

PERSONAL INFORMATION

Marcello Giovanni Sala

POSITION
MAY 2022 TO PRESENT

Head of Applied Epidemiology, One Health and Development Cooperation Unit (UOS Epidemiologia Applicata, Salute Unica e Cooperazione allo sviluppo) within the Epidemiology Unit (UOC Osservatorio Epidemiologico) – Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT) www.izslt.it

WORK EXPERIENCE

from May 2002 to April 2022

Staff Veterinarian - Epidemiology Unit – Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT)
Via appia nuova, 1411 – 00178 – Rome (Italy) – www.izslt.it

- Approximately 70% of effort: prevention and control of animal infectious diseases and zoonoses,
- Approximately 30% of effort: research in the field of domestic and wild animal infectious diseases and zoonoses (food-borne pathogens, Brucellosis, Bovine Tuberculosis, TSE, West Nile Virus disease, Avian Influenza)
- Specific competences within the Regional Veterinary Epidemiology Unit of IZSLT:
 - descriptive and analytical epidemiology
 - design and evaluation of surveillance systems (ASF, Equine Influenza, Avian Influenza, TSE's, Blue Tongue, Equine Infectious Anemia, West Nile Disease Virus Disease)
 - evidence based prevention.
- Specifically, Dr. Sala works in collaboration with the National Reference Centre for Equine Diseases of IZSLT on research projects in the field of equine viral diseases (Viral Arteritis, Herpesvirus 1, 4, Equine Infectious Anemia) and in the surveillance of Equine Influenza and arthropod-borne diseases like West Nile virus.
- Conducts outbreaks investigations, designs and executes surveillance systems and conducts special studies designed to improve animal and human health and to recommend evidence-based intervention to the regional or national public health authorities.
- Dr. Sala executes biomonitoring programs of animals and animal products contamination by pollutants and conducts several research projects in this field aimed at developing and evaluating surveillance models, GIS oriented, for primary and secondary prevention of exposure of animal and human populations (probability and susceptibility maps, risk based interventions) .
- He collaborates in several research project granted by the Italian Ministry of Health in the field of animal diseases and zoonoses since 1999.
- Wide experience in training activities in the fields of epidemiology, validation of diagnostic methods and in veterinary public health, both at a regional and national level.
- Former Member of the National technical committee for TSEs
- Former Member of the National Working Group for epidemiologic investigations (WG-IE-2017)
- Former Member of the National Working Group for the revision of the National Veterinary Informative Systems (WG-SISA-2018)

In 2022 he was appointed Head of the Applied Epidemiology and One Health Unit within the Epidemiology Unit - IZSLT.

Business or sector Veterinary Public Health - Regional Institute within the Italian network for Prevention and Control of Animal Diseases and Zoonoses

• from Oct. 2001 to Dec. 2001

Expert consultant

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT)

Via appia nuova, 1411 – 00178 – Rome (Italy) – www.izslt.it

- Supervisor for the study design and the epidemiological evaluation of results - Research Project granted by the Italian Ministry of Health: "Evaluation of risk factors for Cryptosporidiosis spread among livestock in Central Italy"..

Business or sector Veterinary Public Health - Regional Institute within the Italian network for Prevention and Control of Animal Diseases and Zoonoses.

• from Oct. 1999 to Sept. 2001

Expert consultant

Istituto Zooprofilattico Sperimentale del Lazio e della Toscana (IZSLT)

Via appia nuova, 1411 – 00178 – Rome (Italy) – www.izslt.it

- Supervisor for the Lazio Region within the framework of the national research project granted by the Italian Ministry of Health: " Risk factors for bovine tuberculosis and bovine and sheep brucellosis transmission"

Business or sector Veterinary Public Health - Regional Institute within the Italian network for Prevention and Control of Animal Diseases and Zoonoses.

• from Nov. 1997 to Jul. 2001

Expert consultant

Universitas Studiorum Mediolanensis. Animal Pathology, Hygiene and Veterinary Public Health Department - General Pathology and Veterinary Parasitology Unit.

