livestock Science*, **187**: 162-167.
  70. Kebede F., Rosenbom S., Khalatbari L, Moehlman P.D., **Beja-Pereira A.**, Bekele A. (2016) Genetic diversity of the Ethiopian Grevy's zebra populations that includes a unique population of the Alledoghi Plain. *Mitochondrial DNA*, **27**: 397-400.
  69. Al-Hamidhi S., Tageldin M.H., Weir W., Al-Fahdi A., Johnson E., Bobade P., Alqamashoui B., **Beja-Pereira A.**, Thompson J., Kinnaird J., Shiels B., Tait A., Babiker H. (2015) Genetic diversity and population structure of *Theileria annulata* in Oman. *PLoS One*, **10**: e0139581.
  68. Colominas L., Edwards C., **Beja-Pereira A.**, Vigne J-D., Silva R.M., Castanyer P., Tremoleda J., Saña-Seguí M., Pérez-Ripoll M., Goyache F., Howe C.J., Barker G., Bower M.A. (2015) Detecting the T1 cattle haplogroup in the Iberian Peninsula from Neolithic to Medieval times: new clues to continuous cattle migration through time. *Journal of Archaeological Science*. **59**: 110-117.
  67. Bakiet A.M., Abel-Muhsin A-M., Elzaki S-E.G., Al-Hashami Z.S., Albarwani H.S., AlQamashoui B., Al-Hamidhi S., Idris M.A., Elagib A., **Beja-Pereira A.**, Babiker H.A. (2015) *Plasmodium falciparum* population structure in Sudan post artemisinin-based combination therapy. *Acta Tropica*, **148** :97-114.
  66. Rosenbom S., Costa V., Chen S., Khalatbari L., Yusefi G. H., Abdukadir A., Yangzom C., Kebede F., Teclai R., Yohannes H. Hagos F., Moehlman P., **Beja-Pereira A.** (2015). Reassessing the evolutionary history of ass-like equids: insights from variation in contemporary extant populations. *Molecular Phylogenetics and Evolution*, **85** :88-96.
  65. Rosenbom S., Costa V., Al-Araimi N., Kefena E., Abdel-Moneim A. S., Abdalla M. A., Bakhiet A., **Beja-Pereira A.** (2015) Genetic diversity of donkey populations from the putative centers of domestication. *Animal Genetics*, **46** :30-36
  64. Pérez-González J., Costa V., Santos P., Slate J., Carranza J., Fernández-Llario P., Zsolnai A., Monteiro N.M., Anton I., Buzgó J., Varga G., **Beja-Pereira A.** (2014) Males and females contribute unequally to offspring genetic diversity in the polygynandrous mating system of wild boar. *PLoS One*, **9**(12): e115394.
  63. Cosart T., **Beja-Pereira A.**, Luikart G. (2014) ExonSampler: A Computer Program for Genome-Wide and Candidate Gene Exon Sampling for Targeted Next-Generation Sequencing. *Molecular Ecology Resources*, **14**: 1296-1301.
  62. Al-Hamidhi S., Mahdy M.A.K., Idris M.A., Dajem S.M.B., Al-Sheikh A.A.H., Al-Qahtani A., Al-Hashami Z., Al-Farsi H., Al-Mekhlafi A.M., Saif-Ali R., **Beja-Pereira A.**, Babiker H.A. (2014) The prospect of malaria elimination in the Arabian Peninsula: A population genetic approach. *Infection, Genetics and Evolution*, **27**: 25-31.

