

Dr. Simone PELETTO, DVM PhD

CURRICULUM VITAE ET STUDIORUM

1. PERSONAL INFORMATION

Name, Surname **SIMONE PELETTO**

E-mail simone.peletto@izsto.it

Nationality Italian

2. PROFESSIONAL EXPERIENCE

- Dates (from – to) From 01 August 2007 to date
- Institute **Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta - Laboratory of Genetics and Immunobiochemistry**
Via Bologna, 148 - 10154 Torino
Tel.: 011/2686367, fax: 011/2487770 e-mail: cea.genetica@izsto.it
- Organization Governmental under the Ministry of Health
- Occupation or position held Research Scientist working in the Lab of Genetics and Immunobiochemistry in the "S.C. Neuroscienze con annesso CEA" Department
Permanent position, 38 working hours/week
- Research activities Involvement in the management and organization of the research activities related to the genetics of prion diseases, the study of genetic resistance to other infectious and non-infectious diseases, microorganism typing. Application of genomics (NGS techniques) to infectious diseases. Participation to international research networks and scientific collaborations. Set up of methods for molecular genetic studies. Gene expression studies by real-time qPCR. Molecular epidemiology researches by typing of viral and bacterial strains and phylogenetic analysis of sequence data. Bioinformatics and statistical analyses for genetic researches and writing of scientific articles. Internal and external training.

- Dates (from – to) From 01 June 2009 to 05 June 2009
- Institute **Neuropathogenesis Division**
The Roslin Institute and R(D)SVS, University of Edinburgh
Ogston Bldg., West Mains Rd.,
Edinburgh EH9 3JF, UK
phone 00 44 (0)131 667 5204 FAX 00 44 (0)131 668 3872
email: wilfred.goldmann@roslin.ed.ac.uk
- Organization University of Edinburgh
- Occupation or position held Visiting scientist at the Dr. Wilfred Goldmann's Lab. Funding was provided by a travel grant in the frame of a personnel exchange programme of the Network of Excellence Neuroprion
- Research activities This training has allowed to study at a deeper level the Shadow of the Prion Protein gene (*SPRN*). In particular, a protocol of amplification of the *SPRN* gene for several animal species of interest in the field of prion diseases was set up. The protocol is currently being used in the Research Project "Progetto di Ricerca Corrente IZS PLV 05/08 Identificazione di biomarker per diagnosi di scrapie negli ovini e studio del ruolo dei geni *SPRN* e *RAGE* nella BSE bovina e nella scrapie dei caprini".

