

FABIO PALMIRO ABENI
CURRICULUM VITAE

Name: **Fabio Palmiro**

Surname: **Abeni**

Birth: **11.12.1964 Cremona (Italy)**

University education: **Agricultural Science (zootechnical), 5 years, score 110/110 e lode**, Università degli Studi di Milano

Professional: **Qualification to the professional practice of Agronomist Doctor** (II session 1990), Università degli Studi di Milano

Living address: **via Palestro 5, 26100 Cremona, Italy**

Current professional profile and level: **Senior researcher**

Institution: **CREA Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria (Council for Agricultural Research and Economics) – Via Po 14, 00198 Roma, Italy**

Department: **Centro di ricerca Zootecnia e Acquacoltura (Research Centre for Animal Production and Aquaculture), Sede di Lodi – Via Antonio Lombardo 11, 26900 Lodi, Italy**

Tasks and responsibilities

Responsible of the Laboratory of Biological and Clinical Chemistry, formerly Laboratory of Animal Physiology, of CREA-ZA Lodi (since 19/12/2008)

Responsible of the Research Team on Experimental Zootechnics and Livestock Precision Farming at Research Centre for Animal Production and Aquaculture at CREA in Lodi (since 04/11/2015)

Research

01.07.1992-31.07.1996 Azienda Sperimentale "Vittorio Tadini", Gariga di Podenzano, Piacenza, Italy (professional collaboration contract). During this period, my activity focused on the following issues:

-dairy cow welfare, paying particular attention to the problems related to heat stress physiology of lactating cattle, and the possible nutritional and feeding strategies to face it

-dairy cow feeding and milk quality, paying particular attention to the forage basis of the ration and with the aim to improve milk quality for cheese-making; use of bacteria and enzymes-based inoculum on forage ensiling

-physiology and nutrition of dairy replacement heifer in Italian Friesian breed, emphasizing the role of dietary nutritive level during growth and at first breeding.

August 19, 1996 – present. Researcher, Istituto Sperimentale per la Zootecnia, Sezione di Torino; since January 2, 2001 at Section of Cremona (same Institute), now Centro di ricerca Zootecnia e Acquacoltura (Research Centre for Animal Production and Aquaculture), CREA-ZA sede di Lodi.

Partecipazione in CREA research projects (11 as responsible of operative unit)

6 projects on environmental aspects (climate, housing, feeding) affecting animal welfare, productive and reproductive efficiency in dairy, double purpose, and beef cattle

5 projects on automatic milking of dairy cow (animal welfare, physiology, milk quality for cheese-making)

4 projects on heifers of dairy and double purpose breeds (feeding, successive production and reproduction)

4 projects on rabbit production (genetics, reproduction, growth, meat quality assessment by NIRS)

3 projects on swine (colostrum, nutrition, physiology)

2 projects on dairy cattle genetics to improve health in critical transition phases (hematology, metabolism)

2 projects on mycotoxin problem management and its implication in dairy cattle

2 projects on animal nutrition and its implications for environmental impact

2 projects on informatics and environmental aspects of animal farming

1 project on dairy cow nutrition in the transition phase (hematology, metabolism, reproduction)

1 project on animal welfare and physiology in cloned cattle progeny (pregnancy, newborn)

1 project on cattle feeding and cheese quality

1 project on veal calves production

Periods as Visiting Scientist

April-May 2010. Guest of the Department of Veterinary Physiology, University of Bern (CH), where he followed the activities of the group of Prof. Rupert Bruckmaier on the relationship between metabolism and alteration of the immune response in dairy cattle, applying both ELISA analysis techniques, both techniques of RNA extraction and gene expression, with particular reference to somatic cells of the milk.

Teaching and tutorial activities

A total of 50 hours for breeder associations, high technical schools, short-courses for professional upgrading, and universities. Main topics: animal welfare; cattle physiology and nutrition during growth, pregnancy and lactation; robotic milking management; mycotoxins and dairy cattle.

3 Tutor of research grant (CREA, Cremona)

1 Tutor corporate internships, Degree in Agricultural Science and Technology at the Università Cattolica del Sacro Cuore (Piacenza campus)

Scientific panels

May 2005 – May 2006. Associazione per la Scienza e le Produzioni Animali (ASPA) [*Animal Science and Production Association (Italy)*]: Member of the Study Panel on “Criteria and Methods for the Animal Welfare Assessment”.

October 2014 – today. Associazione per la Scienza e le Produzioni Animali (ASPA) [*Animal Science and Production Association*]: Member of the Study Panel on “Adaptability of livestock systems to climate change”.

Scientific and technical publications

Author of **175** publications in international scientific journals, scientific and technical national journals, international and national congresses proceedings.

Reviewer for international scientific journals

Italian Journal of Animal Science; Journal of Dairy Research; Journal of Dairy Science; BMC Physiology; BMC Veterinary Research; Chronobiology International; Journal of Applied Animal Research; Sensors & Actuators: B. Chemical; Tropical Animal Health and Production; Journal of Agricultural Science (Cambridge); International Journal of Biometeorology; PLoS ONE; Animal Production Science; Annals of Animal Science; Livestock Science.

Reviewer for PhD thesis

Scuola dottorato AgriSystem, Università Cattolica del Sacro Cuore – Italy

Universidad de Las Palmas de Gran Canaria – Spain

Reviewer for grants and projects funding

Università degli Studi di Bari “Aldo Moro” – Italy

Membership of scientific societies

Società Agraria di Lombardia; Società Italiana di Scienze Veterinarie (SISVet); Associazione per la Scienza e le Produzioni Animali (ASPA) [*Animal Science and Production Association (Italy)*]; American Society of Animal Science (ASAS).