61. Kefena E., Dessie T., Tegegne A., **Beja-Pereira A.**, Yusuf Kurtu M., Rosenbom S., Han J.L. (2014) Genetic diversity and matrilineal genetic signature of native Ethiopian donkeys (*Equus asinus*) inferred from mitochondrial DNA sequence polymorphism. *Livestock Science*, **167**: 73-79.
60. Hand B.K., Chen S., Anderson N., **Beja-Pereira A.**, Cross P., Ebinger M., Edwards H., Garrett B., Kardos M., Kauffman M., Landguth E.L., Middleton A., Scurlock B., White P.J., Zager P., Schwartz M., Luikart G. (2014) Sex-biased gene flow among elk in the Greater Yellowstone Ecosystem. *Journal of Fish and Wildlife Management*, **5**: 124-132.
59. Lenstra J.A., Ajmone-Marsan P., **Beja-Pereira A.**, Bollongino R., Bradley D.G., Colli L., DeGaetano A., Edwards S.J., Feliuss M., Ferretti L., Ginja C., Hristov P., Kantanen J., Lirón J.P., Magee D.A., Negrini R., Radoslavov G.A. (2014) Meta-Analysis of Mitochondrial DNA Reveals Several Population Bottlenecks during Worldwide Migrations of Cattle. *Diversity*, **6**: 178-187.
58. Al-Mahruqi S.H., Zadjali F., **Beja-Pereira A.**, Koh C.Y., Balkhair A., Al-Jabri A.A. (2014) Genetic diversity and prevalence of CCR2-CCR5 gene polymorphisms in the Omani population. *Genetics and Molecular Biology*, **37**: 7-14.
57. Perez-Pardal L., Grizelj J., Traore A., Cubric-Curik V., Arsenos G., Dovenski T., Markovic B., Fernandez I., Cuervo M., Alvarez I., **Beja-Pereira A.**, Curik I., Goyache F. (2014) Lack of mitochondrial DNA structure in Balkan donkey is consistent with a quick spread of the species after domestication. *Animal Genetics*, **45**: 144-147.
56. Chen S., Gomes R., Costa V., Santos P., Charneca R., Zhang Y-P., Liu X-H., Wang S-Q., Bento P., Nunes J.L., Buzgo J., Varga G., Anton I., Zsolnai A., **Beja-Pereira A.** (2013) How immunogenetically different are domestic pigs from wild boars: A perspective from single nucleotide polymorphisms of 19 immunity-related candidate genes. *Immunogenetics*, **65**: 737-748.
55. Al-Hamidhi S., Mahdy M.A.K., Al-Hashami Z., Al-Farsi H., Al-Mekhlafi A.M., Idris M.A., **Beja-Pereira A.**, Babiker H.M. (2013) Genetic diversity of *Plasmodium falciparum* and distribution of drug resistance haplotypes in Yemen. *Malaria Journal*, **12**: 244.
54. Mahgoub O., Babiker H., Kadim I.T., Al-Kindi M., Hassan S., Al-Marzooqi W., Eltahir Y., Al-Abri M.A., Al-Khayat A., Al-Sinani K.R., Hilal H., Costa V., Chen S., **Beja-Pereira A.** (2013) Disclosing the origin and diversity of Omani cattle. *Animal Genetics*, **44**: 336-339.
53. Kimura B., Marshall F., **Beja-Pereira A.**, Mulligan C. (2013) Donkey Domestication. *African Archaeological Review*, **30**: 83-95.
52. Miao Y-W., Peng M-S., Wu G-S., Ouyang Y-N., Yang Z-Y., Yu N., Liang J-P., Pianchou G., **Beja-Pereira A.**, Mitra B., Palanichamy M.J., Baig M., Chaudhuri T.K., Shen Y-Y., Kong Q-P., Murphy R W., Yao Y-G., Zhang Y-P. (2013) Chicken domestication: an updated perspective based on mitochondrial genomes. *Heredity*, **110**: 277-282.
51. Bhuiyan M.S.A. , Chen S., Faruque S., Bhuiyan A.K.F.H., **Beja-Pereira A.** (2013) Genetic diversity and maternal origin of Bangladeshi chicken. *Molecular Biology Reports*, **40**: 4123-4128.
50. Costa V., Pérez-González J., Zsolnai A., Anton I., Buzgó J., Varga G., Santos P., Monteiro N., **Beja-Pereira A.** (2012) Usefulness of 14 microsatellite markers for parentage analysis in European wild boar. *BMC Research Notes*, **5**: 479.
49. Chen S., Gomes R., Costa V., Rocha I., Zsolnai A., Anton I., Charneca R., Santos P., Nunes J.L., Buzgó J., Varga G., Zhang Y-P., **Beja-Pereira A.** (2012) Novel coding genetic variants of the GBP1 gene in wild and domestic pigs (*Sus scrofa*). *Livestock Science*, **146**: 1-4.
48. Ferreira A.C., Almendra C., Cardoso R., Silva Pereira M., **Beja-Pereira A.**, Luikart G., Corrêa de Sá M. I. (2012) Development and evaluation of a selective medium for *Brucella suis*. *Research in Veterinary Science*, **93**: 565.
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3. **Beja-Pereira A.**, Erhardt G., Matos C., Gama L., Ferrand N. (2002) Evidence for a geographical cline of casein haplotypes in Portuguese cattle breeds. *Animal Genetics*, **33**: 295-300.
2. **Beja-Pereira A.**, Bento P., Ferrand N., Brenig B. (2001). Genetic Polymorphism of the 17th Exon at the Porcine RYR1 locus: a new variant in a local Portuguese pig breed demonstrated by PCR-SSCP analysis. *Journal of Animal Breeding and Genetics*, **118**: 271-274.