- Dates (from – to) From 01 November 2006 to 31 July 2007
 - Institute **National Reference Centre for Animal TSEs (CEA) - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta**
Via Bologna, 148 - 10154 Torino
Tel.: 011/2686.1, fax: 011/2487770 e-mail: cea.genetica@izsto.it
 - Organization Governmental
 - Occupation or position held Grant as DVM at the Lab of Genetics of CEA (Area tecnica Neuroscienze e Genetica), research project: "Scrapie nella capra: studio della suscettibilità genetica tramite infezione sperimentale e valutazione dell'accuratezza dei test diagnostici rapidi" (PRC 014/2005).
 - Research activities The aim of the study was to investigate the response of goats of selected PRNP genotypes to experimental infection with classical and atypical scrapie isolates. Involvement in other research projects on genetics of cancer in animal models and diagnostics by molecular methods. Other activities: identification of bacterial strains by analysis of the 16srRNA gene using MicroSeq 500/FullGene (Applied Biosystems) and data analysis by MicroSeq software and Blast; Theoretical and practical training (2 weeks) "Genetic Sequencing of Microorganism and Restriction Analysis" to vets of the National Center for Monitoring, Reference, Laboratory Diagnostics and Veterinary Methodology of Kazakhstan.
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- Dates (from – to) From 01 July 2004 to 31 October 2006
 - Institute **National Reference Centre for Animal TSEs (CEA) - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta**
Via Bologna, 148 - 10154 Torino
Tel.: 011/2686.1, fax: 011/2487770 e-mail: cea.genetica@izsto.it
 - Organization Governmental
 - Occupation or position held Grant as DVM at the Lab of Genetics of CEA (Area tecnica Neuroscienze e Genetica), research project: "Studio dei polimorfismi del gene PrP caprino e dei ruminanti selvatici e dei possibili fattori genetici condizionanti la suscettibilità alla BSE nei bovini" (PRC 008/2003).
 - Research activities Genotyping in the frame of the national and regional selection plans for scrapie resistance in sheep. Genotyping of scrapie positive cases and validation of new kits for sheep genotyping. Research activities in the field of genetic variability of the PRNP gene in goats, wild ruminants and domestic cattle. He has gained skills in the molecular biology methods in use in the lab, particularly direct sequencing and fragment analysis. He has been trained also in the pyrosequencing technique and qPCR methods and finally knowledge of bioinformatics softwares, as Chromas, Mega, ClustalW, SeqMan (Lasergene), SeqScape (Applied Biosystems), has been acquired.
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- Dates (from – to) From 22 April 2006 to 22 May 2006 and from 09 July 2006 to 06 August 2006
 - Institute **Neuropathogenesis Unit (NPU) - Institute for Animal Health (IAH)**
West Mains Rd., Edinburgh EH9 3JF - Scotland UK
Tel.: 0044(0)131 667 5204 e-mail: wilfred.goldmann@bbscr.ac.uk
 - Organization University of Edinburgh
 - Occupation or position held Visiting scientist at the TSE Genetics Laboratory directed by Dr. Wilfred Goldmann in the frame of a collaboration involving NPU and CEA.
 - Research activities During the months at the NPU labs in Edinburgh he has worked in close collaboration with Dr. Goldmann's group, pioneer of the studies regarding animal TSE genetics. In particular, he has focussed to the identification of genetic factors related to resistance/susceptibility to classical and atypical BSEs. This abroad professional experience has allowed to approach to base research in the field of TSE genetics. Moreover, he has gained skills in reverse transcription and SyberGreen-based qPCR. During the stay at NPU he has hold a seminar on the obtained results entitled "PrP Expression Study in BSE and BASE Cattle Using Quantitative PCR Technology".
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- Dates (from – to) From 26 June 2006 to 30 June 2006
 - Institute **National Veterinary Laboratory (NVL)**
J. Kairiukscio 10 LT - 08409 Vilnius, Lithuania
Tel.: +370 5 2780470 Fax.: +370 5 2780471 E-mail: nvl@nvl.lt
 - Organization National Laboratory for Veterinary Diagnostics in Lithuania

- Occupation or position held Participation as expert in TSE genetics in the frame of a collaborative project between Piedmont Region and Lithuania funded by UE for the implementation of Veterinary Services: Twinning Project LT/2004/AG/07 "Strengthening of official control of animal health and food safety through implementation of Veterinary Management System".
- Research activities Theoretical and practical training of personnel of the GMO Department led by Dr. Vaclovas Jurgelevicius on TSE genetics and genotyping methods of sheep PRNP gene. During the stay he has held a seminar entitled "TSE Genetics".
- Dates (from – to) From 11 February 2004 to 30 June 2004
 - Institute **Centro di Referenza per le Encefalopatie Animali (CEA) - Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta**
Via Bologna, 148 - 10154 Torino
Tel.: 011/2686.1, fax: 011/2487770 e-mail: cea.genetica@izsto.it
 - Organization Governmental
- Occupation or position held Grant as DVM at the Lab of Genetics of CEA (Area tecnica Neuroscienze e Genetica), research project: "Fattori genetici, patogenetici e biochimici responsabili della sensibilità/resistenza alle EST" (PRF 2001).
- Research activities He has gained expertise in general genotyping techniques: DNA isolation, PCR, restriction enzyme analysis, PCR, allele-specific amplification, direct sequencing, Pyrosequencing, real-time PCR).
- Dates (from – to) From 01 March 2003 to 29 February 2004
 - Institute **Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER) - Sezione di Milano**
Via Celoria, 12 - 20133 Milano
Tel.: 02/70600153, fax: 02/70635837, e-mail: Milano@bs.izs.it
 - Organization Governmental
- Occupation or position held Contract as consultant at the Immuno-histopathology lab in the frame of the Research Project Ricerca Finalizzata 2001 "Patologia molecolare, propagazione per via orale e terapia sperimentale delle malattie da prioni" (N. Cod. PRF 2001 304).
- Research activities All the activities of the lab and particularly:
 - Management of experimental animals, set up of experimental protocols and forms for symptom recording.
 - Necropsies on experimental animals
 - Preparation of samples for histology and IHC examination
 - Participation to the histological and IHC sample evaluation
- Dates (from – to) From 17 June 2002 to 16 February 2003
 - Institute **Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna (IZSLER) - Sezione di Milano**
Via Celoria, 12 - 20133 Milano
Tel.: 02/70600153, fax: 02/70635837, e-mail: Milano@bs.izs.it
 - Organization Governmental
- Occupation or position held Contract as consultant at the Immuno-histopathology lab in the frame of the Research Project: "Diagnostica differenziale in bovini e ovi-caprini sospetti EST, con particolare riferimento alle patologie di interesse zoonosico" (PRC 2000105).

