

Curriculum Vitae

Name: Giancarlo Ferrari

University Education: Graduated in Veterinary Medicine in 1984

Post University education: From 1993 to 1996 Giancarlo Ferrari attended a three-year post graduation school and became Specialist in Bio-Statistics and Epidemiology (University of Rome, Faculty of Statistics)

Communication skills: Communication skills of Giancarlo Ferrari have largely improved during his professional career as Senior Animal Health officer in FAO. The need for a constant relationship with the veterinary authorities of the beneficiary countries of the different projects that he has been coordinating required a good capacity to listen and communicate new ideas on how to approach control and prevention of major diseases of livestock in situations where resources are usually limited.

Managerial skills: Giancarlo Ferrari in his last assignment has coordinated a rather complex project in Afghanistan: "Building resilience and self-reliance of livestock keepers by improving the control and knowledge of FMD and other trans-boundary animal diseases (TADs)". The coordination of the project required a thorough and deep coordination with the Veterinary Authorities. His organizational and managerial skills have largely improved while working in FAO and coordinating another complex regional project encompassing Central Asian and South Asian countries. He was recognized as an excellent project manager and team player.

Job-related skills: Giancarlo Ferrari job-related skills have been mainly acquired through field work combined with academic experience in relation to which he has been appointed contract professor to teach epidemiology of infectious diseases of animals in regular and post-graduation courses from the academic year 2003-2004 up to 2014-2015 (Faculty of Veterinary Medicine, University of Pisa).

In the academic year 2017-2018 he was assigned a course on Cooperation Development for post-graduate students in Veterinary Public Health at the Faculty of Veterinary Medicine in Pisa.

In the academic year 2018-2019 he was contract Professor in Statistics for students of the first year of the course in Animal Science Production in the Department of Veterinary Science (University of Pisa).

He is author/co-author of more than 60 publications on scientific journals.

Digital competence: Giancarlo Ferrari has very good computer skills on most common tools such as Microsoft Office package (word, excel, power point) and specialized statistical software such as Stata.

Professional career from 1 January 2022 up to date

From 17 January 2022 Giancarlo Ferrari holds a consultancy contract (as FAO pensioner) with FAO. The consultancy is shared between the European Commission for the control of FMD (EuFMD) and the joint FAO/OIE PPR Secretariat.

Under the EuFMD component he is collaborating to assist countries of the Middle East region in training in epidemiology and the formulation of risk-based strategic plans for the progressive control of FMD.

Under the PPR component he is one of the five members of a group of experts tasked to review the Global Eradication Program for PPR.

Professional career from 1 December 2017 to 31 December 2021

Employer: Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana (IZSLT)

From 1 December 2017 to 31 December 2021 Giancarlo Ferrari has re-joined IZSLT where he was responsible for all activities related to International Cooperation with extra European countries.

He was responsible for the implementation of the training activities outlined in a Letter of Agreement (LoA) signed between IZSLT and the European Commission for the control of foot-and-mouth disease (EuFMD) established in FAO (Rome). The main objectives of the LoA are: (i) to provide training to countries of Northern Africa and Middle East for the evaluation of the effectiveness of vaccination programs against Foot-and-Mouth disease (FMD); and (ii) to provide training to the formulation of risk-based control program against FMD.

From April 2019 he has been appointed member of the Standing Technical Committee of the European Commission for the control of Foot-and-Mouth disease (EuFMD).

From May 2020 he is member of a joint FAO/OIE (World Organization for Animal Health) expert group aiming at reviewing a monitoring tool named PMAT (PPR Monitoring and Assessment Tool) supposed to assist countries in their progress to achieve eradication of PPR (Peste des Petit Ruminants) for which the FAO and OIE have elaborated a Global Eradication Strategy.

Professional career from 7 December 2016 to 30 November 2017

Employer: Istituto Zooprofilattico Sperimentale delle Regioni Lazio e Toscana (IZSLT)

From 7 December 2016 (when Giancarlo Ferrari has retired from FAO) he has been on unpaid leave from IZSLT and providing occasional services to different entities.

In this regard he has been team member of an OIE PVS (Performance of Veterinary Services) follow-up mission carried out in Afghanistan from 12 to 24 April 2017. In particular he was assigned to evaluate a specific sub-component of the mission aiming at assessing the capacity of the country to implement activities for the progressive control and eradication of Peste des Petit Ruminants (PPR).

From 7 to 14 May 2017 he was team member of an OIE mission to Kazakhstan to evaluate the epidemiological situation of Foot-and-Mouth disease (FMD) following a request submitted to OIE by the Veterinary Services of Kazakhstan to obtain the status of freedom with vaccination from FMD in 5 Regions of the country located in the Southern part.

He is also providing technical assistance (TA) to Afghanistan Veterinary Services through a European Union funded project named: "EU support to capacitate the Ministry of Agriculture, Irrigation and Livestock (MAIL) in transition for sustainable public services delivery".

The TA is specifically focusing on: (i) assisting in the formulation of a national strategic and technical plan for the progressive control of PPR; (ii) assisting the country in improving the surveillance system for notifiable animal diseases.

During this period Giancarlo Ferrari has also provided his assistance and expertise to the joint FAO/OIE FMD working group and to the European Commission for the Control of FMD (Eu-FMD) to produce a second edition of the Progressive Control Pathway for FMD.

