

PERSONAL INFORMATION

Luciana Rossi



Department of Health, Animal Science and Food Safety
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Sex Female | Date of birth 01 September 1973 | Nationality Italian

Main research fields: By-product and innovative additives in animal nutrition; environmental sustainability of livestock; Medical molecular farming and genetically modified plants; Biotechnologies; Nutraceuticals and nutrigenomic in food and feed; Cell-based bioassays.

WORK EXPERIENCE

01/10/2012 – Present **Researcher at the Department of Health, Animal Science and Food Safety, Università degli Studi di Milano, Milan (Italy).**

COURSES TAUGHT OR DEVELOPED

-Disciplines taught for the Degree Course in Veterinary Medicine, a second-level degree: 2012-2013: “Companion Animals Feeding” is a course of 32 hours integrated in the main discipline “Companion animals: Feeding, Management and Care” (H08-104-C)”, focalized of the guidelines for feeding strategies to enhance dogs and cats health. Definition of optimal diets as therapeutical approach for main diseases.

-Disciplines taught for the Degree in Animal Husbandry Sciences and Technologies, a second-level degree: 2014-2015: “Ration formulation of monogastrics” integrated in the main discipline Ration formulation for animal production.

-Disciplines taught for the Degree Course for Animal Husbandry and Welfare degree and Animal Husbandry Technologies and Product Quality, first-level degrees. 2013-2014/ 2014-2015: “Perinatal Nutrition” is a course focalized on the major strategies to provide appropriate elements to enhance health and growth of animal neonates through a nutritional approach during the first life stage. 2013-2014: “Feed: qualification, sustainability and functionality” integrated in the main discipline “Animal nutrition and Feeding” .

-Discipline for Specialisation Schools of animal Nutrition: 2014-2015: Interactions between the nutrition and health status in ruminant animals; economical aspects related to ruminant nutrition

Discipline for doctoral school of Nutritional Science:

2014: "Edible vaccine"

Referent for PhD program of "Animal Feed and Food Safety" of the Doctoral School of Veterinary Sciences for Animal Health and Food Safety.

EDITING

-Cofounder, section and managing Editor of the International Journal of Health, Animal Science and Food Safety (HAS), an open access journal of the Università degli Studi di Milano, on the OJS platform, strictly connected with the Department VESPA. <http://riviste.unimi.it/index.php/haf> ISSN 2283-3927 .

From 2013 to actually I'm in the Editorial board of Research Opinions in Animal & Veterinary Science" ISSN 2221-1896. Impact factor: 0.166.

www.roavs.com

PUBLIC ENGAGEMENT

ScienzaAttiva® is a national project that represents an innovative tool for education and scientific citizenship that involves high school classes from all over Italy. Designed by the University Centre Agora Science, it is part of the actions to define a new relationship between science and society, in line with the objectives of the third mission of the University. The project is well described and explained at the following link:

<http://www.scienzattiva.eu/progetto/> .

Scientific dossier of 30 pages on the use of plants as bioreactors for biopharmaceuticals. http://www.scienzattiva.eu/wp-content/uploads/2014/10/STSQ_C_Piante-bioreattori-medicina_ROSSI.pdf
Scienzattiva <https://www.youtube.com/watch?v=QmoV6zjORfo>

PROJECTS

-VACCINI ORALI SUINO, funded by Miur Regione Lombardia

Responsible scientist: prof. Antonella Baldi

Principal investigator and Responsible of experimental procedure on animals: dott. Luciana ROSSI, according to ethics clearances from "DIREZIONE GENERALE DELLA SANITA' animale e dei farmaci veterinari, Ufficio VI, MINISTERO della Salute" prot. 102/2015, according to the principles of the 3 Rs of animal testing (replacement, reduction and refinement).

-STUDIO DEGLI EFFETTI DELL'ESPRESSIONE DI GENI BATTERICI SULLA GERMINAZIONE DI SEMI DI NICOTIANA TABACUM

Responsible scientist/principal investigator: dott. Luciana ROSSI

Funded by "FONDO PIANO DI SVILUPPO LINEA B, Università degli Studi di Milano with respect to Nicotiana tabacum wild type (WT).

Principal investigator in different *in vivo* and *in vitro* studies publicly-funded and also funded by Small Medium Enterprises.

Included in EFSA's Expert database.

Delegated from the head of the Department VESPA for the open access policy.

**From 01/11/ 2006
to 30/10/2012**

Post doc fellow researcher

Department of Veterinary Science and Technology for Food Safety, University of Milan, Milan (Italy)

Honorary teaching fellow in Animal Nutrition at Vet. Med. Faculty, University of Milan.

