

Vincenzo Landi Curriculum Vitae

Vincenzo Landi (born in Latina, Italy, on the 10th of January of 1981) is a geneticist whose main activity centres on applied molecular biology and breeding. He currently works in a service laboratory collaborating with the University of Cordoba in his research area. He is also actively involved in research transfer with Latin America and North Africa, in addition to several other international activities such as the organization of the ISAG Pig molecular markers Comparison Test. His principal area of publication is genetics conservation and animal breeding and genetics of local farm breeds.

Education

September-October 2005

VI International course on local breeds conservation in traditional farming system (Cordoba, Spain). Organized by University of Cordoba and Cyted programs

October 2005

Università degli Studi di Perugia, Perugia, Italy

Degree: PhD in Animal Science (summa cum laude)

Members of commission: Prof. Juan Vicente Delgado (University of Cordoba, Spain), Prof. Luciano Morbidini (Università degli Studi di Perugia, Perugia, Italy), Prof. Giovanni Lombardi (Università degli Studi di Pisa, Pisa, Italy), Federico Sirri (Università degli studi di Bologna, Bologna, Italy)

PhD Thesis topic: "Genetic differentiation and population dynamics in European Merino sheep branch" *Advisor:* Dr. Sarti Francesca (Università degli Studi di Perugia, Perugia, Italy)

June 1998

Università degli Studi di Perugia, Perugia, Italy

Degree: B. and MS. in Animal Science (highest grade cum laude).

MSc Thesis topic: "Genetic characterization of Italian Merino derived sheep breeds with microsatellite markers"

Advisor: Dr. Sarti Francesca (Università degli Studi di Perugia, Perugia, Italy)

June 2012. Accredited Junior Lecturer by the National Agency for Quality Assessment and Accreditation of Spain (ANECA)

Professional Position

June 2009-present

Laboratory technical manager and head of R&D at Animal Breeding Consulting S.L. company. The current activity is focused on project design and research partner seeking and research activity in applied animal genetics and breeding. Manager of the molecular genetics service laboratory

March 2009-present

Research associate in the PAI-AGR218 research group at the University of Cordoba involved in several research projects on animal breeding and molecular genetics

September 2010 -present:

Adjunct Professor in the Master's Programme in Sustainable Animal Breeding at the University of Cordoba

Other professional activities

February 2010–present: In charge of the international molecular marker standardization test for parentage and forensics purposes, for swine species at the International Society of Animal Genetics (ISAG). This test is aimed to create a standard nomenclature for all the laboratories in the world which wants work in Pig parentage testing.

December 2011–present: Referee of *Small Ruminant Research* and the *Italian Journal of Animal Science*

September 2011-present: Member of the scientific and technical committee of the Spanish Segureño Sheep Breeders Association

April 2009-present: Referee of the University of Cordoba peer-reviewed journal *Archivos de Zootecnia*

June 2011-present: Associate editor of the peer-reviewed journal *Acta Iberoamericanas de Conservación Animal*, AICA

September 2006-March 2009: Coordinator of specialist training course taught in the MSc in Animal Science at the Faculty of Agriculture of the University of Perugia, Italy

October 2005-October 2008: Ministry of Research fellowship in the Applied Biology Department of the Faculty of Agriculture of the University of Perugia, Italy

December 2004-July 2005 Student fellowship at the Laboratory of Applied Molecular Genetics of the University of Cordoba, Leonardo EU programme

