



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Paola Modesto
Date of birth	07 January 1973
Title	DVM
Administration	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta
Occupation or position held	Employed as DVM in the Genoa Department
Phone number	010542274
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Work experience

	Dates	From 01st January 2017 to date
Occupation or position held		Employed as DVM in the Genoa Department of the Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta. Permanent position.
Main activities and responsibilities		Monitoring of the zoonosis and transmissible animal diseases in livestock
Name and address of employer		Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta
Type of business or sector		Animal Health, Food safety, Genetics
	Dates	From 01st October 2015 to 31th December 2016
Occupation or position held		Employed as DVM in the Local Authority of the Italian Ministry of Health. Permanent position.
Main activities and responsibilities		Food control activities. Research activities related to the National Reference Centre for Veterinary and Comparative Oncology
Name and address of employer		ASL3 Genovese
Type of business or sector		Animal Health
	Dates	From 01st May 2011 to 30th September 2015
Occupation or position held		Research Scientist at the Laboratory of Genetics and Immunobiochemistry in the Neuroscience Department. Not permanent position.
Main activities and responsibilities		Involvement in the management and organization of the research activities related to animal genetic characterization, animal biodiversity and genetic resistance to disease of livestock. Studies on population genetics related to wildlife, exotic and domestic animals. Set up of methods for molecular genetic studies. Gene expression studies by real-time qPCR. Bioinformatics and statistical analyses of genetic data. Drawing up project and writing of scientific articles. Internal and external training.
Name and address of employer		Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta.
Type of business or sector		Animal Health, Genetics

Dates From 22nd June 2015 to 3rd July 2015

Occupation or position held Visiting scientist at the Center for Conservation and Evolutionary Genetics Smithsonian Conservation Biology Institute, scientific director Dr Robert C.Fleischer..

Main activities and responsibilities Next Generation Sequencing techniques applied to conservation and forensic genetics

Name and address of employer Center for Conservation and Evolutionary Genetics- Smithsonian Conservation Biology Institute.

Type of business or sector Population and conservation genetics. Forensic genetics.

Dates From 1st June 2015 to 19th June 2015

Occupation or position held Visiting scientist at the R&D lab directed by Dr Bruce Budowle, Applied Genetics At the University of North Texas Health Science Center

Main activities and responsibilities Wet lab activities on library preparation and human forensic MPS (Massively Parallel Sequencing) data analysis.

Name and address of employer Institute of Applied Genetics at the University of North Texas Health Science Center- Fort Worth-Texas.

Type of business or sector Forensic Genetics

Dates From 8th May 2015 to 28th May 2015

Occupation or position held Visiting scientist at the Veterinary Genetics Laboratory (VGL), University of California-Davis directed by Dr Cecilia Penedo

Main activities and responsibilities Experience in domestic animals genotyping and in the development of assays for the detection of genetic disease using genetic marker panels. Experience in protocols and data analysis for animal forensic genetics.

Name and address of employer Veterinary Genetics Laboratory (VGL), University of California-Davis

Type of business or sector Animal Health, Forensic Genetics

Dates From 15 April 2009 to 30 April 2011

Occupation or position held Research Fellow as DVM at the Laboratory of Genetics and Immunobiochemistry in the Neuroscience Department.

Main activities and responsibilities Drawing up projects, wet lab activity (mainly sequencing, microsatellite analysis, Real Time qPCR, molecular diagnostic PCRs), data analysis, preparing research findings for publications, writing scientific papers. Internal and external training.

Name and address of employer Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta

Type of business or sector Animal Health, Genetics

Dates from 01 January 2009 to 14 April 2009

Occupation or position held Research Fellow as Ph.D student in Biotechnology Applied to Veterinary Sciences and Animal Husbandry at the Department of Animal Pathology, Hygiene and Veterinary Public Health- Institute of Infectious Diseases.

Main activities and responsibilities Wet lab activity (mainly RT PCR, PCR and cell cultures), data analysis mainly dealing with infectious disease diagnostics, genetic resistance to disease.

Name and address of employer Faculty of Veterinary Medicine, University of Milan.

Type of business or sector Animal Health, Infectious Diseases, Genetics.

**Dates from 08 July 2002 to 07 July 2003
from 01 June 2004 to 15 December 2008**

Occupation or position held	Research Fellow as DVM at the National Reference Centre for Veterinary and Comparative Oncology-Genoa
Main activities and responsibilities	Drawing up project, wet lab activity (mainly sequencing, RT PCR, Real Time PCR , cDNA-cloning, molecular diagnostic PCR), data analysis, preparing research findings for scientific communications and publications mainly concerning cancer genetics, veterinary and comparative oncology, animal biodiversity, food microbiology, food hygiene and food testing. Internal and external training.
Name and address of employer	Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta
Type of business or sector	Animal Health, Food Control, Oncology.

