



## Giuseppe Marruchella

[Redacted contact information]

### WORK EXPERIENCE

#### Associate Professor of Veterinary Pathology

*University of Teramo, Department of Veterinary Medicine* [ 01/12/2022 – Current ]

City: Teramo

Country: Italy

Teaching "Swine Pathology" and "Farm Animals' Pathology" in the framework of the degree in Veterinary Medicine, as well as of Post-Degree School of Specialization in "Animal Health and Production", "Food Hygiene", "Physiopathology of Animal Reproduction", Equine Medicine and Surgery".

Member of the Post-Degree School of Specialization in "Animal Health and Production", University of Teramo, Italy.

Member of the PhD School in "Veterinary Medicine, Public Health and Animal Welfare".

Main field of interest: swine pathology, scoring methods in slaughtered animals, infectious diseases of farm animals, artificial intelligence in veterinary pathology.

Delegate of the Department of Veterinary Medicine of Teramo for the Erasmus Program and the International Mobility of Staff and Students.

Member of the Committee for Students' practical training at the Department of Veterinary Medicine of Teramo. Responsible of the necropsy room activities at the Veterinary Teaching Hospital, Department of Veterinary Medicine of Teramo.

Member of the following scientific associations: Italian Association of Swine Health and Farming ("Società Italiana di Patologia ed Allevamento dei Suini", SIPAS), American Association of Swine Veterinarians (AASV), Italian Association of Veterinary Pathologists ("Associazione Italiana dei Patologi Veterinari", AIPVet)

Referee for the following scientific journals: Research in Veterinary Science; Veterinary Medicine: Research and Reports; Large Animal Review; Agricultural Sciences in China; Open Veterinary Journal; Journal of Neuroimmunology; Veterinaria Italiana; Veterinary Medicine and Science; Veterinary Record; BMC Veterinary Research, Virulence, Veterinary Sciences, Pathogens, Animals. Reviewer for the European project "EMIDA ERA-Net" (2011) and "ANIWA" (2013, 2015). Member of the Editorial board of Frontiers in Veterinary Sciences.

Guest Editor of the Special Issue "Artificial Intelligence (AI) as One Health Tool in Pathology to Monitor and Control Infectious Diseases" on Pathogens.

Author/co-Author of 82 scientific papers indexed in Scopus and WOS.

#### Assistant Professor of Veterinary Pathology

*University of Teramo, Faculty of Veterinary Medicine* [ 01/11/2001 – 30/11/2022 ]

City: Teramo

Country: Italy

Teaching activities in "General Veterinary Pathology", "Swine Pathology" and "Farm Animals' Pathology" in the framework of the degree in Veterinary Medicine, as well as of Post-Degree School of Specialization in "Animal Health and Production", "Food Hygiene", "Physiopathology of Animal Reproduction", Equine Medicine and Surgery".

Main fields of interest: transmissible spongiform encephalopathy, pathogenesis of infectious diseases, swine pathology.

From June 2015 until December 2021 – Member of the "Teachers and Students Committee" of the Faculty of Veterinary Medicine, University of Teramo, Italy.

### **Veterinary Pathologist**

*Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise* [ 01/02/2012 – 31/01/2015 ]

City: Teramo

Country: Italy

Diagnostic, research and teaching activities in the field of veterinary pathology, mainly about veterinary oncology and infectious diseases of domestic animals.

### **Veterinarian**

*Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna* [ 01/01/2000 – 15/05/2001 ]

City: Brescia

Country: Italy

Taking part to a research project funded by the Italian Ministry of Health and entitled "Evaluation of the Efficacy, Safety and Stability of a Genetically Modified Aujeszky's Disease Virus"

### **Adjunct Lecturer**

*University of Namibia* [ 15/04/2019 – 30/09/2019 ]

City: Windhoek

Country: Namibia

Teaching, research and diagnostic activity in veterinary pathology at the School of Veterinary Medicine, Neudamm Campus, Windhoek

### **Veterinary Practitioner**

*Live s.r.l.* [ 01/05/2001 – 30/09/2001 ]