Principal investigator in a project entitled "Evaluation EVALUATION OF INNOVATIVE ZINC ADDITIVE ACTIVITY ON INTESTINAL CELL LINE" commissioned by a private company.

Principal investigator in a study focalized on the evaluation of tobacco seed cake by-product as alternative source of protein in pig.

Principal investigator in 4 field trials commissioned by international feed-additives companies in order to register a new feed additives.

Principal investigator and coordinator of scientific activities of four companies (Plantechno srl, FATRO spa; Biotrack srl; FERRARONI spa) related to a project entitled "Plants as edible vaccines against enteric disease of pigs" (funding by Regione Lombardia ID 4053). Produced the scientific report.

Veterinarian consultant for the research on food safety with different SME Biotrack srl (Lodi, Italy), Incura srl (Lodi, Italy) and Plantechno (Vicomoscano, CR, Italy) and Studies related to quality and hygiene of milk and the safety of dairy products.

**From 07/01/ 2003
To 05/07/2006**

Product manager

Farmaceutici Gellini s.r.l c/o Intervet, Peschiera Borromeo- Mi (Italy)

Responsible for pharmaceutical market analysis of a portfolio of 50 drugs .

Definition marketing strategy and collaboration with sales management to align objectives. Contacts with national and international opinion leaders.

Planning of the advertising, gadgets, technical and scientific papers.

Organization of scientific congresses (CME events), with international speakers, focused on important animal and human diseases: Dermatophytosis (Piacenza, April 2004) and Clostridiosis (Piacenza, April 2005) and of quarterly canvass with field force and regional commercial meeting weekly.

Veterinary technical support to sales force in field on the national territory.

**From 01/11/1999
to 06/12/2002**

PhD work

Department of Veterinary Science and Technology for Food Safety University of Milan, Milan (Italy)

PhD period focused on the experimental construction genetically modified tobacco plants with seed-specific expression of antigenic proteins against Oedema disease and Salmonella typhimurium, as edible vaccines. Tobacco seeds were also evaluated in vivo on mouse model.

From 2000 to 2001: stage in the genetic laboratory of Prof. Corrado Fogher at Catholic University. Institute of Agronomy, Genetics and Field Crops. Via Emilia Parmense, 84. 29100 Piacenza, Italy.

In 2001: 6 months stage at the Plantechno srl, a plant biotechnology company.

Biotechnology laboratory of VSA of Milan: Studies on in vitro models (BME-UV1 cell line) and on the evaluation of GMOs in feed and in food (PCR).

EDUCATION AND TRAINING

01 December 1999 – 06 December 2002	PhD in Biotechnology applied to veterinary and zootechnical sciences Department VSA, Medicine Faculty, University of Milan., Milan (Italy) Rating: Excellent. Thesis: "Expression of bacterial recombinant proteins in tobacco seeds as a model of edible vaccines". Tutor: Prof. Antonella BALDI
01 January 2000 – Present	Enrolment in the professional association of Veterinarians association of Veterinarians of Milan
1999	Licence to practice and professional specialities: Veterinarian qualification University of Milan
09 March 1999	Degree in Veterinary Medicine Department VSA, Veterinary Medicine Faculty, University of Milan., Milan (Italy) Rating: 110/110 Thesis: Evaluation of blood parameters, markers of stress, in piglets weaned at 21 and 28 days. Tutor: Prof. Giovanni Savoini

