



## **CURRICULUM VITAE- Prof. Antonella Baldi**

### **Personal information**

Position: Full Professor in Animal Nutrition. University of Milan. Department of Health, Animal Science and Food Safety.

### **Career**

2000-present. Full professor in Animal Nutrition at University of Milan

1992-2000 Associate Professor in Animal Nutrition - University of Milan

1986-1992 Researcher at University of Milan, Faculty of Veterinary Medicine

1983-1986 Laboratory Assistant at the Institute of Animal Husbandry, University of Milan

In 1992 she was visiting researcher at the Department of Animal Science, Cornell University, Ithaca, NY, USA

In 1995 and 1996, she was visiting scientist at the Department of Animal and Food Sciences, Vermont University, Burlington, USA.

### **Teaching activity**

Since 1992 she has given courses on Animal Nutrition and Animal Clinical Dietetics at the Veterinary Faculty, University of Milan. In particular she gives courses of Animal Nutrition in: Bachelor degree in Biotechnology; and Master Degree in Veterinary Biotechnology Sciences and in Animal Sciences

### **Offices held at University of Milan**

Chairperson of Bachelor and Master Degree Programmes in Veterinary Biotechnology at the University of Milan (2011-2017)

Member of International Relationship Commission of the University of Milan (2010-2012).

University of Milan Coordinator of the Erasmus Mundus MSc study program "Food of Life",

Board Member of PhD School in "Animal Health and Husbandry Sciences and Biotechnology".

She was co-founder of a spin-off of the University of Milan: Biotrack.

### **National and International commitments**

- Council member of EAAP (European Federation of Animal Science)
- Member of the Board of Italian Animal Science and Production Association (ASPA)
- Member of European Research Council (ERC) Peer Review LS-9 Panel (2010- 2015)
- Italian Delegate in the COST Domain Committee "Food and Agriculture" (2006- 2014)

2000-2005: Member of European Association for Veterinary Education (EAEVE) Commission

Expert assessor for the following Funding Agencies and Academic Commissions: Italian Research and University Ministry, Danish Council of Research, Slovenian Research Agency, Irish Research Council for Science.

**Journal Boards:** 2006- 20116 Section Editor of Animal Journal

2000-2006. Editorial board of Small Ruminant Research.

### **Honors and Awards**

Hannah Research Institute Honorary Fellowship, Ayr, UK.

N.A.T.O. Senior Fellowship on Lactation Biology

### **Research activity**

She has published about 150 publications ( see Archivio Istituzionale delle Ricerca dell'Ateneo di Milano since 1999 [<http://air.unimi.it/>]). Bibliometric index: Scopus h\_index: 19.

Main research interest

She has studied the role of nutrition and welfare on animal health and in the production of high quality and healthy food of animal origin. She has investigated how some nutrients, as vitamins, trace elements and PUFA, can positively affect animal health. She has performed several studies on the biological mechanisms of several food and feed bioactive substances in stimulating growth and immune response in the neonate.

### **Funded projects (since 2000)**

2000. Nutritional Strategy for counteracting mycotoxin-induced damages: in vitro cytotoxicity studies. PRIN Italian Ministry of Research. Unit PI

2001-2006. Cost Action B20: Mammary Gland Function, Development and Cancer. Chairwoman.

2003. Evaluation of Ochratoxin mechanism of action and protective roles of nutraceuticals at cellular level. PRIN Italian Ministry of Research. Unit PI

2005. Evaluation of the damages induced by Deoxyniavlenol and Ochratoxin A in cel culture system in relation to antioxidant for prevention. PRIN Italian Ministry of Research. Unit PI

2006-2010 Processed Animal Proteins. EU Project FOOD-CT-2006-036221-SAFEED-PAP. Investigator

2007. Evaluation of the cytotoxic and pro-inflammatory effects of Ochratoxin A and Fumonisin B1 and the protective role of antioxidant compound. PRIN Italian Ministry of Research. Unit PI

2007. Sensor Arrays for Metabolites Analyses in the Rumen of Cattle. Private Sponsor Cariplo Foundation. Unit PI

2008. Study of the transport of recombinant porcine lactoferrin in mammary and intestinal epithelial cells. Italy-France bilateral Galileo project with INRA, UR1196 Génomique et Physiologie de la Lactation, 78352 Jouy-en-Josas cedex. Principal Investigator

2009. BIOVAPRO Evaluation of species-specific lactic acid bacteria for veal calves multistrain probiotic adjuncts. Financed by Regione Lombardia - Agricultural Department. Unit PI

2011 "Oral Vaccine in pig" 2011 Regione Lombardia Research and Development Project.

