

Giuseppe Maiorano is full Professor from 1.11.2006 (D.R. n. 1783 del 31.10.2006) at University of Molise (Campobasso, Italy) for the disciplinary scientific section AGR/19 (Zootecnica Speciale, Animal Science).

From 2015 he is Coordinator of International PhD (DOT 1339335) in “Agriculture Technology and Biotechnology”, (Partners: Italy – Poland – Slovakia).

From 2000 to 2012 was delegate for International relations of the Faculty of Agriculture, currently he is delegate for the Department of Agriculture, Environmental and Food Sciences.

From 2009 to 2017, he was General coordinator of the International PhD course in “Welfare, biotechnology and quality of animal production”, (Partners: Italy – Poland – Slovakia).

From 2009 he is component of the International scientific committee of the International Scientific Conference in Safety and Quality of Raw Materials and Foodstuffs (Nitra, Slovakia).

He is Member of the Group of evaluation experts (GEV) in the Italian Evaluation of Research Quality 2015-2019 (VQR).

PROFESSIONAL EXPERIENCE AND TRAINING

He obtained the degree in Agricultural Sciences in 1986 at the University of Bari (Italy) with maximum score (110/110). He began his research activity in 1988, obtaining a fellowship at the Department of Animal Science, University of Wyoming (USA), under the guidance of Prof. Ray A. Field, where he contributed to researches on the physiological and commercial maturity of lambs. Subsequently, he had the opportunity to spend other two time periods in the same institution: in 1991 (in cooperation with Professors Ray A. Field and Richard J. McCormick) and in 1999 (in cooperation with Professors Ray A. Field, Richard J. McCormick and Rule D. C.). In 1988, he was the winner of an open competition for university researcher in animal physiology at the Faculty of Agriculture, University of Molise (UNIMOL). From 1989 he carries out research activities at the UNIMOL. Starting from 1997, he was assigned to the scientific and disciplinary sector Animal Science (UNIMOL). Starting from February 21, 2001, he is Associate Professor in Animal Science and from November 1st, 2006 he is Full Professor in Animal Science, assuming the teaching position in the course of Meat science.

INSTITUTIONAL ACTIVITIES

From May 2012 to April 2015 he was the Vice Head at the Department of Agricultural, Environmental and Food Sciences (UNIMOL).

From academic year 2003/2004 he is Department delegate for international relations.

He was elected in the Board of the Faculty of Agriculture, as a representative of the Researchers (1996/1999 and 1999/2002).

From 1999 to 2002, he was a component of the Board of Directors of the University of Molise in representation of the Researchers and from 2002 to 2005, as a representative of the Associate Professors.

In 1992 he was elected as a component of the Integrated Academic Senate, in representation of the Researchers.

He was appointed by the Board of Directors of the University of Molise, in the session of 25/05/2012, President of the University Commission for cultural and recreational initiatives in favor of students, a role he still plays today.

He was a didactic responsible for the participants to the projects of formation “Tutors for Enterprises” and “Project Operators” of the “Productive Chain of the Pig Meat”, entrusted by the Italian Ministry of Education, University and Research (MIUR) (Decree of October 15, 1999. Prot. n. 519 Res.) to the Scientific and Technological Park of Molise (Moliseinnovazione Soc. Cons. a. r. l.).

He was a member of the job committee and teacher, of the international master in “Organization and Sustainable Management of the Animal Production and Environmental Protection” within the internationalization plan for MIUR (Decree of the Italian Ministry of the University Research, June 21, 1999).

In 2011, he was nominated Coordinator of the Study Commission “Innovative methodological approaches for the evaluation of the nutritional, sensorial and technological characteristics of meat” within the Scientific Association of Animal production.

Nominated by Academic Senate of the University of Molise, he was a member of the University Board as coordinator of the 07 area (Agriculture Science and Veterinary) to research evaluation (2001/2003).

DIRECTION, COORDINATION AND PARTECIPATION IN RESEARCH PROJECTS

He is scientific or research unit manager of the following research projects entitled:

- “Sustainable poultry production chain: biocontrol measures, new dietary approaches and novel packaging strategies”. PRIN 2020 (2020ENHELMA);
- "The sustainable use of by-products of the olive-oil supply chain to improve the health and quality of native Calabrian podolic cattle (FRASCA)" as part of the 2014/2020 Calabria RDP - Measure 16.2;
- “Enhancement and characterization of the biodiversity of the Locride grazing resources and grazing management plans”. PSR Calabria 2014/2020. Measure 16 “Cooperation” - Intervention 16.2.1;
- “Sustainable production of broiler chicken: chitosan injection in ovo, intestinal health, production performance (CHITOSAN). Department Funds;
- “Sustainable breeding of podolic cattle in marginal areas of Calabria and Basilicata: qualitative characterization of the meat of calves reared on pasture” (PODOLICA). Departmental funds.