Dates from 15 September 2003 to 15 December 2003

Occupation or position held	Stage at the Biotechnology and GMO's Unit (Institute for Health and Consumer Protection- IHCP)
Main activities and responsibilities	Wet Lab activity (PCR, Real Time qPCR and ELISA), data analysis.
Name and address of employer	European Commission- Joint Research Centre, Ispra
Type of business or sector	Food hygiene and food testing, GMOs analysis

Dates from April 1999 to July 2002

Occupation or position held	Clinical veterinarian in private structures.
Main activities and responsibilities	Clinical and surgical activities.
Name and address of employer	Veterinary clinic Baroni-Scapin, Genoa-Italy Veterinary clinic Dott. Valentino Bogliolo di Alassio (SV)-Italy Genovese Veterinary Center, Genoa-Italy
Type of business or sector	Pet care, Animal Health.

Dates from April 2001 to August 2001

Occupation or position held	Consultant
Main activities and responsibilities	Nutritional consultancy and formulation of daily food rations and of new products.
Name and address of employer	Novavet S.p.A, Genoa- Italy
Type of business or sector	Pet food.

Education and training

Dates 2009- 2012

Title of qualification awarded	PhD degree in "Biotechnology Applied to Veterinary Sciences and Animal Husbandry"
Principal subjects/occupational skills covered	Expression profile of immune response genes in goats with experimentally induced <i>Staphylococcus aureus</i> mastitis
Name and type of organisation providing education and training	Faculty of Veterinary Medicine- University of Milan.
Level in national or international classification	Postgraduate academic degree

Dates 3 July 2006

Title of qualification awarded	Degree of specialization in "Inspection of animals and animal-originated products".
Principal subjects/occupational skills covered	Food inspection, food microbiology, food hygiene and food testing, validation of molecular biology techniques for food and feed control.

Name and type of organisation providing education and training Faculty of Veterinary Medicine- University of Milan.
 Level in national or international classification Postgraduate academic degree

Dates Academic Year 2002/2003

Title of qualification awarded Master in "Monitoring and traceability of genes and transgenes in environmental and alimentary matrices"

Principal subjects/occupational skills covered Food hygiene, molecular biology techniques for feed and food testing, GMOs analysis.

Name and type of organisation providing education and training Faculty of Agricultural Science - University of Milan.
 Level in national or international classification Postgraduate academic degree

Dates 22 March 1999

Title of qualification awarded Doctor in Veterinary Medicine

Principal subjects/occupational skills covered Graduate program of the Veterinary Medicine course.

Name and type of organisation providing education and training Faculty of Veterinary Medicine – University of Parma
 Level in national or international classification Academic degree

Personal skills and competences

Mother tongue(s) Italian
 Other language(s) English
 Self-assessment
 European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
En B2	C2	B1	B1	C1

(*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu)

Technical skills and competences I am vet with a background in molecular biology and genetics currently working as research scientist at the Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta. My interest ranges from basis underlying genetic resistance to disease of livestock to population genetics for animal conservation, forensic genetics. I am familiar with the main molecular biology techniques for diagnostics, gene expression and genome-based studies.

Computer skills and competences Good knowledge of the Windows operating systems and products, familiar with the use of Macintosh and Linux systems. Good knowledge in the consultation of genomic and bioinformatics databases and in using software for collection, alignment, management and analysis of sequence and microsatellite results. Basic practice in using software for population genetics data analysis.