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**\*\*As member of the Genome 10K Community Scientists**

**\* As member of the Econogene consortium**

### Books and Book Chapters

Geigl E-M, Bar-David S., **Beja-Pereira A.**, Cothran E.G., Giulotto E., Hrabar H., Oyunsuren T., Pruvost M., (2016) Genetics and Paleogenetics of Equids. In: Ransom, J and Kaczensky, P (eds.) Wild Equids: Ecology, Conservation, and Management. Pp. 87-95. Johns Hopkins, Baltimore.

Rosenbom S. and **Beja-Pereira A.** (2016) Life on the edge: What we know—and don't know—about the genetics of the African wild ass (*Equus africanus*). In: Ransom J and Kaczensky P. (eds.) Wild Equids: Ecology, Conservation, and Management. Pp. 87-95. Johns Hopkins, Baltimore.

Vilà C., Leonard J.A., **Beja-Pereira A.** (2006) Equid domestication. In: Zeder, MA, Decker-Walters, D, Bradley, D and Smith, BD (eds.) Documenting Domestication: New Genetic and Archaeological Paradigms. Pp. 344–356. California University Press.

**Beja-Pereira A.** and Ferrand N. (2005) Genética, Biotecnologia e Agricultura. Sociedade Portuguesa de Inovação, Lisboa.

**Beja-Pereira A.** and Ferrand N. (2001) Origem e história da raça Barrosã. In: Raça Barrosã. AMIBA, Braga.

### Conference Publications

Perez-Pardal L., Saglam I. K., Costa V., Chen S., Miller M. R., **Beja-Pereira A.** (2016) Comparison of high-density SNPchip versus RAD sequencing in cattle and related species. **35th Conference of International Society of Animal Genetics**. Salt Lake City, USA, July.

Castilho R.A., Saglam I.K., O'Rourke S. M., Miller M. R., **Beja-Pereira A.** (2015) Next-generation RAD sequencing: A tool for evaluation the phylogeographic patterns of *Amanita ponderosa* (Malencon R. Heim) in Iberian Peninsula. **Annual Meeting of the International Society for Molecular Biology and Evolution**. Vienna, Austria, July.

Al-Hamidhi S., Mahdy M.A.K., Al-Hashami Z., Al-Farsi H., Al-mekhlafi A.M., Idris M.A., **Beja-Pereira A.**, Babiker H.A. (2015) Genetic diversity of Plasmodium falciparum and distribution of drug resistance haplotypes in Yemen. **EMBL Conference, BioMalPar XI: Biology and Pathology of the Malaria Parasite**. Heidelberg, Germany, May

Al-Hamidhi S., Tageldin M.H., Weir W., Al-Fahdi A., Johnson E., Bobade P., Idris M., Alqamashoui B., **Beja-Pereira A.**, Kinnaird J., Shiels B., Tait A., Babiker H.M. (2015) Population genetic analysis of *Theileria annulata* in Oman. Apicomplexa in farm animals 3rd international meeting, Edinburgh, UK, June.