City: Reggio Emilia

Country: Italy

Technical support to pig farms in Northern Italy

### **Visiting Scientist**

*Agri-Food and Biosciences Institute of Northern Ireland (AFBNI), Veterinary Sciences Division* [ 01/06/2005 – 30/06/2005 ]

City: Belfast

Country: United Kingdom

European COST Project regarding botulism in cattle

## **EDUCATION AND TRAINING**

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### **Degree in Veterinary Medicine**

*University of Parma, Faculty of Veterinary Medicine* [ 01/11/1988 – 28/03/1995 ]

Address: Via del Taglio , 43100 Parma (Italy)

Website: [www.unipr.it](http://www.unipr.it)

### **Academic Degree in Swine Diseases**

*University of Parma, Faculty of Veterinary Medicine* [ 15/01/1999 – 10/09/2001 ]

Address: Via del Taglio, 43100 Parma (Italy)

Website: [www.unipr.it](http://www.unipr.it)

## High School Diploma

*Giulietta Banzi Bazoli Scientific High School* [ 15/09/1983 – 15/07/1988 ]

Address: Piazza del Palio, 73100 Lecce (Italy)

## LANGUAGE SKILLS

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Mother tongue(s): **Italian**

Other language(s):

**English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

## DIGITAL SKILLS

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Microsoft Office / Microsoft Word / Microsoft Powerpoint / Google Drive / Skype

## PROJECTS

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### **Evaluation of the Efficacy, Safety and Stability of a Genetically Modified Aujeszky's Disease Virus**

[ 01/01/2000 – 15/05/2001 ]

Research project funded by the Italian Ministry of Health, carried out at the "Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia-Romagna" (Principal Investigator: Dr. Maura Ferrari)

### **Sheep scrapie – pilot study about the morphological and functional changes of the enteric nervous system and its interaction with the lymphoreticular system, depending on the host genotype**

[ 2004 – 2006 ]

Research project funded by the Italian Ministry of Education, University and Research (Principal Investigator: Giovanni Di Guardo, Associate Professor of Veterinary Pathology, University of Teramo, Italy).

### **Botulism in cattle**

[ 01/06/2005 – 30/06/2005 ]

European COST Project (Principal Investigator: Dr. Seamus Kennedy, AFBINI, Belfast Northern Ireland)

### **Insights about the pathogenesis of neuronal and glial damage in sheep affected by natural 4 and experimental scrapie and with different PRNP genotypes**

[ 2007 – 2009 ]

Research project funded by the Italian Ministry of Education, University and Research (Principal Investigators: Giovanni Di Guardo, Associate Professor of Veterinary Pathology, University of Teramo, Italy; Prof. Giovanna Lalatta Costerbosa, Full Professor of Veterinary Anatomy, University of Bologna, Italy).

### **Pathogenesis of contagious bovine pleuropneumonia.**

[ 2016 – 2017 ]

Scientific agreement between the OIE Reference Laboratory for contagious bovine pleuropneumonia (IZSAM, Teramo, Italy) and the University of Teramo (Principal Investigators: Dr. Massimo Scacchia, IZSAM, Teramo, Italy; Dr. Giuseppe Marruchella, University of Teramo, Italy)

### **Efficacy of antimicrobial drugs and of a vaccine strain of *Mycoplasma mycoides* subsp. *mycoides* for the treatment and/or prophylaxis of contagious bovine pleuropneumonia.**

[ 2016 – 2017 ]

The project was funded by the Global Alliance for Livestock Veterinary Medicine (GALVMed, Nairobi, Kenya). Principal investigators: Dr. Geoffrey Muuka (CVRI, Lusaka, Zambia) and Dr. Hezron Wesonga (KALRO, Nairobi, Kenya).

### **Efficacy of a putative vaccine strain of *Mycoplasma capricolum* subsp. *capripneumoniae***

[ 2017 ]

The project was funded by the Global Alliance for Livestock Veterinary Medicine (GALVMed, Nairobi, Kenya). Principal investigators: Anne Liljander (ILRI, Nairobi, Kenya) and Joerg Jores (University of Berna, Switzerland).