He is responsible for the project units entitled "One health, one welfare, one world-Innovations in the dairy and meat supply chains for health, well-being and the environment" _ ARS01_00808. PON agrifood.

He was Scientific Responsible, for Italy, of the bilateral project financed by the Italian Ministry of Foreign Affairs and International Cooperation, within the program “Executive programme for Scientific and Technological Cooperation Between the Italian Republic and the Republic of Poland for the Years 2016-2018”.

He was Scientific Responsible of the following projects:

- “Nutritional and sensorial quality of beef and lamb meat produced in Avellino area”, financed by Province of Avellino (2012-2013);
- “Study and monitoring activities on the consistency and distribution of wild boar populations inside and near the Monte Vairano Protection Area”, financed by Province of Campobasso (2011-2012);
- “Casertana breed: productive performance and quality of meat and Pietraraja cured ham” financed by an Italian Research Institution (Legge 97/94, 2007-2008);
- “Exploitation of hybrid wild boar x domestic pig reared outdoors and nutritional and sensorial characterization of meat” (MIUR: Cofin PRIN 2007. prot. 2007WA4872. 2007-2008);
- “Wild boar breeding for food production”, financed by Molise Region (2006);

Participant with positions of responsibility to the following European, national and other projects:

- “In ovo delivery of inulin prebiotic in commercial and indigenous Italian chicken breeds provides a contribution to healthy food production under a heat stress”, financed by MIUR (SIR Program - RBSI14WZCL, 2015 – 2018);
- European project: “A whole-systems approach to optimise feed efficiency and reduce the ecological footprint of monogastrics”, ECO-FCE FP7 KBBE-212-6, N. 311794, (42 months from February, 2013). Responsible for meat quality and statistical analyses;
- European project: “Natural compounds to enhance productivity, quality n. and health in intensive farming systems” THRIVE RITE, FP7 N. 315198 (2012 -2014). Responsible for meat quality and statistical analyses;
- “In ovo stimulation of chicken microbiome - defining the mode of action of prebiotics and synbiotics” (UMO-2011/01/B/NZ9/00642) financed by the Ministry of Science and Higher Education in Poland (2011 - 2014). Responsible for meat quality and statistical analyses;
- “Genetic bases of variability of the Japanese quail as a model species (N N 311 633638) financed by the Ministry of Science and Higher Education in Poland (2010-2013).

- “Pigs and goats breeding”, financed by European Union, Calabria Region (Italy) and MIUR. Responsible for the part regarding swine breeding (2009 - 2013);
- “Technology of the productive chain of pig meat from animal rearing to meat products”, financed by MIUR (Prot. n. n° 759 Res., 2002-2007);
- “Effects of dietary energy level and vitamin E in vivo treatment on quality of lamb meat produced in Molise” supported by a grant from P.O.P. FESR of Molise Region. European Commission (94)3766. (1999-2001);
- “Metabolic regulation of intramuscular collagen and lipids as related to meat quality”, financed by CNR (Italian Council of research), Agenda 2000 (2001);
- “Optimization of meat production in the Chianina breed”. RAISA. Financed by CNR (1989- 1996). Responsible for histological characteristics;
- “Sustainable systems for farming and quality of animal productions”, funded by MIUR (PRIN, 1997 -1999);

Responsible of other kinds of projects:

- “Biotechnology and animal food quality” (11203-1644/Nitra02: SAAIC - ERAMUS Intensive Program - EIP. He was Responsible, as Partner 2, University of Molise – Department of Agriculture, Environmental and Food Sciences. 2012-2014);
- “Development of the applied research performances of teaching personnel from academic community in environmental protection and food safety domains”, Project code 8867, Contact POSDRU/19/ 1.3/G/8867, financed with European and the Government of the Romanian Republic funds. 2010-2012. Responsible as Italian partner;
- Coordinator of international inter-university cooperation projects “Welfare, biotechnology and quality of animal production” (MIUR, AF 2000 and MIUR Cooperlink 2010 - CII10TL68LAF 2010);
- Coordinator, as Italian partner, of the project entitled “Natural compounds delivered in ovo to enhance health, productivity, and meat quality of chickens from various production types and origin reared under different environmental conditions”, financed by the Italian Ministry of Foreign Affairs and International Cooperation (2016-2018).
- Coordinator of the project ERASMUS+ call – Allocation of funds action KA107 International Credit Mobility (2017-2019, n. 2017-1-IT02-KA107-035766), Partner: Agricultural University of Tirana.
- Coordinator of the project ERASMUS+ call – Allocation of funds action KA107 International Credit Mobility (ERASMUS_KA107_061718_ 2019-2021).
- Coordinator, as Italian partner, of the project “EcoSET. Ecology, Science, Education and Technology. Ways to Internationalise the University of Science and Technology in Areas of Research and Education” (1 October 2019 and 30 September 2021).
- Coordinator, as Italian partner, of the project European Dimension of Internationalization of Doctoral Study in Biotechnology and Food Sciences (EuroDisBioFood 2020-1-SK01-KA203-078363) (Project code: KA203-421240B7). (01/09/2020 – 31/07/2023)