Pinto N., Conde-Sousa E., Chen S., Pérez-Pardal L., Goyache F., **Beja-Pereira A.** (2014) Computational tools to exploit cattle exomes. **34th Conference of International Society of Animal Genetics**. Xi'an, P.R. China, July.

Salem M.M.I., Thompson G., Chen S., **Beja-Pereira A.**, Carvalheira J. (2014) Genome-Wide Association Study for Milk-Fat Yield in Portuguese Holstein Cattle. **Proceedings of the 10th World Congress on Genetics Applied to Livestock Production**. Vancouver, Canada, August.

Carvalheira J., Salem M.M.I., Thompson G., Chen S., **Beja-Pereira A.** (2014) Genome-Wide Association Study for Milk and Protein Yields in Portuguese Holstein Cattle. **Proceedings of the 10th World Congress on Genetics Applied to Livestock Production**. Vancouver, Canada, August.

- Al-Hamidhi S., Mahdy M.A., Idris M.A., Bin Dajem S.M., Al-Sheikh A.A., Al-Qahtani A., Al-Hashami Z., Al-Farsi H., Al-Mekhlafi A.M., Saif-Ali R., **Beja-Pereira A.**, Babiker H.A. (2013) Population genetics of plasmodium falciparum in the Arabian Peninsula and prospect of malaria elimination. **6th Pan-African Malaria Conference**, Durban, South Africa, October.
- Costa V., Rosenbom S., **Beja-Pereira A.** (2012) A new approach to improve DNA extraction from feces of wild equids. **International Wild Equid Conference**. Vienna, Austria, September.
- Rosenbom S., Kebede F., Teclai R., Yohannes H., Hagos F., Moehlman P., **Beja-Pereira A.** (2012) Insights into genetic diversity, population structure and demographic history of the African wild ass (*Equus africanus*) **International Wild Equid Conference**. Vienna, Austria, September.
- Rosenbom S., Costa V., Chen S., Abdukadir A., **Beja-Pereira A.** (2011) Conservation genetics of the Asiatic half ass (*Equus hemionus*): accessing genetic diversity and geographic structure in the Northern Chinese population. **25<sup>th</sup> International Congress in Conservation Biology**. Auckland, New Zealand, December.
- Costa V., Chen S., Mitra S., Ostrowski S., **Beja-Pereira A.** (2010) Domestication centers, migration routes and admixture patterns of domestic cattle - is Central Asia a genetic melting pot?. **32<sup>nd</sup> Conference of the International Society for Animal Genetics**. Edinburgh, UK, July.
- Rosenbom S., Costa V., Steck B., Moehlman P., **Beja-Pereira A.** (2010). Genetic characterization and relationship between two local donkey breeds (*Equus asinus*) and an African wild ass population (*Equus africanus*). **32<sup>nd</sup> Conference of the International Society for Animal Genetics**. Edinburgh, UK, July.
- Quintão Gomes R., Costa V., Chen S., **Beja-Pereira A.** (2010) Identification and characterization of adaptive genetic variation of two immunity-related genes in wild and domestic pigs from Eurasia. **XXXV Jornadas Portuguesas de Genética**. Braga, Portugal, June.
- Rosenbom S., Costa V., Steck B., Moehlman P., **Beja-Pereira A.** (2010). Fifteen polymorphic microsatellites for the world's most threatened wild equid – *Equus africanus*. **XXXV Jornadas Portuguesas de Genética**. Braga, Portugal, June.
- Almendra C., **Beja-Pereira A.**, Ferreira A.C., Corrêa de Sá M.I., Thompson G., Luikart G. (2008) Development and validation of a quantitative PCR test to detect *Brucella* spp in non-invasive fecal and urine samples. **Brucellosis 2008 International Research Conference**. London, UK, September.
- Almendra C., **Beja-Pereira A.**, Ferreira A.C., Corrêa de Sá M.I., Thompson G., Luikart G. (2008) Low brucellosis prevalence in Portuguese Wildlife: preliminary results. **Brucellosis 2008 International Research Conference**. London, UK, September.
- Santos A.P., Zsolnai A., Goyache F., Nunes J., Charneca R., Godinho R., Zhang Y-P., **Beja-Pereira A.** (2008) Impact of multiple-sired litters and a quest for molecular signatures of differentiation in wild boar and domestic pig. **7<sup>th</sup> International Symposium on Wild Boar (Sus scrofa) and on Sub-order Suiformes**. Budapest, Hungary, August.
- Royo L., Perez-Pardal L., **Beja-Pereira A.**, Alvarez I., Fernandez I., Traore A., Cantet R., Rincón C., Ponce de Leon A., Goyache F. (2008) Y-Chromosome diversity in cattle. **31<sup>st</sup> Conference of the International Society for Animal Genetics**. Amsterdam, Holland, July.
- Royo L., Perez-Pardal L., **Beja-Pereira A.**, Alvarez I., Fernandez I., Traore A., Cantet R., Rincón C., Ponce de Leon A., Goyache F. (2008) Cattle phylogeography inferred from Y-specific microsatellite systems. **Annual Meeting of the Society for Molecular Biology and Evolution**. Barcelona, Spain, June.
- Chen S., Costa V., Azevedo M., Luikart G., **Beja-Pereira A.** (2008) The Importance of Studying Genome-wide Variation in Local Livestock Genetic Resources, **Annual Meeting of the Society for Molecular Biology and Evolution**. Barcelona, Spain, June.