Participation in projects

- 1) PTQ-09-02-01311 (Spanish Ministry of Science): Search for new breeding criteria based on meat and carcass quality in the Segureño sheep breed (May 2010-present).
Role: Principal researcher; Contribution: €61,200
- 2) FP7-PEOPLE-2009-IRSES CATTLECOM-IKTA: Improving, transference and applicability of knowledge in conservation and characterization technologies in cattle breeds from Egypt and the Iberian peninsula
Role: External participant (Web designer, molecular biology expert, editing of teaching materials); Contribution: €172,000
- 3) RZ2011-00015-C03-01(National Institute for Agronomic Research of Spain). Genetic diversity study of sheep breeds through high density genotyping, next generation sequencing and breeds specific allele identification
Role: Participant; Contribution: €180,000
- 4) KBBE.2010.4-01 Strengthening the implementation of durable integration of EADGENE
Role: Participant; Contribution: €1,248,524
- 5) Ibero-American sheep breed diversity - Biovis (red CONBIAND)
Role: Coordinator; Contribution: various institutions.
- 6) Ibero-American cattle, horse, goat and pig diversity - (red CONBIAND)
Role: participant; Contribution: various institutions.

Conference organization

February 2012-present Co-organizer (Organizing Committee) of the XIII Simposio Iberoamericano sobre Conservación Utilización de los Recursos Zoogenéticos (Asuncion, Paraguay)

November 2011: Guest speaker at the XII Simposio Iberoamericano sobre Conservación Utilización de los Recursos Zoogenéticos (Panama City, Panama). Conference titled:

“Advances in genetic technologies and their application in animal selection”

February 2011-November 2011: Co-organizer (Organizing Committee) of the XII Simposio Iberoamericano sobre Conservación Utilización de los Recursos Zootenéticos (Panama City, Panama)

Professional visits

October 2011: Escuela Superior Politecnica De Chimborazo (Riobamba, Ecuador)

July 2011: Universidad Complutense de Madrid, Universidad Autónoma de Barcelona

April 2011 Instituto Nacional dos Recursos Biológicos, Fonte Boa, Vale de Santarém, (Portugal)

March 2011: INIFAP Research Institute-Tabasco (Villahermosa, Mexico) and Universidad Veracruzana (Veracruz, Mexico)

December 2006. Universidad de San Simón (Cochabamba, Bolivia)

February 2006. Ente CRA ROMA (Italy)

Courses, workshops and schools

May 2010: Seminar on Real Time PCR and Massive Sequencing: Application (BIO-RAD, Roche). Level: Technical course, Scientific Campus of University of Granada

February 2008: Statistics for Animal Science, ASPA (Perugia, Italia). Level: Postgraduate course, Prof. Panella, Faculty of Agronomy, Perugia (Italy)

November 2007: Molecular Methods for Animal Breeding. Level: Postgraduate course, Prof. Ajmone Marsan, Piacenza (Italy)

February 2007: Longitudinal Data Analysis. Level: Postgraduate course, Dr. Hayrettin Okut, University of Palermo-Marie Curie Transfer of Knowledge (Italy)

February 2007: Gene detection and marker assisted selection: Putting the theory into practice". Level: postgraduate course Dr. Ben Hayes University of Palermo-Marie Curie Transfer of Knowledge (Italy)

April 2006: Statistical genetic analysis of complex traits using molecular markers. Level: Postgraduate course, Miguel Perez Enciso (Santarem, Portugal)

Research and professional associations

From 2010: ISAG, International Society of Animal Genetics

From 2009. SERGA, Sociedad Española de Recursos Genéticos Animales

From 2007: RED CONBIAND, Scientific Network of Animal Genetics Conservation for Sustainable Development

From 2008: FIDSPA, Italian Federation of Animal Production

From 2007: IGA, International Goat Association

Skills

Laboratory: The fellow has broad experience in animal identification and parentage control in farm animals. His laboratory analyzed 15,000 samples/years from several breeders associations of Spain. He is an expert in DNA sequencing and fragment analysis using the ABI 377 and ABI 310/3130 sequencing platforms. He also has sound knowledge of basic and advanced molecular techniques including PCR, real-time PCR, high-resolution melting analysis (HRMA), basic SNP detection techniques (SNaPshot Multiplex, primer extension, KASPar-based assay, HRM genotyping), and RNA expression through real-time analysis.