10, Via Celoria, 20133 Milan Italy

- Research projects concerning the monitoring and the surveying of wildlife health status, mainly focused on the epidemiology of parasitism, its impact on the host-population dynamics and the sanitary interactions with the grazing livestock. In this framework he also planned and coordinated field researches and epidemiological studies aimed to assess the needs for intervention in the management of wildlife and performed the evaluation of the interventions adopted

Business or sector University

EDUCATION AND TRAINING

From Gen 2004 to Dec. 2005

Master's Degree (MA): Applied Epidemiology (IT. Master's Degree II Level)

Istituto Superiore di Sanità (Superior Institute of Public Health) and University "Tor Vergata" Rome – Italy: Applied Epidemiology Italian FETP (Field Epidemiology Training Program) - PROFEA.

- Epidemiology, statistical analysis, human resources management, surveillance systems design and evaluation, health programs planning, risk assessment and risk communication in collaboration with the European Community Epidemiology Training Program (EPIET), the Training in Epidemiology and Public Interventions Network (TEPHINET) and the Centers for Disease Control and Prevention (CDC)

From Gen 2001 to Dec. 2001

Advanced course qualification: Epidemiology for Public Health officials

(IT. Corso di perfezionamento per operatori di Sanità Pubblica)

Istituto di igiene "G. Santarelli" – Università "La Sapienza" – Roma

Hygiene Institute "G. Sanarelli"- "La Sapienza" University – Rome - Italy

- Biostatistics, Epidemiological studies, sampling methods, statistical analysis

From 1999 to 2001 **Postgraduate Degree: Avian and wildlife Pathology (Full marks)
Major in Avian Pathology**

Faculty of Veterinary Medicine - Universitas Studiorum Mediolanensis
10, Via Celoria, 20133 Milan Italy

- Pathology of avian species and Epidemiology of Avian and wildlife diseases

From 1986 to 1996 **D.V.M. Degree (Full marks)**

Faculty of Veterinary Medicine - Universitas Studiorum Mediolanensis.
10, Via Celoria, 20133 Milan Italy

- Veterinary Medicine

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C1	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

- Communication skills
- good communication skills gained through my experience as speaker in national and international scientific congress, workshops
 - good communication skills gained through my experience as lecturer in training courses for public health officials, breeders, stakeholders

- Organisational / managerial skills
- currently responsible for the management of information flows in animal health and zoonoses at the Lazio and Tuscany Regional Level
 - responsible for the management of national information flows and the epidemiological evaluation of surveillance plans for equine infectious anemia and equine viral arteritis in collaboration with the national reference centers activated at the IZSLT
 - Coordination, emergency planning and scientific technical support to the Regional Health Authorities in the field of animal health and environmental contamination
 - scientific coordinator, on behalf of the IZSLT within the framework of the program agreement between the Italian Ministry of the Environment and the Protection of the Territory and the Sea and the Lazio Region for the intervention of "Characterization of Riparian Agricultural Areas" of the Sacco River Basin, Site of National Interest.

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient User	Proficient User	Basic user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of software for statistical analysis (Stata, Spss)
- good command of software epidemiology-oriented tools (Epi-Info, Winepiscope, Epi Tools)

Driving licence Driving licence category: B

ADDITIONAL INFORMATION

▪ Publications (most relevant)