- Almendra C., Silva T.L., **Beja-Pereira A.**, Ferreira C., Correa-de-Sá M., Luikart G. (2007) HoofPrint genotyping of *Brucella* spp. Isolated in Portugal: Preliminary results and a new data analyses Approach. **60<sup>th</sup> Annual Brucellosis research Conference**. Chicago, USA, December.
- Antão T., **Beja-Pereira A.**, Luikart G. (2007) Modelling the Research Process in Evolutionary Genomics. **Jacques Monod Conferences, Evolutionary genomics**. Roscoff, France, May.
- Silva T.L., Godinho R., **Beja-Pereira A.**, Ferreira A.C., Sá M I, Luikart G (2006) Application of microsatellite DNA markers for tracking the origin and spread of Brucellosis disease outbreaks. **2<sup>nd</sup> International Tandem Repeat Consortium workshop on the Bioinformatics, Genomics and Functionality of Microsatellites and VNTRs**. Budapest, Hungary, September.
- Caramelli D., **Beja-Pereira A.**, Lari M., Vernesi C., Barbujani G., Lalueza Fox C., Luikart G., Bertorelle G. (2005) Italian aurochsen in the Palaeolithic had cattle-like mtDNA. **Annual Meeting of the International Society for Molecular Biology and Evolution**. Auckland, New Zealand, June.
- Quevedo, J.R., Fernández-Combarro E., Royo L.J., Álvarez I., **Beja-Pereira A.**, Fernández I., Bahamonde A., Goyache F. (2005) Ascertainment of evolutionary processes from the genetic variation associated to each geographic point in a map. **56<sup>th</sup> Annual Meeting of the European Association for Animal Production**. Uppsala, Sweden, June.
- Royo L.J., Álvarez I., Fernández I., Valera M., Jordana J., **Beja-Pereira A.**, Gutiérrez J.P., Payeras L., Gómez E., Goyache F. (2005) Allelic frequencies of MC1r and ASIP genes in Iberian horses. **56<sup>th</sup> Annual Meeting of the European Association for Animal Production**. Uppsala, Sweden, June.
- Beja-Pereira A.** (2004) Donkey domestication: the genetics point of view. **The second African Genome Initiative Conference**. Cairo, Egypt, March.
- Beja-Pereira A.**, Luikart G., Jianli H., Dobi P., Haque Bhuiyan A., Zakharov-Hesehus I. A., Chabchoub A., Azevedo M., El-Barody M., Ferrand N. (2003) Genetic Clues to the Origin of Domestic Donkey. **Inaugural Conservation Genetics Conference of the American Genetic Association**. Front Royal, USA, September.
- Beja-Pereira A.**, Ferrand N., Ertugrul O., Ouragh L., Luikart G. (2003) Two African Origins and Extremely Weak Population Structure in Donkeys Revealed by Mitochondrial DNA Sequencing. **International Workshop in Population Genetics for Animal Conservation**. Monte Bondone, Trento, Italy, September.
- Beja-Pereira A., Erhardt G., Ferrand N. (2001) Bovine milk protein genetic diversity across Europe. **8<sup>th</sup> Congress of The European Society for Evolutionary Biology**. Aarhus, Denmark, August.
- Beja-Pereira A.** and Ferrand N. (2000) A rapid and sensitive method for quality control in fresh pork. **International Congress on Authenticity of Species in Meat and Seafood Products**. Vigo, Spain, September.
- Beja-Pereira A.** and Ferrand N. (2000) Milk protein genetic variation in Southwestern European cattle breeds. **27<sup>th</sup> International Conference on Animal Genetics**. July, Minneapolis, USA.