National and International Publications

- Validation of a DNA biochip for species identification in food forensic science (2017). Beltramo C., Riina M.V., Colussi S., Campia V., Maniaci M.G., Biolatti C., Trisorio S., **Modesto P.**, Peletto S. and Acutis P.L. Food Control, 78, 366-373.
- Evidence of circulation of the novel Border Disease Virus genotype 8 in chamois. Claudio Caruso, Simone Peletto, Francesco Cerutti, **Paola Modesto**, Serena Robetto, Lorenzo Domenis, Loretta Masoero, Pier Luigi Acutis. Archives of Virology, 2016, DOI: 10.1007/s00705-016-3112-4
- Hepatitis E Virus: A Cross-Sectional Serological and Virological Study in Pigs and Humans at Zoonotic Risk within a High-Density Pig Farming Area. Caruso C, Peletto S, Rosamilia A, **Modesto P**, Chiavacci L, Sona B, Balsamelli F, Ghisetti V, Acutis PL, Pezzoni G, Brocchi E, Vitale N, Masoero L. Transbound Emerg Dis. 2016 Jul 5. doi: 10.1111/tbed.12533.
- Detection of West Nile and Usutu Viruses in Italian Free Areas: Entomological Surveillance in Piemonte and Liguria Regions, 2014. Pautasso A, Radaelli MC, Ballardini M, Francese DR, Verna F, **Modesto P**, Grattarola C, Desiato R, Bertolini S, Vitale N, Ferrari A, Rossini I, Accorsi A, Mosca A, Monaco F, Savini G, Prearo M, Mignone W, Chiavacci L, Casalone C. Vector Borne Zoonotic Dis. 2016 Apr;16(4):292-4. doi: 10.1089/vbz.2015.1851. Epub 2016 Feb 10.
- Sex- and age-related variation in metal content of penguin feathers. Squadrone S, Abete MC, Brizio P, Monaco G, Colussi S, Biolatti C, **Modesto P**, Acutis PL, Pessani D, Favaro L. Ecotoxicology. 2016 Mar;25(2):431-8. doi: 10.1007/s10646-015-1593-7. Epub 2015 Nov 23.
- A new genotype of border disease virus with implications for molecular diagnostics. Peletto S, Caruso C, Cerutti F, **Modesto P**, Zoppi S, Dondo A, Acutis PL, Masoero L. Arch Virol. 2016 Feb;161(2):471-7. doi: 10.1007/s00705-015-2696-4. Epub 2015 Nov 23.
- West Nile Virus Surveillance in 2013 via Mosquito Screening in Northern Italy and the Influence of Weather on Virus Circulation. Calzolari M, Pautasso A, Montarsi F, Albieri A, Bellini R, Bonilauri P, Defilippo F, Lelli D, Moreno A, Chiari M, Tamba M, Zanoni M, Varisco G, Bertolini S, **Modesto P**, Radaelli MC, Iulini B, Prearo M, Ravagnan S, Cazzin S, Mulatti P, Monne I, Bonfanti L, Marangon S, Goffredo M, Savini G, Martini S, Mosca A, Farioli M, Gemma Brenzoni L, Palei M, Russo F, Natalini S, Angelini P, Casalone C, Dottori M, Capelli G. PLoS One. 2015;10(12):e0146436. doi: 10.1371/journal.pone.0140915. eCollection 2015.
- Hepatitis E Virus: First Description in a Pet House Rabbit. A New Transmission Route for Human? Caruso C, **Modesto P**, Prato R, Scaglione FE, De Marco L, Bollo E, Acutis PL, Masoero L, Peletto S. Transbound Emerg Dis. 2015 Jun;62(3):229-32. doi: 10.1111/tbed.12348. Epub 2015 Mar 12.
- First report of malignant catarrhal fever in a captive pudu (Pudu puda). **Modesto P**, Grattarola C, Biolatti C, Varello K, Casalone C, Mandola ML, Caruso C, Dondo A, Goria M, Rocca F, Decaro N, Leonardi C, Iulini B, Acutis PL. Res Vet Sci. 2015 Apr;99:212-4. doi: 10.1016/j.rvsc.2015.02.010. Epub 2015 Feb 25.
- "Serological and virological survey of hepatitis E virus in wild boar populations in northwestern Italy: detection of HEV subtypes 3e and 3f." Caruso C, **Modesto P**, Bertolini S, Peletto S, Acutis PL, Dondo A, Robetto S, Mignone W, Orusa R, Ru G, Masoero L. Arch Virol. 2015 Jan;160(1):153-60. doi: 10.1007/s00705-014-2246-5. Epub 2014 Oct 5.