INTERNATIONAL COLLABORATIONS

Research activities have materialized in the context of numerous international scientific collaborations:

- Department of Animal Science, University of Wyoming (USA);
- Department of Animal Biotechnology and Genetics and Department of Department of Animal Physiology, Physiotherapy and Nutrition, UTP University of Science and Technology, Bydgoszcz, Poland;
- Department of Immunology, Pathophysiology and Veterinary Preventive Medicine, Wroclaw University of Environmental and Life Sciences, Poland.
- Department of Biological Basis of Animal Production, University of Life Sciences, Lublin, Poland;
- Department of Animal Nutrition, Slovak University of Agriculture in Nitra.

TEACHING ACTIVITY

The teaching activity, as owner and on assignment, involved the following courses: Genetic improvement of animals in livestock production; Pathophysiology of animal reproduction and artificial fertilization; Special Zootechnics II; Morphofunctional Evaluation of Animals in Zootechnical Production; Special Zootechnics (Milk production technique); Special Zootechnics (Technique of meat production); General zootechnics (at the Faculty of Agriculture of Foggia of the University of Bari).

Currently it concerns the following courses: Evaluation of the quality of products of animal origin; Mountain livestock production; Sensory and rheological analysis laboratory of meat and derivatives, Animal Husbandry, Animal Production, and some courses in the PhD course "Agriculture, Technologies and Biotechnologies" .

SCIENTIFIC ACTIVITY

Lines of research:

- physiological maturity of growing animals in sheep-goat, bovine, swine, rabbit and poultry species, with particular reference to the histological aspects of the muscular, connective, bone and adipose tissues, as well as the nutritional and qualitative aspects of the meat;
- reproductive efficiency in ovine, bovine and rabbit species, and effects of the technique of synchronization and induction of oestrus on reproductive function and metabolic profiles in the ovine species;
- effects of nutritional factors on the metabolism of intramuscular collagen and cross-links, on metaphyseal growth cartilage, on lipid metabolism, for the purpose of improving the production and quality of meat of different species;
- use of biotechnologies (in ovo administration of prebiotics, probiotics and symbiotics) for the production of the "broiler" also under heat stress.

Publications: over 180 papers (77 Scopus indexed. H-index: 23. Citations: 1444).

Invited speaker:

- Urgent problems of using biotechnological resources in globalization, Ekaterinburg, Russia. (22-23 May, 2014);
- The fifth beneficial microbes conference, Amsterdam, Netherlands (10-12 October, 2016);
- The 12th International Scientific Conference Biotechnology and Quality of Raw Materials and Foodstuffs, Nitra, Slovakia (16-18 May, 2017);
- 29th International Poultry Symposium "Science for Practice – Practice for Science". Tarnowie Podgórnym, Poland (18-20 September, 2017);
- 1st Joint Meeting of Agriculture-oriented PhD Programs at UniCT, UniFG, and UniUD, Higher education for sustainable food production, Saline, Italy. (18-20 June, 2019);
- International conference on green feeds and animal product safety, Wuhan, China (04-08 August, 2019);
- 58th Annual Meeting "Towards a Global Health", Iasi, Romania (17-18 October, 2019).

REFEREE AND EDITOR ACTIVITY

Referee for international journals (Journal of Animal Science, Meat Science, Animals, Small Ruminant Research, Animal, Italian Journal of Animal Science) and national and international congresses.

He is Editorial Board of the journals: "Animals", "Slovak Journal of Animal Science" and "Journal of Microbiology, Biotechnology and Food Sciences".

He is member of several national and prestigious international scientific associations.

AWARDS

On January 29th, 2013, he received an award: "Certificate of honour in recognition of his prolonged devotion to scientific cooperation and encouragement" from the Faculty of Biotechnology and Food Science, Slovak University of Agriculture in Nitra (SK).

In June 10th, 2014, he received from the Academiae Scientiarum Agriculturae Slovacae the acknowledgement of Academic Stranger, for the following reasons: "Your life-long devotion to science, education and practices, your brilliant work over many years, your personal qualities have set an example to the coming generation, and inspiration to use all. You are famous for your characteristics way of presentation of a lot of new knowledge from animal sciences and for effective contribution to discussion." The decree is signed by the Minister of Agriculture of the Slovak Republic.