Informatics and Biostatistics: Advanced user of Windows, Office, Microsoft Expression WEB Filmmaker and Access

Use of ABI Genescan and ABI Genotyper Software, ABI sequencing software and ABI Genemapper 4

Advanced use of all the common biostatistics software for molecular biology analysis including Structure, Genetix, Leadmix, Arlequin and Genepop. Basic use of the R Software platform

Use of Web resources (NCBI, Primer3, Ensembl)

Language: Native speaker of Italian; fluent in Spanish; proficient in English

Teaching experience and students supervision

June 2012: Basic Molecular Genetics. Ain Shams University and Animal Production Research Institute (APRI) (Cairo, Egypt)

March 2011: Teacher of basic molecular biology. INIFAP research institute, Tabasco (Mexico). In this experience the fellow was called to train the technicians in charge of the new laboratory and perform the starting set up of equipments and basic molecular techniques.

June 2010-present: Supervisor of PhD research of the doctoral students Baldomero Molina Flores (Associate Professional Officer RAHC-NA/ FAO Tunis) and Agueda Pons Barro (Unidad de Razas Autóctonas IBABSA)

Academic year 2009-present: Teaching assistant of the course titled "New Genetic Technologies Applied to Animal Improvement". Department of Genetics, University of Cordoba

Academic year 2009-present: Molecular Genetics Laboratory Practicum. Responsible for Erasmus Programme students at the Department of Genetics, University of Cordoba

Academic year 2005-2009: Teaching assistant in courses on "Farm Animal Breeding". Faculty of Agriculture, University of Perugia

Academic year 2005-2009: Teaching assistant in courses on "Molecular Genetics" Faculty of Agriculture, University of Perugia

Academic year 2006-2008: Co-supervisor of the 'Laurea' dissertation (UK Master Level Equivalent) of the following students: D'Angelo P.; Bono C.; Ceccobelli S.; Chiazese M.; Bianchi M.; Martinelli T.

Publications in peer-reviewed journals (2011-2012)

1. A Martínez, T. Gama, J Cañón, C Ginja, J V. Delgado, S Dunner, V Landi, I Martín-Burriel, M. Penedo, C Rodellar, J Vega-Pla, A Acosta, L A. Álvarez, E Camacho, O Cortés, J R. Marques, O. R Martínez, RD. Martínez, L Melucci, G Martínez-Velázquez, J E. Muñoz, A Postiglioni, J Quiroz, P Sponenberg, O Uffo, A Villalobos, D Zambrano, P Zaragoza. (2012) **Genetic footprints of Iberian cattle in America 500 years after the arrival of Columbus** .PLoS ONE PONE-D-12-01789R2 (in press)

2. B Badaoui, A Manunza, M D'Andrea, F Pilla, J Capote, J Jordana, A Ferrando, A Martínez, J V. Delgado, V Landi, M Gómez, A L. Pons, Mk El Ouni, O Vidal, M Amills. (2012) **Identification of c.483C>T polymorphism in the caprine tyrosinase-related protein 1 (TYRP1) gene**. Vol 11, No 1.

3. Landi, V; Quiroz-Valiente, J. **Los avances de las nuevas tecnologías genéticas y su aplicación en la selección animal**.(2011) Actas Iberoamericanas en Conservación Animal. vol 1 (33-43)