- Host specificity of abomasal nematodes in free ranging alpine ruminants. *Veterinary Parasitology* 90: 221-230. Serological study of a population of alpine chamois (*Rupicapra Rupicapra*) affected by an outbreak of respiratory disease. *Veterinary Record* (2003) Nov. 8; 153(19):592-596.
- Seasonal changes in serum metabolites in free-ranging alpine marmots (*marmota marmota*). *Journal of comparative physiology B* (2004); 174: 355-361.
- Dog filariosis in the Lazio region (Central Italy): first report on the presence of *Dirofilaria repens*. *BMC Infectious Diseases* (2005), 5:75
- Abomasal nematode community in an alpine chamois (*Rupicapra R. Rupicapra*) population before and after a die-off. *Journal of Parasitology*, 92(5) 2006: 918-927
- Attitudine all'uso prudente degli antibiotici e percezione del rischio antibiotico-resistenza: un'indagine campionaria tra i veterinari clinici dei piccoli animali. *BEN Notiziario ISS* marzo 2006 Vol. 19 n. 3
- Epidemiological situation of Herpesvirus infections in buffalo herds: Bubaline Herpesvirus1 or Bovine Herpesvirus1? *Italian Journal of Animal Science*, Vol. 6 – 2007, Supplement 2 – part 2: 845-849.
- Genetic characterization of equine influenza viruses isolated in Italy between 1999 and 2005. *Virus Research* 131 (2008) 100-105.
- Comparison of indirect fluorescent antibody test and modified agglutination test for detecting *Toxoplasma gondii* immunoglobulin G antibodies in dog and cat. *Parasitology Research*: 2009 Jul;105(1):35-40. Epub 2009 Feb 17
- Protective effect of the AT137RQ and ARQK176 PrP alleles against natural scrapie in sheep. *Veterinary Research* 2009 May-Jun;40(3):19. Epub 2009 Jan 27.
- Feline injection site sarcoma: Recurrence, tumour grading and surgical margin status evaluated using the three-dimensional histological technique. *The Veterinary Journal* 186 (2010) 84–88
- Surveillance model for environmental contaminants through their monitoring in animal production. *Italian Journal of public health (JPH)* - volume 7, Number 1, 2010 3-11
- Contaminazione da abeta-esaclorocicloesano delle aziende bovine da latte della Valle del Sacco (Lazio) Gestione dell'emergenza 2005 e conseguente studio di coorte retrsopettivo. *Epidemiol Prev* 2012; 36(5) suppl 4:34-43
- What feedback after five years from the implementation of the Italian National Surveillance Programme (NSP) for Equine Infectious Anemia (EIA). *Journal of Equine Veterinary Science* 32 (2012) S3-S95 (S87)
- A spatial, statistical approach to map the risk of milk contamination by β -hexachlorocyclohexane in dairy farms. *Geospatial Health* 8(1), 2013, pp. 77-86
- Completeness of the dog registry and estimation of the dog population size in a densely populated area of Rome. *Preventive Veterinary Medicine*. 10/2013; 2014(113):146-151
- Bluetongue serotype 1 epidemics in the Italian Central Regions of Latium and Tuscany in 2014 Proceedings Xth International Congress For Veterimrnary Virology - 9th Annual Meeting EPIZONE 2015
- Development and evaluation of risk-based surveillance (RBS) for equine infectious anemia (EIA) 10th IEIDC Abstracts / *Journal of Equine Veterinary Science* 39 (2016) S33eS44
- A WEB-based geographic information system (WEBGIS) tool for the control of equine infectious anemia (EIA) 10th IEIDC Abstracts / *Journal of Equine Veterinary Science* 39 (2016) S33eS44
- Control and eradication of tuberculosis in cattle: a systematic review of economic evidence. *Veterinary Record* (2016), 179, 70-75
- "Tuberculosis, brucellosis and leucosis in cattle: a cost description of eradication programmes in the region of Lazio, Italy". *Transbound. Emerg. Dis.* 2017 Oct ;64(5):1493-1504.