- “Detection of a phylogenetically divergent eel virus European X (EVEX) isolate in European eels (*Anguilla anguilla*) farmed in experimental tanks in Italy.” C. Caruso, S. Peletto, A. Gustinelli, P. Arsieni, O. Mordenti, **P. Modesto**, P.L. Acutis, L. Masoero, M.L. Fioravanti, M. Prearo. *Aquaculture*, 2014; 434; 115–120.
- “Association of a specific major histocompatibility complex class II β single nucleotide polymorphism with resistance to lactococcosis in rainbow trout, *Oncorhynchus mykiss* (Walbaum).” Colussi S, Prearo M, Bertuzzi SA, Scanzio T, Peletto S, Favaro L, Modesto P, Maniaci MG, Ru G, Desiato R, Acutis PL. *J Fish Dis*. 2014 Jan 8.
- “Genome-wide analysis of Italian sheep diversity reveals a strong geographic pattern and cryptic relationships between breeds.” Ciani E, Crepaldi P, Nicoloso L, Lasagna E, Sarti FM, Moioli B, Napolitano F, Carta A, Usai G, D’Andrea M, Marletta D, Ciampolini R, Riggio V, Occidente M, Matassino D, Kompan D, Modesto P, Macciotta N, Ajmone-Marsan P, Pilla F. *Anim Genet*. 2013 Dec 5.
- “Evaluation of internal reference genes for quantitative expression analysis by real-time reverse transcription-PCR in somatic cells from goat milk.” **Modesto P**, Peletto S, Pisoni G, Cremonesi P, Castiglioni B, Colussi S, Caramelli M, Bronzo V, Moroni P, Acutis PL. *J Dairy Sci*. 2013 Dec;96(12):7932-44.
- “Epidemiological history and phylogeography of West Nile virus lineage 2.” Ciccozzi M, Peletto S, Cella E, Giovanetti M, Lai A, Gabanelli E, Acutis PL, **Modesto P**, Rezza G, Platonov AE, Lo Presti A, Zehender G. *Infect Genet Evol*. 2013 Jul;17:46-50.
- “Response of the goat mammary gland to infection with *Staphylococcus aureus* revealed by gene expression profiling in milk somatic and white blood cells” Cremonesi P, Capoferri R, Pisoni G, Del Corvo M, Strozzi F, Rupp R, Caillat H, **Modesto P**, Moroni P, Williams JL, Castiglioni B, Stella A. *BMC Genomics*. 2012 Oct 9;13:540
- “Genetic diversity of Usutu virus” Simone Peletto, Alessandra Lo Presti, **Paola Modesto**, Eleonora Cella, Pier Luigi Acutis, Francesca Farchi, Marco Ciotti, Gianguglielmo Zehender, Massimo Ciccozzi. *New Microbiologica*, 35, 167-174, 2012.
- “Association of an indel polymorphism in the 3’UTR of the caprine SPRN gene with scrapie positivity in the central nervous system.” Peletto S, Bertolini S, Maniaci MG, Colussi S, **Modesto P**, Biolatti C, Bertuzzi S, Caramelli M, Maurella C, Acutis PL. *J Gen Virol*. 2012 Apr 4.
- “Evaluation of genetic variability in brown hare populations from two protected areas in Northern Italy”. **Modesto P**, Cava PL, Peletto S, Colussi S, Vidus Rosin A, Meriggi A, Acutis PL. *Hystrix It. J. Mamm. (n.s.)* 2011 22(2): 257-268.
- “Evaluation of internal reference genes for quantitative expression analysis by real-time PCR in ovine whole blood.” Peletto S, Bertuzzi S, Campanella C, **Modesto P**, Maniaci MG, Bellino C, Ariello D, Quasso A, Caramelli M, Acutis PL. *Int J Mol Sci*. 2011;12(11):7732-47.
- “Detection of a morphogenetically novel *Sarcocystis hominis*-like in the context of a prevalence study in semi-intensively bred cattle in Italy.” Domenis L, Peletto S, Sacchi L, Clementi E, Genchi M, Felisari L, Felisari C, Mo P, **Modesto P**, Zuccon F, Campanella C, Maurella C, Guidetti C, Acutis PL. *Parasitol Res*. 2011 Dec;109(6):1677-87
- “A bilateral ovarian psammomatous papillary cystic adenocarcinoma in a German Shepherd bitch” Petterino C., **Modesto P.**, Ratto A.. *Comparative Clinical Pathology*. 2009; 19 (4): 389-395.

-“A case of interscapular fibrosarcoma in a dwarf rabbit (*Oryctolagus cuniculus*)”.
Petterino C., Modesto P., Strata D., Vascellari M., Mutinelli F., Ferrari A., Ratto A..
Journal of Veterinary Diagnostic Investigation. 2009; 21(6):900–905.

-“Transcriptional properties of feline p53 and its tumor-associated mutants: an yeast-based approach” Umberto Cardellino, Yari Ciribilli, Virginia Andreotti, Paola Modesto, Paola Menichini, Gilberto Fronza, Claudio Pellegrino, Alberto Inga. *Mutagenesis*. 2007; 22 (6):417-23.

-“Animali esotici: Tutela, normative benessere e sanità” Biolatti C, Modesto P, Riina MV.
La settimana Veterinaria Dicembre 2011: 766: 4-10.

-“Descrizione delle principali neoplasie di cane in due distinti trienni” Cardellino U, Modesto P, Podestà G, Ratto A, Ferrari A. *Bollettino AIVPA* n.1 Anno 2008: 15-20.

Author of more than 100 abstract presented at Italian and International congress.
Speaker in 15 courses and conferences.

Genoa, 01/06/2017