4. Delgado, J; Martínez, A; Acosta, A; Álvarez, L. A. ; Armstrong, E.; Camacho-Vallejo, M; Cañon, J; Cortés, O. ; Dunner, S. ; Landi, V; Marques, J. R. ; Martín -Burriel, I. ; Martínez, O. R. ; Martínez, R. D. ; Melucci, L. ; Muñoz, J. E.; Penedo, M. C. T. ; Postiglioni, A. ; Quiróz, J.; Rodellar, C. ; Sponenberg, P. ; Uffo, O. ; Ulloa - Arvizu, R. ; Vega-Pla, J L; Villalobos, A; Zambrano, D. ; Zaragoza, P; Gama, L. T. ; Ginja, C (2012) **Genetic characterization of Latin-American Creole cattle using microsatellite markers**. Animal Genetics. vol. 43 (pag 2-10)
5. Quiroz, J; Constantino, A. M.; Granados, Z. L.; Landi, V. (2011) **Frecuencias alélicas de características de calidad de la leche y de la canal en dos razas lecheras de Tabasco**. Actas Iberoamericanas en Conservación Animal., vol1 (187-189)
6. Martínez-Martínez, María Amparo; Ferrando, A. ; Manunza, A. ; Gómez, M. ; Landi-Periati, Vincenzo; Jordana, Jordi; Capote, J. ; Badaoui, B. ; Vidal, O. ; Delgado-Bermejo, Juan Vicente; Amills, Marcel.(2011) **Inferring the demographic history of a highly endangered goat breed through the analysis of nuclear and mitochondrial genetic signatures**. SMALL RUMINANT RESEARCH. Volume 104, Issue 1, (78-84)
7. Landi, V; Haba, M.; Martínez, Amparo; Albardonedo, D; Delgado, J V; Camacho, E. (2011) **Uso de marcadores moleculares para la gestión de la biodiversidad intra-ganadería en la raza bovina negra andaluza**. Actas Iberoamericanas en Conservación Animal. 2011, Vol. 1 (142-146)
8. Landi-Periati, Vincenzo; Gómez-Carpio, Mayra; Pleguezuelos-Hernández, Javier; Gama, Luis; Carolino, Nuno; Delgado-Bermejo, Juan Vicente; Martínez-Martínez, María Amparo. (2011) **Análisis de asociación entre los Snps de la kappa caseína (csn3) y valores genéticos para la producción lechera en la raza caprina murciano-granadina**. Actas Iberoamericanas en Conservación Animal. Vol. 1 (161-164)
9. Martínez-Martínez, María Amparo; Landi-Periati, Vincenzo; Amills, Marcel; Capote, Juan; Gómez, M. ; Jordana, Jordi; Ferrando, A. ; Manunza, A. ; Martín, D. ; Pons, Agueda; Vidal, O. ; Delgado-Bermejo, Juan Vicente. (2011) **Biodiversidad caprina en España**. ARCHIVOS DE ZOOTECNIA. vol 60/231 (437-440)
10. Landi-Periati, Vincenzo; Bianchi-,Matteo; Ceccobelli-,Simone; Di Lorenzo-,Piera; Lasagna-,E.; Ciocchetti-,Martina; Sahin-,Emine; Mugnai-,Cecilia; Panella-,F.; Sarti-,F. M. (2011) **A microsatellites-based survey on the genetic structure of two italian chicken breeds**. Italian Journal of Animal Science. Vol 10/3 (205-211)
11. Martín-Burriel, I; Rodellar, C; Cañon, J; Cortés, O; Dunner, S; Landi, V; Martínez, A; Gama, L.t. ; Ginja, C; Penedo, M.C.T.; Ginja-,C.; Sanz, A.; Cortés, Oscar; Zaragoza, P; Delgado, J V. (2011) **Genetic diversity, structure, and breed relationships in Iberian cattle**. Journal of Animal Science. vol 89 (893- 906)
12. Edwards CJ, Ginja C, Kantanen J, Pérez-Pardal L, Tresset A, Stock F;, Gama LT, Penedo MC, Bradley DG, Lenstra JA, Nijman IJ, Baumung R, Mommens G, Holm LE, Withen KB, Pedersen BV, Gravlund P, Moazami-Goudarzi K, Gautier M, Laloë D, Oulmouden A, Levéziel H, Taberlet P, Simianer H, Täubert H, Erhardt G, Medugorac I, Eythorsdottir E, Marsan PA, Negrini R, Lasagna E, Landi V, Panella F, Sarti FM, Longeri M, Ceriotti G, Zanotti M, Marletta D, Criscione A, Valentini A, Savarese MC, Pilla F, Grislis Z, van Boxtel DC, Cuppen E, van Haeringen W, van de Goor L, Felius M, Olsaker I, Ivanova Z, Popov R, Ammosov I, Kiselyova T, Činkulov M, Stojanovic S,