- Research activities All the activities of the lab and particularly those related to the Research Project:
 - Preparation of samples for histological examination (sample registration, aliquoting, paraffin embedding, cutting and staining)
 - IHC for both routine and research diagnostics
 - Participation to the evaluation of the slides

- Dates (from – to) From 01 January 2002 to 15 June 2002
 - Institute **Eurofiocchi S.p.a.**
Via P. Baldi, 19 - 15013 Borgoratto (AL)
Tel.: 0131/278280, fax: 0131/278544, e-mail: info@eurofiocchi.com
 - Organization Company producing livestock feed
 - Occupation or position held Consultant
 - Research activities Nutritional consultancy for consumers of the company. Formulation of daily food rations and of new products.

- Dates (from – to) From January 2000 to June 2001
 - Institute **Università degli Studi di Torino – Facoltà di Medicina Veterinaria**
Dipartimento di produzioni animali, epidemiologia ed ecologia – Settore Malattie Infettive
Via L. Da Vinci, 44 – 10095 Grugliasco (TO)
Te.: 011/6708681, fax: 011/6708682, e-mail: presidenza@veter.unito.it
 - Organization University – Infectious Disease Department
 - Occupation or position held DVM thesis
 - Research activities Experimental thesis entitled “Espressione della glicoproteina 53 (gp53) di *Bovine Viral Diarrhea Virus* (BVDV) in sistemi procarioti ed eucarioti” tutor Prof. Sergio Rosati. Expression of the gp53 of BVDV in *E. coli* e insect cells by recombinant *baculoviruses*. Training on other methods as: PCR, ELISA, Western Blotting, IF, cell lines, protein electrophoresis.

3. EDUCATION AND TRAINING

- Dates (from – to) From January 2009 to February 2012
 - Name and type of organisation providing education and training University of Milan
Faculty of Veterinary Medicine
 - Title of qualification awarded PhD in “**Biotechnologies Applied to the Veterinary and Zootechnical Sciences**”

- Dates (from – to) From December 2003 to July 2006
 - Name and type of organisation providing education and training University of Turin
Faculty of Veterinary Medicine
 - Title of qualification awarded **Specialization School in “Animal Health, Breeding and Zootechnical Production” (70/70 cum laude)**
Thesis: “Caratterizzazione e studio comparativo del gene della proteina prionica (*PrP*) di mammiferi marini mediante analisi molecolari e bioinformatiche”

- Dates (from – to) From October 1994 to July 2001

- Name and type of organisation providing education and training
- Title of qualification awarded

University of Turin
 Faculty of Veterinary Medicine
Degree in Veterinary Medicine (110/110 *cum laude*)

4. PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

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| | ENGLISH |
| • Reading | ADVANCED |
| • Writing | ADVANCED |
| • Speaking | ADVANCED |

5. COMPUTER SKILLS

Knowledge of Windows/Linux operating systems and common Microsoft applications (Word, Excel, Publisher, Powerpoint). Use of Internet and of electronic mail software (Microsoft Outlook, Outlook Express). Use of software for phylogenetic analysis and phylogeography: MEGA, BEAST, SimPlot, etc.

6. INTERNATIONAL PUBLICATIONS

Author of more than 100 abstracts presented at national and international conferences as poster or oral presentations.

Author of more than 70 publications on peer-reviewed journals with Impact Factor:

Turin, 13 November 2019