REFEREED FULL JOURNAL ARTICLES PUBLISHED

- 1) L. Pinotti, E. Fusi, R. Rebucci, L. Rossi, A. Baldi. (2002). Methods to detect and identify GMO products in feeds. *Tecnica molitoria*. Marzo 2002: 235-244. ISSN: 0040-1862
- 2) F. Cheli, I. Politis, L. Rossi, E. Fusi and A. Baldi. (2003) Effects of retinoids on proliferation and plasminogen activator expression in a bovine mammary epithelial cell line. *Journal of Dairy Research*. 2003, 70:367-372. ISSN022-0299, IF:1.209.
- 3) L. Pinotti, L. Rossi, R. Rebucci, V. Dell'Orto and A. Baldi. (2003) The safety of GM crops. Evaluation criteria (part 1). *Tecnica Molitoria*. 2003: 38-45. ISSN: 0040-1862
- 4) L. Pinotti, R. Rebucci, E. Fusi, L. Rossi and A. Baldi. (2003) Milk coline α -tocopherol and neutrophil chemotaxis in the periparturient dairy cow. *Veterinary research communications*, 27 suppl. 1(2003):265-268. ISSN: 0165-7380, IF:0.669
- 5) F. Cheli, L. Rossi, C. Pecorini, R. Rebucci, E.Fusi. (2003). Administration of biogenic amines to saanen kids: effects on grow performance and meat quality. *Italian Journal of Animal science*, 2 (suppl.1) 539-541, 2003. ISSN:1594-4077.
- 6) L. Rossi, S. Reggi, A. Di Giancamillo, C. Domeneghini, L. Pinotti, C. Fogher, A. Baldi. (2003). Oral administration of tobacco seeds expressing antigenic proteins in mice balb-c: a model of edible vaccines for edema disease. *Italian Journal of animal science*. 2003;2, suppl 1: 7-9. ISSN:1594-4077.
- 7) L. Rossi, A. Baldi, V. dell'Orto and C. Fogher. (2003). Antigenic recombinant proteins expressed in tabacco seeds as a model for edible vaccines against swine oedema. *Veterinary Research Communication*, 27 suppl. 1(2003):659-661. ISSN:0165-7380 IF 0.669.
- 8) E. Fusi, L. Rossi, R. Rebucci, F. Cheli, A. Di Giancamillo, C. Domeneghini, L. Pinotti, V. Dell'Orto, A. Baldi. (2004). Administration of biogenic amines to saanen kids: effects on grow performance, meat quality and gut histology. *Small Ruminant research* 53 (2004):1-7. ISSN:0921-4488, IF 0.606 .
- 9) G. Papparini, E. Olzi, L. Rossi, F. Mancianti, S. Nardoni, S. Cavirani. Experience of vaccination to trichophytosis in the ANAFI Genetic Center (National Association of Italian Holstein Friesian Breeders; Lombardy) *Buiatria* 2006, 2:73-78. ISSN: 1828-4078.
- 10) L. Rossi, G. Selmini, F. Cheli, E. Fusi, C. Fogher. (2007) Possibile impiego di pannello di seme di tabacco nell'alimentazione del suinetto. *Large Animal Review* 13:211-215. ISSN:1124-4593 IF 0.154.
- 11) E. Fusi , R. Rebucci , C. Pecorini , L. Rossi , F. D'Ambrosio , A. Baldi. (2008). Evaluation of the damage induced by ochratoxin A and the protective role of α -tocopherol in cultured bovine mammary epithelial cells. *Vet Res Commun* 32 (Suppl 1):S343–S345. ISSN 0165-7380. IF 0.630.
- 13) E. Fusi, F. Cheli, R. Rebucci, C. Pecorini, F. Galante, L. Rossi, L. Pinotti, A. Baldi. (2009). Role of alphotocopherol in counteracting DNA damage induced by Ochratoxin A in primary porcine fibroblasts. In: *Italian Journal of Animal Science*. - ISSN 1594-4077. - EISSN 1828-051X. - 8:Suppl. 2(2009): 301-303, IF 0.139.
- 14) L. Rossi, F. Galante, E. Fusi, M. Luini, V. Dell'Orto, A. Baldi. (2009). Evaluation the of PL-PG-PA system in relation to quality of bovine milk. *Vet Res Commun* (2009) 33 (Suppl 1):S293–S295. ISSN:0165-7380, IF 1.05.
- 15) I. Dragoni, C. Balzaretto, S. Rossini, L. Rossi*, V. Dell'Orto, A. Baldi. (2011). Detection of Hen Lysozyme on Proteic Profiles of Grana Padano Cheese through SELDI-TOF MS High-Throughput Technology during the Ripening Process. *Food Anal. Methods*. 4:233-239. ISSN: 1936-9751; IF 1.932 (*corresponding author).
- 16) L. Rossi*, S. Vagni, C. Polidori, G.L. Alborali, A. Baldi, V. Dell'Orto. (2012). Experimental induction of *Escherichia coli* diarrhoea in weaned piglet. *Open Journal of Veterinary Medicine*, 2: 1-8; ISSN Print: 2165-3356, ISSN Online: 2165-3364 doi:10.4236/ojvm.2012. 21001. *corresponding author.ORIGINAL

ARTICLE. CABI. Cited: 2

17) L. Rossi*, F. Mancianti, S. Nardoni, E. Sfondrini, M. Luini. (2012) Indagine sulla dermatofitosi in allevamenti bovini del Nord Italia. Survey on bovine dermatophytosis in northern Italy. Large Animal Review ISSN:1124-4593. IMPACT FACTOR: 0.154; *corresponding author .ORIGINAL ARTICLE.

18) L. Rossi*, A. Baldi, V. Dell'Orto, S. Reggi, C. Fogher (2012) Expression of flgk flagellin from Salmonella Typhimurium in tobacco seeds .IOSR Journal of Pharmacy ISSN: 2250-3013,2,5, Sep-Oct: 19-22. ORIGINAL ARTICLE. *corresponding author.