- “Monitoring for the possible introduction of Crimean-Congo haemorrhagic fever virus in Italy based on tick sampling on migratory birds and serological survey of sheep flocks”. Preventive Veterinary Medicine, Volume 149, 1 January **2018**, Pages 47-52
- A cross-sectional serosurvey in a sheep population in central Italy following a bluetongue epidemic. PLoSONE 14(1): e0208074. <https://doi.org/10.1371/journal.pone.0208074> (**2019**)
- Seasonal succession of tabanid species in equine infectious anaemia endemic areas of Italy. Medical and Veterinary Entomology (**2019**). February 2019 Medical and Veterinary Entomology 33(3) DOI: 10.1111/mve.12360
- Management of Mycobacterium avium subsp. paratuberculosis in dairy farms: Selection and evaluation of different DNA extraction methods from bovine and buffaloes milk and colostrum for the establishment of a safe colostrum farm bank. August **2019** MicrobiologyOpen 8(8) DOI: 10.1002/mbo3.875
- EVALUATION OF INTRA- AND INTER-OBSERVER AGREEMENT OF ULTRASONOGRAPHIC FINDINGS AFTER ADIPOSE TISSUE DERIVED MESENCHYMAL STEM CELLS TREATMENT OF SUPERFICIAL DIGITAL FLEXOR TENDON INJURIES IN HORSES. December **2019** Slovenian Veterinary Research 56(4):173-81 DOI: 10.26873/SVR-832-2019
- Cross-sectional serosurvey of Coxiella burnetii in healthy cattle and sheep from extensive grazing system in central Italy. January **2020** Epidemiology and Infection 148 DOI: 10.1017/S0950268819002115
- Farms at risk from environmental pollution: a proposal for a risk ranking procedure. Epidemiol Prev **2020**; 44 (5-6):394-401. doi: 10.19191/EP20.5-6.P394.015
- West Nile and Usutu viruses co-circulation in central Italy: outcomes of the 2018 integrated surveillance. Parasites & Vectors; (**2021**) 14:243 <https://doi.org/10.1186/s13071-021-04736-z>
- Sero-epidemiological survey of orthopoxvirus in stray cats and in different domestic, wild and exotic animal species of central Italy. Viruses **2021**, 13, 2105.10.3390/v13102105
- A retrospective study on dioxins and dioxin-like polychlorinated biphenyls in milk and dairy products from the Latium region (Italy) over a 7-year study period (2011–2017). Environmental Science and Pollution Research 29:69424–69438 - <https://doi.org/10.1007/s11356-022-20644-w> (**2022**)
- Complete Genome of African Swine Fever Virus Genotype II in Central Italy Microbiol Resour Announc **2023** May 11;e0136422. doi: 10.1128/mra.01364-2
- Seroconversion of a Swine Herd in a Free-Range Rural Multi-Species Farm against HPAI H5N1 2.3.4.4b Clade Virus. Microorganisms **2023**, 11, 1162. <https://doi.org/10.3390/microorganisms11051162>
- First National Prevalence in Italian Horse Population and Phylogenesis Highlight a Fourth Sub-Type Candidate of Equine Hepacivirus. Viruses **2024**, 16, 616. <https://doi.org/10.3390/v16040616>
- Equine infectious anaemia: the active surveillance of an entire equid population reduces the occurrence of the infection. Transboundary and Emerging Diseases **2024** - <https://doi.org/10.1155/2024/3439871>
- Heavy metals and trace elements in milk and dairy products in the Lazio region (Central Italy). Food Additives & Contaminants **2024**: Part B, 1–10. <https://doi.org/10.1080/19393210.2024.2389423>

Honours and awards

The 2006 William H. Foege Award for Outstanding Public Health Intervention - 55th Annual Epidemic Intelligence Service Conference April 26, 2006 – Atlanta, Georgia (USA)
 Division of Epidemiology and Surveillance Capacity Development Coordinating Office of Global Health - Centers For Disease Control and Prevention (CDC) Atlanta, Georgia

IT

Dichiaro che le informazioni riportate nel presente CV costituiscono autocertificazione ai sensi degli art. 46 e 47 del DPR 445/2000, consapevole della responsabilità penale prevista dall'art. 76 del citato decreto per le ipotesi di falsità in atti e dichiarazioni mendaci ivi indicate.

“Autorizzo il trattamento dei miei dati personali ai sensi del Regolamento UE 2016/679 sul trattamento dei dati personali e del precedente D.Lgs 196/03”

ENG

I declare that the information contained in this CV constitutes self-certification in compliance with art. 46 and 47 of National (ITA) Presidential Decree 445/2000. I'm aware of the criminal liability provided for by the art. 76 of the aforementioned decree for the cases of falsity in documents and false declarations indicated therein.

I also authorize the processing of my personal data pursuant to Legislative Decree 30 June 2003 n.196 and art. 13 of EU regulation 2016/679 relating to the protection of natural persons with regard to the processing of personal data

Rome 30 August 2024

Dr. Marcello Giovanni Sala