2012

2015 Food and Feed for wellbeing - Principal Investigator supported by Italian Ministry of Agriculture.

2016 BPL

#### **List of relevant publications ( since 2010)**

Giromini C., Baldi A., Fusi E., Rebucci R., Purup S. Effect of growth factors, estradio 17- $\beta$  and short chain fatty acids on the intestinal HT29-MTX cells. (2015) *Cell. Biol. Toxicol.* 31: 199-209

Rossi L., L. Pinotti, A. Agazzi, V. Dell'Orto, A. Baldi. Plant bioreactors for the antigenic hook-associated flgK protein expression. (2014) *Ital J Anim Sci.*13:23-29

Rossi L., 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 (2013) *Journal of Veterinary science.* -14(3): pp. 263-270.

Baldi, A., Pecorini, C., Rebucci, R., Saccone, F., Cheli, F., Miranda-Ribera, A., Lecchi, C., Cecilian, F. Effect of Escherichia coli lipopolysaccharide on u-PA activity and u-PA and u-PAR RNA expression in a bovine mammary epithelial cell line. (2012) *Res Vet Sci.* 93(2):758-62.

Politis I., G. Theodorou, A.D. Lampidonis, A. Kominakis, A. Baldi Oxidative status and incidence of mastitis relative to blood  $\alpha$ -tocopherol concentrations in the postpartum period in dairy cows (2012) *Journal of dairy science.* 95 (12): pp. 7331-7335.

Rossi, L., Vagni, S., Polidori, C., Loris Alborali, G., Baldi, A., Dell'Orto, V. Experimental Induction of Escherichia coli Diarrhoea in Weaned Piglets (2012) *Open Journal of Veterinary Medicine*, , 2, 1-8 [doi:10.4236/ojvm.2012.21001] Published Online March 2012

Politis, I., Theodorou, G., Lampidonis, A.D., Chronopoulou, R., Baldi, A. Soya protein hydrolysates modify the expression of various pro-inflammatory genes induced by fatty acids in ovine phagocytes. (2011) *Br J Nutr.* 15: pp.1-10.

Lampidonis, A.D., Theodorou, G., Pecorini, C., Rebucci, R., Baldi, A., Politis, I. Cloning of the 5' regulatory regions and functional characterization of the core promoters of ovine PLAU (u-PA) and SERPIN1 (PAI-1) (2011) *Gene*, 489 (1), pp. 11-20.

Baldi A., R. Bruckmaier, F. D'Ambrosio, A. Campagnoli, C. Pecorini, R. Rebucci, L. Pinotti. Rumensupplemented choline supplementation in periparturient dairy goats : effects on liver and mammary gland. (2011) *Journal of Agricultural Science*, 149 (5), pp. 655-661,

Cheli, F., Baldi, A. Nutrition-Based Health: Cell-Based Bioassays for Food Antioxidant Activity Evaluation (2011) *Journal of Food Science*, 76 (9), pp. R197-R205.

Theodorou, G., Pecorini, C., Rebucci, R., Saccone, F., Lecchi, C., Politis, I., Baldi, A. Effect of growth factors and lactogenic hormones on expression of plasminogen activator-related genes and cell proliferation in a bovine mammary epithelial cell line (2011) *Journal of Dairy Research*, 78 (3), pp. 365-372.

Dragoni, I., Balzaretto, C., Rossini, S., Rossi, L., Dell'Orto, V., Baldi, A. Detection of Hen Lysozyme on Proteic Profiles of Grana Padano Cheese through SELDI-TOF MS High- Throughput Technology during the Ripening Process (2011) *Food Analytical Methods*, 4 (2), pp. 233-239.

Pinotti, L., Polidori, C., Campagnoli, A., Dell'Orto, V., Baldi, A. A meta-analysis of the effects of rumen protected choline supplementation on milk production in dairy cows (2010) *EAAP Scientific Series*, 127 (1), pp. 321-322.

Theodorou, G., Daskalopoulou, M., Chronopoulou, R., Baldi, A., Dell'Orto, V., Politis, I. Acute mastitis induces upregulation of expression of plasminogen activator-related genes by blood monocytes and neutrophils in dairy ewes (2010) *Veterinary Immunology and Immunopathology*, 138 (1-2), pp. 124-128.

Fusi, E., Rebucci, R., Pecorini, C., Campagnoli, A., Pinotti, L., Saccone, F., Cheli, F., Purup, S., Sejrsen, K., Baldi, A. Alpha-tocopherol counteracts the cytotoxicity induced by ochratoxin a in primary porcine fibroblasts (2010) *Toxins*, 2 (6), pp. 1265-1278.

Pecorini, C., Sasseria, D., Rebucci, R., Saccone, F., Bandi, C., Baldi, A. Evaluation of the protective effect of bovine lactoferrin against lipopolysaccharides in a bovine mammary epithelial cell line (2010) *Veterinary Research Communications*, 34 (3), pp. 267-276.

Savoini, G., Agazzi, A., Invernizzi, G., Cattaneo, D., Pinotti, L., Baldi, A. Polyunsaturated fatty acids and choline in dairy goats nutrition: Production and health benefits (2010) *Small Ruminant Research*, 88 (2-3), pp. 135-144.