

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name
Address
Telephone
Fax
E-mail
Personal Web site
Gender
Marital status
Nationality
Date of birth

MARIA LAURA BACCI

WORK EXPERIENCE

- Dates
- Occupation or position held
- Dates
- Occupation or position held
- Dates
- Occupation or position held
- Dates
- Occupation or position held
- Dates
- Occupation or position held
- Dates
- Occupation or position held
- Name and address of employer
- Type of business or sector

October 29th 2018

Member of ASN – qualification Committee 2018 -2020 for 07/H1 “Settore Concorsuale” Ministry of University

October 10th 2018

President of Scientific Committee of SISVET, Italian Society of Veterinary Sciences

May 3rd 2018 –May 2nd 2021

Vice Director DIMEVET - Ozzano dell'Emilia

November 2nd 2015 – 1st 2018

Vice Dean of School of Agriculture and Veterinary Medicine - Ozzano dell'Emilia

September 15th 2014

Full Professor, Academic discipline: VET/02 Veterinary Physiology

NOVEMBER 1998 – SEPTEMBER 2014

Associate Professor, Academic discipline: VET/02 Veterinary Physiology

November 1990 - October 1998

DVM, PhD, Assistant Professor, Academic discipline: VET/02 Veterinary Physiology

Dept. of Veterinary Medical Sciences (DIMEVET) (certified ISO 9001:2008; competent organizations art. 36 of the EFSA Founding Regulation). Via Tolara di Sopra 50. 40064, Ozzano Emilia. Alma Mater Studiorum, University of Bologna, **UNIBO**, ITALY.

University:

- a) **Institutional Responsibility:** ASN Member, Vice Director DIMEVET; Vice Dean of School of Agriculture and Veterinary Medicine; Member of School Joint Teacher-Student Committee.
- b) **Research** in the field of Veterinary Physiology, Animal Welfare and Biotechnologies, Animal Transgenesis, Research and Development of Swine Models for Translational Medicine
- c) **Teaching** in the field of Veterinary Physiology, Animal Welfare and Biotechnologies.
- d) **Fund raising and third mission**

• Main activities and responsibilities

Academic responsibility (all aspects of teaching, supervision of dissertations and examining) of many courses since 1994 of these topics.

Veterinary Physiology and Endocrinology (Physiology of Domestic Animals; Physiology of Animal Nutrition; Physiology of Reared Teleosts; Physiology of Animal Reproduction; Physiology of Farm Animals; Physiology of Reproduction in Domestic Animals; Endocrinology of Domestic Animals; Veterinary Physiology (NCS, Blood, Digestive function), Physiology applied to animal food inspection).

Adaptation physiology and welfare of reared animals (Adaptation Physiology of Domestic Animals; Animal adaptation to the environment and welfare; Animal welfare and environmental adaptation)

Reproductive Biotechnology (Veterinary Biotechnology: Physiological Aspects; Biotechnologies applied to animal reproduction; Reproductive physiology and transgenesis; Physiology and biotechnologies applied to reproduction).

Academic tutor for PhD students;

Head of the departmental unit ASA: Allevamento e Sperimentazione Animale (Breeding and Animal Experimentation);

Member of the Ethical and Scientific Committee on Animal Experimentation of the University of Bologna (2008-2015)

Funds raising from national and international public or private institutions;

Scientific coordinator for :

2010 competitive grant Fondazione del Monte Bologna e Ravenna: Identificazione di target molecolari per l'inibizione dell'iperplasia della neointima vascolare (12 months).

2005 competitive grant PRIN-MIUR (Italian Ministry of Instruction, University and Research): "Genomic and proteomic approaches to evaluate physiological and physio-pathological response to hypoxic condition" (24 months).

2003 competitive grant PRIN -MIUR: "In vivo and in vitro experimental models identification and evaluation of relationship between bio-active gaseous molecules and endothelial cells activation process: exploitation for a possible terapeutical approach to the acute vascular injury " (24 months).

2001 competitive grant PRIN -MIUR: "Sperm DNA remodelling at fertilisation, exploitation for the use of exogenous DNA" (24 months)

Partecipant to many **multidisciplinary research projects** supported by competitive grants from EU, National and Local granting agencies, planning research activities of WP.

More relevant are listed above.

EU: IMI2 CONCEPTION: Building an ecosystem for better monitoring and communicating safety of medicines use in pregnancy and breastfeeding: validated and regulatory endorsed workflows for fast, optimised evidence generation' (start date 1 April 2019- five years)

EU: Seventh Framework Programme, Capacities BAKE4FUN: Innovative Biotechnological solutions for the production of new bakery functional foods (start date: November 1st 2013, 2 years);

EU: Sixth Framework Programme, Integrated project XENOME: Engineering of the porcine genome for xenotransplantation studies in primates: a step towards clinical application (start date: November 1st 2006, five years);

National: 2014 competitive grant Fondazione del Monte Bologna e Ravenna:

Cross-talk between mesenchymal and intestinal cells in vitro: replacement model for the study of chronic intestinal diseases (12 months).