Dunner S, Rodellar C, Azor PJ, Molina A, Rodero E, Goyache F, Götherström A, Dolf G, Williams JL, Wiener P. (2011). **Dual origins of dairy cattle farming-evidence from a comprehensive survey of European Y-chromosomal variation**. PloS one Biology, vol 6 (E15922-E15922)

13. Landi, V; Delgado, JV; Martinez, A; Negro-,J.J.; Vega-Pla-,J.L.; Cortázar-,C.; García-Aznar, José M^a. (2011) **Caracterización genética del jabalí de la estación biológica de Doñana**. Archivos de Zootecnia. vol 60/231 (373-376)

14. Cañon, J Garcia, C. ; Delgado, J V; Dunner S; Gama, L; Landi, V; Martin -Burriel, I Martinez, A; Penedo, C. ; Rodellar, C.; Zaragoza, P; Ginja, C. (2011) **Relative breed contributions to neutral genetic diversity of a comprehensive representation of Iberian native cattle**. ANIMAL. vol 5/9 (1-12)

15. Lasagna, Emiliano; Bianchi, Matteo; Ceccobelli, Simone; Landi-Periati, Vincenzo; Martinez-Martinez, Maria Amparo; Vega-Pla, Jose Luis; Panella, Francesco; Delgado-Bermejo, Juan Vicente; Sarti, Francesca Maria. (2011) **Genetic relationships and population structure in three Italian Merino derived sheep breeds**. Small Ruminant Research. 96 (111-119)

16. Delgado, JV; Landi, V; Martinez, A; Molina-Flores, B; Galal-,S.; Abdelaziz-,A. (2011) **Caracterización de la raza vacuna Baladi del alto Egipto mediante microsatélites**. CONGRESOS Y JORNADAS. SERIE PRODUCCIÓN ANIMAL - ASOCIACIÓN INTERPROFESIONAL PARA EL DESARROLLO AGRARIO. (536-538)

Book chapters and others

Title: IBÉRICO (VARIEDAD RETINTO)

Authors: León-Jurado, José Manuel; Martinez-Martinez, Maria Amparo; Landi-Periati, Vincenzo

Title of the book: GUÍA DE CAMPO DE LAS RAZAS AUTÓCTONAS ESPAÑOLAS MADRID, ESPAÑA. Editor: MINISTERIO DE MEDIO AMBIENTE Y MEDIO RURAL Y MARINO

ISBN: 978-84-491-0946-1, year 2009

Title: MERINA IBÉRICO

Authors: -Vallejo, Maria Esperanza; León-Jurado, José Manuel; Landi, Vincenzo

Title of the book: GUÍA DE CAMPO DE LAS RAZAS AUTÓCTONAS ESPAÑOLAS MADRID, ESPAÑA. Editor: MINISTERIO DE MEDIO AMBIENTE Y MEDIO RURAL Y MARINO

ISBN: 978-84-491-0946-1, year 2009

Delgado-Bermejo, Juan Vicente; Gómez-Carpio, Mayra; Pleguezuelos-Hernández, Javier; León-Jurado, José Manuel; Martinez-Martinez, Maria Amparo; Landi-Periati, Vincenzo; Martínez-hurtado, Emiliano; Delgado-Vico, Manuel; Martínez Martínez, Francisco A. ; Manjon Jiménez, Juana; Martin Martin, Antonio ; Herrera Fernández, Jessie. **Catálogo De Sementales De La Raza Caprina Murciano Granadina 2011** : **ISBN:** : 978-84-95609-51-9