#### AWARDS

- 2011: **Alfred Töpfer Prize for Agriculture, Forestry and Nature Protection**. Alfred Töpfer Stiftung, F.V.S. Germany.
- 1997: **Prémio APEZ/ACRAL** - Best Undergraduate Dissertation in Animal Sciences and Husbandry. Associação Portuguesa de Engenharia Zootécnica.

#### R&D GRANTS **Ongoing**

- GERUOVI: Genome and Rumen Characterization of Native Portuguese Domestic Sheep POCI-01-0145-FEDER-028575*. **coPI**. Duration: 2018-2021 (239.737 Euros).

*GERUCA: Genome Characterization of Native Portuguese Domestic Goats and its rumen POCl-01-0145-FEDER-028866. Core Team member.* Duration: 2018-2021 (238,724 Euros).

*BIOPOLIS: Teaming to Upgrade Excellence in Environmental Biology, Ecosystem Research and AgroBiodiversity, H2020-WIDESPREAD, European Commission Grant Agreement number: 763853. Core Team member.* Phase I, 2017-2018. (1.2M Euros).

*CompGen: Comparative genomics (B. taurus, B. indicus and O. aries) and genetic architecture of fitness and parasite resistance: validation in European Holstein, MICIIN-FEDER AGL2016-77813-R. PI: Felix Goyache, Collaborator.* Duration: 2016-2019.

## Completed

*Assessing The Whole-Genome Structure and Variation of the Tropical Adapted Zebu Cattle (Bos indicus) using Dense SNP Maps, PTDC/CVT/117851/2010. Principal Investigator* Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2012-2015 (148,178 Euros).

*Phylogeography and Conservation of the Threatened Asiatic Wild Ass Species, PTDC/BIA-BIC/118107/2010. Principal Investigator.* Portuguese Science Foundation (FCT), R&D Grant in Biological Sciences - Biodiversity and Conservation. Duration: 2012-2015 (147,915 Euros)

*Detecting Functional Genetic Variation Using an “Exomics” Approach: Massively Parallel Sequencing of Exons from Cattle and Pigs, PTDC/CVT/099782/2008. FCT. Team member.* Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2010-2013 (194,490 Euros).

Portugal-India Research Cooperation in Science & Technology. **Principal Investigator.** Portuguese Science Foundation (FCT), Duration: 2011-2013.

Portugal-China Research Cooperation in Science & Technology. **Principal Investigator.** Portuguese Science Foundation (FCT), Duration: 2011-2013.

*Genetic Diversity, Conservation and Phylogenetic History of the African Wild Ass (Equus africanus): A Non-invasive molecular Approach, PTDC/BIA/BDE/64111/2006. Principal Investigator.* Portuguese Science Foundation (FCT), R&D Grant in Biological Sciences - Biodiversity and Ecology. Duration: 2008-2012 (121,000 Euros).