19) L. Rossi*, A. Di Giancamillo, S. Reggi, C. Domeneghini, A. Baldi, V. Sala, V. Dell'Orto, A. Coddens, E. Cox, C. Fogher. "Expression of porcine verocytotoxic Escherichia coli antigens in tobacco seeds and evaluation of gut immunity after oral administration in mouse model" Journal of Veterinary Science 2013, Sep;14(3):263-270. IMPACT FACTOR: 1.142. *corresponding author ORIGINAL ARTICLE Cited:3

20) L. Rossi*, E. Fusi, G. Baldi, C. Fogher, F. Cheli, A. Baldi, V. Dell'Orto. Tobacco Seeds By-Product as Protein Source for Piglets. *corresponding author .Open Journal of Veterinary Medicine, 2013, 3, 73-78. ORIGINAL ARTICLE. Cited:2

21) Cheli F., Pinotti L., Rossi L., Dell'Orto V. 2013. Effect of milling procedures on mycotoxin distribution in wheat fractions : a review / F. Cheli, L. Pinotti, L. Rossi, V. Dell'Orto. - In: Lebensmittel-Wissenschaft und Technologie = Food science and technology. - ISSN 0023-6438. - ISSN 1096-1127. 54 (2) : 307-314. IMPACT FACTOR:2,468. review Cited:6

22) L. Rossi*, L. Pinotti, A. Agazzi, V. Dell'Orto, A. Baldi. Plant bioreactors for the antigenic hook-associated flgK protein expression. Italian Journal of animal science . Italian Journal of Animal Science. (2014) 13 (1), pp. 23-29. *corresponding author. IMPACT FACTOR:0,789. ORIGINAL ARTICLE. Cited:0

23) L. Rossi*, V. Dell'Orto, S. Vagni, V. Sala, S. Reggi, A. Baldi. Protective effect of oral administration of transgenic tobacco seeds against verocytotoxic Escherichia coli strain in piglets. Veterinary Research Communication. Veterinary Research Communications. 2014 38 (1), pp. 39-49. *corresponding author. IMPACT FACTOR: 1.364; ORIGINAL ARTICLE. Cited:2.

24) Zaninelli M., Rossi L., Tangorra, F.M., (...), Agazzi, A., Savoini, G. On-line monitoring of milk electrical conductivity by fuzzy logic technology to characterise health status in dairy goats Authors of Document. 2014. Italian Journal of Animal Science. 13 (2), pp. 340-347. IMPACT FACTOR:0,789; ORIGINAL ARTICLE Cited:2

25) L. Rossi, Fusi E., M. Boglioni, C. Giromini, R. Rebucci, A. Baldi. Effect of Zinc Oxide and Zinc Chloride on Human and Swine Intestinal Epithelial Cell Lines. Int. J. of Health, Animal science and Food safety 2 (2014) 1-7. ORIGINAL ARTICLE.

26) M. Zaninelli *, A. Costa , F.M. Tangorra , L. Rossi , A. Agazzi, G. Savoini (2015) Preliminary Evaluation of a Nest Usage Sensor to Detect Double Nest Occupations of Laying Hens. Sensors 2015, 15(2), 2680-2693; doi:10.3390/s150202680. IMPACT FACTOR:3.840. ORIGINAL ARTICLE Cited:0

27) M. Zaninelli, L. Rossi*, A. Costa, F.M. Tangorra, A. Agazzi, G. Savoini. 2015 Large Animal Review ISSN:1124-4593. Monitoraggio dello stato di salute delle capre attraverso l'analisi on-line della conducibilità elettrica del latte*corresponding author. IMPACT FACTOR: 0.154; ORIGINAL ARTICLE; Cited:0

28) M. Zaninelli, L. Rossi, A. Costa, F. M. Tangorra, A. Agazzi, G. Savoini. Signal spectral analysis to characterize gland milk electrical conductivity in dairy goats. 2015. Italian Journal of Animal Science. 13 (2), pp. 340-347. IMPACT FACTOR:0,789; ORIGINAL ARTICLE Cited:0

Editorials published

L.Rossi, B. Tonini, V.Bontempo. Gestione nutrizionale delle patologie endocrine e metaboliche del cane e del gatto. supplemento al n. 894 - settimana dal 6 al 12 novembre 2014. La settimana Veterinaria.

L.Rossi. Le biotecnologie riscrivono in chiave moderna l'uso delle piante medicinali. 23 luglio 2014.
http://www.intersezioni.eu/?objselected=710&scheda=view_articolo ; Intersezioni; Biotecnologie. 50.