### **Pathogenesis of contagious bovine and caprine pleuropneumonia**

[ 2018 – 2021 ]

Scientific agreement between the OIE Reference Laboratory for contagious bovine pleuropneumonia (IZSAM, Teramo, Italy) and the University of Teramo (Principal Investigators: Dr. Massimo Scacchia, IZSAM, Teramo, Italy; Dr. Giuseppe Marruchella, University of Teramo, Italy)

### **Artificial intelligence-based tools in the fields of veterinary pathology and animal production**

[ 2018 – 2021 ]

Funded by Farm4Trade Company (Principal Investigators: Dr. Andrea Capobianco Dondona, Farm4Trade, Chieti, Italy; Dr. Giuseppe Marruchella)

### **Research project “Demetra – Dipartimenti di Eccellenza”**

[ 2018 – 2022 ]

Funded by the Italian Ministry of University and Research

### **Intestinal microbiota of canary birds**

[ 2022 – 2023 ]

Funded by “Federazione Ornicoltori Italiani” (Principal Investigators: Dr Gianluca Todisco, FOI, Italy; Prof. Pietro Giorgio Tiscar and Dr. Giuseppe Marruchella; University of Teramo, Italy)

### **Innovation, digitalisation and sustainability for the diffused economy in central Italy”. Code number ECS00000041 - VITALITY (CUP C43C22000380007).**

[ 2023 – 2025 ]

Responsible of the TASK: 5.6 “Training to Farmers and Food Processing Technicians” (WP: 5. Sustainable Primary Productions)

## **HONOURS AND AWARDS**

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### **Premio Ennio Sanna – Best oral presentation**

Associazione Italiana di Patologia Veterinaria (AIPVet) [ 2009 ]

Best oral presentation at the Annual Meeting of the “Associazione

Italiana di Patologia Veterinaria”. Title: Distribuzione della proteina prionica patologica (PrPSc) in organi di ovini affetti da scrapie e da concomitanti patologie infiammatorie croniche”

### **Premio Rosario Preziosi**

Associazione Italiana di Patologia Veterinaria (AIPVet) [ 2009 ]

Best poster at the Annual Meeting of the "Associazione Italiana di Patologia Veterinaria"

Title: "Scrapie naturale e sperimentalmente indotta per os in ovini di razza Sarda: recenti acquisizioni in ambito patogenetico"

### **Best poster at the 4th "Workshop Nazionale di Virologia Veterinaria"**

Società Italiana di Virologia Veterinaria [ 2011 ]

Title: "Distribuzione ectopica di PrPSc in organi di ovini affetti da scrapie e da infiammazioni croniche"

### **Premio Rosario Preziosi**

Associazione Italiana di Patologia Veterinaria (AIPVet) [ 2013 ]

Best poster at the annual meeting of the "Associazione Italiana di Patologia Veterinaria"

Title: "Cimurro in carnivori selvatici dell'appennino centrale: rilievi clinico-patologici"

### **Premio STARTCUP ABRUZZO**

Camera di Commercio Chieti-Pescara [ 2020 ]

Title: Automatic Detection of Abattoir Lesions

### **Premio Pierfilippo Guadagnini**

Società Italiana di Patologia e Allevamento dei Suini [ 2021 ]

Title: Utilizzo dell'intelligenza artificiale per lo score delle pleuriti del suino

### **Best paper published on "Veterinary Pathology" in 2020**

Davis-Thompson Foundation [ 2021 ]

Title: Contagious Bovine Pleuropneumonia: a Comprehensive Review

### **Best oral presentation**

International Pig Veterinary Society [ 2022 ]

Award for the best oral presentation at the Congress of the International Pig Veterinary Society, Rio de Janeiro, Brasil (Topic "Production and Innovation")

Title: "Artificial Intelligence and Slaughtered Pigs: a promising affair"

Roseto degli Abruzzi, July 20th 2023

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