*How genetically different is a domestic pig from a wild boar? Detecting molecular signatures of differential selection in candidate genes involved in domestication process and molecular adaptation in domestic and wild pig, PTDC/CVT/68907/2006. Principal Investigator.* Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2008-2011 (166,769 Euros).

*Molecular detection and impact of multiple-sired litters in the wild and domestic pig, PTDC/CVT/71429/2006. Principal Investigator.* Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2008-2011 (82,706 Euros).

*Development and Application of a Population Genomics Analysis Pipeline (PGAP) to Detect Adaptive Molecular Variation in Natural, Agricultural and Human Populations, PTDC/BIA-BDE/65625/2006. Team Member.* Portuguese Science Foundation (FCT), R&D Grant in Biological Sciences - Biodiversity and Ecology. Duration: 2008-2011. (78,063 Euros).

*Cross-species Transmission of Infectious Disease: A Population Genomic Approach for Tracking Brucellosis in Wildlife, Livestock, and Humans, PTDC/CVT/69438/2006 Team Member.* Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2008-2011 (175,519 Euros).

*Characterization, Evaluation and Conservation of Indigenous Animal Genetic Resources in the Sultanate of Oman. Team Member.* Sultan Qaboos University His Majesty fund. Duration: 2009-2012.

*Conservation of Afghanistan Wild Sheep (Ovis ammon). Team Member.* Wildlife Conservation Society, New York, USA. Duration: 2008-2011 (25,000 USD)

*Genome-wide approach to Detect Adaptative Molecular Variation in Domestic Ungulates, POCI/CVT/56758/2004* **Principal Investigator**. Portuguese Science Foundation (FCT), R&D Grant in Animal and Veterinary Sciences. Duration: 2005-2008 (93,000 Euros)

*Domestication of the Donkey: Aridity, Mobility and the Development of African Pastoral Societies, NSF-BCS-0447369*. **Team Member**. National Science Foundation (NSF), USA Grant in Behavioral and Cognitive Sciences (BCS). Duration: 2005-2008. (5,000 USD)

European Commission, 5<sup>th</sup> Framework Programme. Integrating Molecular Genetics, Socio-economics and Geostatistical Approaches [ECONOGENE], QLRT-CT-2000-02461. **Team Member**. Duration: 2001-2004

*Genetic Resources and Origins of Endangered European Sheep and Goats*. **Team Member**. NATO Science for peace and Security programme; Cooperative Science & Technology Sub-Programme. Duration: 2000-2003

*Genetic diversity of autochthonous cattle breeds. Genetic diversity inferred from milk protein genetic polymorphisms and a set of microsatellites, 3/3.2/CA/2002/95* **team member**. Portuguese Science Foundation (FCT), PRAXIS XXI Research Project in Animal and Veterinary Sciences. Duration: 1998-2000

*Characterisation and assessment of genetic aptitudes of local European beef cattle breeds for producing quality meat, FAIR1 CT950702* **Team Member**. European Commission RTD FAIR programme. Duration: 1997-1998.

*Genetic survey of the mutation responsible for porcine malignant hyperthermia in a local swine breed. Program for conservation and recovery of the Bísaro swine breed, PAMAF IED 7173* **Collaborator**. Programa de Apoio à Modernização Agrícola e Florestal. Duration: 1997-1998.

SCHOLARSHIPS **2008-2009: Postdoctoral fellowship [SFRH/BPD/ 38096/2007]**.

& **Research topic:** *Detecting molecular signatures of selection in domestic and wild pig*

FELLOWSHIPS **Funding:** Portuguese Science Foundation (FCT)

**2005-2008: Postdoctoral fellowship [SFRH/BPD/17822/2004]**.

**Research topic:** *Detecting Adaptative Molecular Variation in Wild and Domestic Ungulates*

**Funding:** Portuguese Science Foundation (FCT)

**2001-2004: PhD. scholarship [FRH/BD/2746/2000]**

**Research topic:** Population Genetics and Phylogeography of domestic cattle and donkey.

**Funding:** Portuguese Science Foundation (FCT), Graduate Programme in Areas of Basic and Applied Biology (GABBA)

2004: Young Scientist travel grant to attend the Second African Genome Initiative Conference, Cairo, Egypt.