Role of anti-inflammatory and anti-thrombotic agents on the prevention of acute vascular rejection in xenotransplantation (2003, 2 years); Biotechnologies applied to zoo-technical animal: Clinical application for transgenic animal (2001, 5 years); Development of alternative techniques for the animal transgenesis: from biotechnological innovation to animal production (1998, 5 years).

EDUCATION AND TRAINING

• Dates

• Title of qualification awarded

From May to July of 1991

Certificate of attendance

- Name and type of organisation providing education and training
 - Principal subjects
 - Level in national classification
 - Dates
 - Title of qualification awarded
- EMBL (European Molecular Biology Laboratory) – Roberto Di Lauro Research Team; Heidelberg, Germany.
Molecular Biology
Certificate of attendance
1st November 1988 - 31st October 1991
“Doctor of Research” with a PhD thesis: Swine embryos production with in vitro maturation and in vitro fertilization of oocytes”.
University of Sassari, Faculty of Veterinary Medicine, Italy.
- Name and type of organisation providing education and training
 - Principal subjects
 - Level in national classification
 - Dates
 - Title of qualification awarded
- Physiology of Animal Reproduction
PhD; 3-years of postgraduate (doctoral) course.
11th May 1987
Licence to practice Veterinary Medicine
University of Bologna, Faculty of Veterinary Medicine, Italy.
- Name and type of organisation providing education and training
 - Principal subjects
 - Level in national classification
 - Dates
 - Title of qualification awarded
- Veterinary Medicine
Licence to practice Veterinary Medicine
1st November 1980 - 18th March 1987
Degree in Veterinary Medicine, summa cum laude (110/110 e lode)
University of Bologna, Faculty of Veterinary Medicine, Italy.
- Name and type of organisation providing education and training
 - Principal subjects
 - Level in national classification
 - Dates
 - Title of qualification awarded
- Veterinary Medicine
5-years degree program
October 1975 - July 1980
High school Diploma
Scientific High School “Niccolò Copernico”, Bologna, Italy.
- Name and type of organisation providing education and training
 - Principal subjects
 - Level in national classification
- Science
5-years high school program

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

- Understanding skills
 - Speaking skills
 - Writing skills

SOCIAL SKILLS AND COMPETENCES

Italian

ENGLISH

Very good. Listening: C1 – Reading: C2
Very good. Spoken interaction: C1 – Spoken production: C1
Very good. C2

Skills in working in multidisciplinary team and various environments were acquired during international experience and collaboration with European/American scientists and during the participation/organization of multidisciplinary research projects and scientific collaborations.

ORGANISATIONAL SKILLS
AND COMPETENCES

Member of university instructor group competent on professional courses (2020 ongoing);
Vice Director of DIMEVET 2018-2021;
Commissioner for National Scientific Qualification 07/H1 (2018-2021);
Past Vice-Dean of School of Agriculture and Veterinary Medicine (2015-2018)
Head of the departmental unit of "Breeding and Animal Experimentation". (2008 ongoing)
Technical expert auditor for Istituto Parma Qualità (consortium Prosciutto di Parma) (2019 ongoing)
President of Scientific Committee of SISVet (Italian Society of Veterinary Science)(2018 ongoing);
Member of Local Organizing Committee of 19th International Congress on Animal Reproduction Bologna (ITALY), 2022.
Responsible for Summer course ESLAV-ECLAM (European Society of Laboratory Animal Veterinarians - European College Laboratory Animal Medicine) 2021-2022.
Member of Local Organizing Committee of 17th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR) Bologna (Italy) 12 -14 September 2013.
Responsible of Workshop WS4 on Sperm Mediated Gene Transfer at 15th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR) Antalya, Turkey, 15-17 September 2011.
Scientific organizing member of Round Table on "Veterinary Science For Human Health: From stem cells to transgenic animal" at LX Annual Meeting of the Italian Society for Veterinary Sciences (SISVET) 2006, Terrasini (PA).
Ability to organize and coordinate the activities of different people working on a research project.
Coordination of Research Unit – biennial projects supported by competitive grants funded by Italian Ministry of Instruction, University and Research (Progetti di Ricerca di Interesse Nazionale 2005, 2003, 2001).