2000: Young researchers International Society for Animal Genetics scholarship to attend the 27th International Conference on Animal Genetics, July, Minneapolis, USA.

2000: Scholarship from the Portuguese Foundation for Science and Technology to attend a short-course in MAS and QTL detection at University of Minnesota.

INVITED  
SEMINARS

Departamento de Biotecnologia, Universidade Nacional de Loja, Ecuador (November, 2014).

College of Medicine, Sultan Qaboos University, Oman (April, 2012).

Institute of Population Genetics, Veterinary University of Vienna, Austria, (March, 2012).

Faculdade de Letras, University of Porto, Portugal (March, 2012).

Biological Park of Gaia, Portugal (October, 2011).

CMIA, Matosinhos, CIMAAR, Portugal (May, 2011).

Exposição de Darwin, Universidade do Porto, Portugal (February, 2011).

Instituto Superior de Agronomia, University of Lisbon, Lisboa, Portugal (May, 2010).

School of Sciences, Universidade of Minho, Braga, Portugal (January, 2007).



IBMC, University of Porto, Portugal (June, 2006).  
Biology Students National Meeting, Porto, Portugal (October, 2005).  
Department of Biology, Bucknell University, USA (March, 2005).  
Genetics Summer School, University of Viterbo, Italy July, 2004).  
Department of Biology, University of Ferrara, Italy (November, 2003).

### **Special Lectures in Symposia**

*Plenary Speaker*, 2<sup>nd</sup> International Wild Equid Conference, Praga, Czech Republic (September, 2019).  
*Keynote Speaker*, 18<sup>th</sup> Portugaliae Genetica, Porto, Portugal (March, 2018).  
*Plenary Speaker*, Regional Conference on Animal Genetic Resources, Muscat, Sultanate of Oman (February, 2016).  
*Keynote Speaker*, “Speaking (of) Khoisan”: a symposium reviewing southern African prehistory, Leipzig, Germany (May, 2015).  
*Plenary Speaker*, 38<sup>th</sup> Portuguese Genetics Conference, Porto, Portugal (June, 2013).  
*Keynote Speaker*, 16<sup>th</sup> Meeting of the Spanish Society of Animal Breeding, Menorca, Spain (May, 2012).  
*Invited Speaker*, Workshop on the East Africa in the Indian Ocean World, University of Oxford, UK (March, 2012).  
*Invited Speaker*, Workshop on Health and Animal Production in the Tropics, EZN-Santarém, Portugal (July, 2009).  
*Keynote Speaker*, Ciência 2009 Meeting,, Lisboa, Portugal (July, 2009).  
*Keynote Speaker*, 18<sup>th</sup> Congresso de Engenharia zootécnica, Vila Real, Portugal (May, 2009).  
*Plenary Speaker*, Biennial Meeting of Society of Africanist Archaeologists Frankfurt, Germany, Co-presented with Diane Gifford-Gonzalez (September, 2008).  
*Keynote Speaker*, 6<sup>th</sup> Congresso Ibérico sobre Recursos Genéticos Animais, Lisbon, Portugal (September, 2008).  
*Plenary Speaker*, International Congress on Small Ruminants Research, Muscat, Sultanate of Oman (January, 2008).  
*Invited Speaker*, Workshop ”Darwin Agriculture”, Wageningen University, Holland (April, 2007).  
*Plenary Speaker*, 4<sup>o</sup> Encontro Nacional de Marcadores Moleculares, Vila Real, Portugal (November, 2006).  
*Plenary Speaker*, 13<sup>th</sup> Meeting of the Spanish Society of Animal Breeding, Gijon, Spain (June, 2006).

*September 30, 2019*