TECHNICAL SKILLS
AND COMPETENCES

More than 30 years of research experiences in the area of physiology of reproduction, biotechnologies applied to farm animal, animal experimentation and animal welfare assessment, research and development of swine models for translational medicine
Expertise in *in vivo* animal reproductive biotechnologies with particular reference to swine (Hormonal synchronization and superovulation of gilt and sow, boar semen collection, manipulation, evaluation and AI, surgical oocytes and/or embryos collection, embryo transfer, laparoscopic insemination);
Expertise in the production and derivation of transgenic large animal - GMO, sample collection, manipulation and characterization;
Expertise in the use of swine as pre-clinical model;
Expertise in the evaluation of large animal welfare;
Expertise in experimental anesthesia and surgical approaches for research purposes in swine;
Expertise in *in vitro* animal reproductive biotechnologies with particular reference to swine (IVM, IVF, IVC of embryos);
Expertise in the planning of animal experimentation;
Experiences in reviewing scientific reports, undergraduate and postgraduate thesis and skills in editing and revising working documents;
Capacity to plan laboratory and animal experimentations, to analyze experimental data and to interpret results obtained as well as from scientific papers/reports.
Translational skills from English and editing of didactic book

COMPUTER SKILLS AND COMPETENCES

.Experiences in using writing program, PowerPoint, Outlook, Graphic tools (Photoshop).
Ability in using Internet and web databases such as PubMed, Cab, Festa etc.
Web Editor of DIMEVET web site.
Ability in using collaborative skills: Microsoft Exchange as messaging system Microsoft; Sharepoint to share data like files, contacts, calendars; Microsoft Messenger and Skype for Istant Messaging. Zoom, Teams, Skype, Webex, etc for TC.

OTHER SKILLS
AND COMPETENCES

Author of **116** scientific papers published on International Scientific Journal with IF, **2621** citations (scopus),
27 H-index,
out of more than **280** scientific reports and congress presentation in total.
Invited speaker at many national and international scientific and divulgative meeting/ congresses

International Conference participations:

11th Int Congr on Anim Reprod and Art Ins, Dublino 1988; 26th Annual Meeting Society for Cryobiology, Charleston, South Carolina (USA) 11-16 June 1989; 27th Annual Meeting Society for Cryobiology, Binghamton, 17-23 June, 1990; 11th Int Pig Vet Soc Congr, Lausanne, Switzerland, 1-5 July 1990; 3rd World Buffalo Congress, Varna, Bulgaria, 13-18 May 1991; SSF Annual Conference, Oxford, 15-17 July 1991; 7th Int. Meeting on Animal Reproduction, 21-26. Murcia, Spain, 6-9 July 1994; SSF Annual Conference, Oxford, Dec 1995; 14th Int Pig Vet Soc Congr, Bologna, Italy, 7-10 July 1996; 5th Int Conf Pig Reprod, Kerkrade, The Netherlands, 2-4 June, 1997; SSF Annual Conference, London, December 1997; SSF Annual Conference, Glasgow, July 1998; Regional Workshop on Biotechnology applied to Agriculture, Vinca – Belgrade, 5-6 June 1998; 5th Congress of the International Society for Organ Sharing, Maastricht, the Netherland, April 12-16, 1999; 14th Int Congr Anim Reprod, Stockholm, Sweden, 2-6 July 2000; XVIII World Congress of the Transplantation Society, Roma, Italy, August 2000; Fertility, Aberdeen Scotland, 13-17 July 2003; "Heme Oxigenase: Regulation, Functions and Clinical Application 2003 Conference", Uppsala, Sweden, 28 September - 3 October 2003; European Respiratory Society. Stockholm: September 15-19, 2007; Apoptosis World 2008, Luxembourg City, Luxembourg, January 23-26, 2008; 60th Annual Meeting EAAP, Barcelona, Spain, 24-27 August 2009; 15th Annual Conference of the European Society of Animal Reproduction (ESDAR), 15-17 september 2011, Antalya, Turkey; 16th Annual Conference of the European Society of Animal Reproduction (ESDAR), 11-14 September 2013, Bologna, Italy. The AAALAC International, ESLAV and ECLAM Conference 2015, 12-13 September 2015, Hannover, Germany. LAVA/ESLAV/ECLAM Joint Conference 2017, 24-26 September 2017, Edinburgh, Scotland. ESLAV/ECLAM/AAALAC/SECAL Joint Conference 2018, 15-16 October 2018, Barcelona, Spain; Minipig Research Forum: 22-24 May 2019 Vienna, Austria; 14th FELASA congress 2019, 9-13 June 2019, Prague, Czech Republic.

Co-inventor: International PCT filed on 10/05 "Methodology for production of transgenic animals using non viral episomal vectors" patent pending.

ADDITIONAL INFORMATION

Reviewer of National and International grant proposal.

Reviewer for the followings scientific international journals: Theriogenology; Reproduction in Domestic Animals; Bioelectromagnetics; Reproduction, Nutrition and Development, Research in Veterinary Science; Gene; Reproductive biology; Animal Reproduction Science; Animals; Journal of Animal Science; etc.

"**National expert** in the field of agricultural research" from 2005, appointed by Ministry Decree (Italian Ministry of Agricultural Policies) n.229 -29/07/2005.

Member of the "Ethic and Scientific Committee on Animal Experimentation", Bologna University.

Member of the editorial board of the scientific journal: Veterinary Medicine International [ijvm@journals.sage-hindawi.com], Animals.

Technical expert auditor for Istituto Parma Qualità (consortium Prosciutto di Parma)

Firma

Maria Laura Bacci

26.07.2021