Professional career (from 30 July 2015 to 6 December 2016)

Employer: FAO Afghanistan

Post title: Chief Technical Advisor (project OSRO/AFG/402/JPN)

Division: FAO-AF

Under this assignment Giancarlo Ferrari was selected as Chief Technical Advisor (CTA) for the OSRO/AFG/402/JPN project "Building resilience and self-reliance of livestock keepers by improving control of Foot-and-Mouth Disease (FMD) and other Transboundary Animal Diseases (TADs)". The project has assisted Afghanistan, at central, province, and community level, in strengthening food security through an improved on-farm livestock healthcare system. The project was expected to boost the resilience of livelihoods of livestock farmers to animal disease threats, and to contribute to the National Strategies and Priorities for Afghanistan.

The specific tasks assigned as CTA are summarized as follows: (i) Contribute to the improvement of the laboratory capacity to diagnose FMD/PPR; (ii) improve FMD/PPR surveillance and response; and (iii) develop an effective vaccination strategy.

In accordance to the ToRs Giancarlo Ferrari has provided guidance to the Director General of Animal Health and Production Department of MAIL and field officers to the development of national protocols and guidelines related to FMD and PPR with specific reference to: (i) disease detection control and containment; (ii) sample collection; (iii) handling and submission to diagnostic laboratories; (iv) epidemiological investigations for FMD and other diseases outbreaks; (v) design of field studies and (vi) improve the capacity to monitor and evaluate the efficacy and effectiveness of field activities and vaccination programs.

At the time Giancarlo Ferrari left the position all key activities to move Afghanistan to stage 2 of the progressive control pathways for FMD and PPR respectively were fully under implementation.

Professional career (from 8 January 2014 to 29 July 2015)

Employer: FAO - Via delle Terme di Caracalla, 00153 Rome -

Italy Post title: International Consultant

Division: AGAH

The present assignment has been given to Giancarlo Ferrari on when-actually-employed basis in two successive contractual periods. His Terms of Reference were focusing on the following activities: (i) assist the FMD Global Secretariat established within Animal Health Services (AGAH) in FAO-HQ in the preparation of technical documents; (ii) be member of the FAO and OIE GF-TADs working group on FMD and assist in preparing regional roadmap meetings. This task includes revision of FMD national control programs whenever countries claim to move to higher stage of PCP-FMD; (iii) be trainers on the Progressive Control Pathway for FMD as required; (iii) be member of the FAO and OIE GF-TADs working group on PPR and contribute to the formulation of the global strategy for the control and eradication of PPR (officially launched in Abidjan, Cote D'Ivoire on 31 March - 2 April 2015); (iv) under the FAO projects GCP/PAK/123/USA and GCP/PAK/127/USA respectively assist veterinary services of Pakistan in the formulation of control plans for FMD and PPR; (v) under the FAO project OSRO/AFG/402/JPN assist in the early implementation of the project and provide advice to the FAO Representation in Kabul on project implementation framework.

During this period he has collaborated and he is one of the principal authors of the "Foot-and-mouth disease vaccination and post-vaccination monitoring (PVM) guidelines" that have been jointly published by OIE and FAO in 2016.

Professional career (from 1 August 2012 to 7 January 2014)

Employer: Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

Post title: Head of Animal Health sector

Grade: II level

Within this position Giancarlo Ferrari was coordinating the activities of all departments of the Institute dealing with animal health issues, namely: (i) Diagnostic; (ii) Virology; (iii) Serology and Immunology; (iv) Biotechnology. A significant part of the work carried out in this period was to formulate a proposal to the Director General of the Institute on how to reorganize the diagnostic services of the Institute. Of note that the Institute has one central and 8 peripheral branches (named Diagnostic sections) located in Toscana region (5) and Lazio region (3) that were also

under my overall supervision.

During this period of his professional career Giancarlo Ferrari continued to be member of the joint FAO and OIE working group on Foot-and-Mouth disease (FMD) and member of the joint working group on Peste des Petit Ruminants (PPR) as FAO external expert. Part of the work on the PPR working group was to develop a stepwise approach for the progressive control and eradication of PPR.

He was focal point of a specific agreement signed between IZSLT and Istituto Zooprofilattico Sperimentale delle Regioni Lombardia ed Emilia Romagna (IZSLER) to promote and support (through a grant of the Italian Ministry of Health) field and laboratory activities in Libya to assess the epidemiological situation of FMD.

Professional career (from 1 August 2004 to 31 July 2012)

Employer: FAO - Via delle terme di Caracalla, 00153 Rome - Italy

Post title: Project Leader

Grade: P5

Division: AGAH

During his period of employment in FAO Giancarlo Ferrari has coordinated a Regional Project (namely: Controlling Transboundary Animal Diseases in Central Asian countries – GTFS/INT/907/ITA). Direct beneficiary countries were: Afghanistan, Pakistan, Tajikistan, Turkmenistan and Uzbekistan. Diseases of concern of the project were: Rinderpest, Foot-and-Mouth disease (FMD) and Peste des Petit Ruminants (PPR). The project had an initial NTE (Not To Exceed) on 31 December 2007 (phase 1) but has been extended twice and its final NTE was as per 31 July 2012.

One of the main objectives of phase 1 of the project was to verify the health status for Rinderpest and assist the countries to embark in the OIE pathway for being recognized officially free both for Rinderpest disease and infection. The sero-surveillance activities carried out within the beneficiary countries have provided robust evidence that rinderpest is absent in the region and beneficiary countries were eligible for the submission of a dossier to the World Animal Health Organization (OIE). All countries have been recognized officially free from Rinderpest.

Under the framework of the project the candidate has promoted field activities both for Foot-and-Mouth Disease (FMD) and Peste des Petit Ruminants (PPR) aimed also at estimating the economic impact.

Part of this work has been presented in the International Conference on FMD held in New Delhi (India) from 13 to 15 February 2012 (Foot-and-Mouth disease and its effect on milk yield: a preliminary economic analysis on small and medium livestock holders in Pakistan).

A similar study has been carried out in Afghanistan and Tajikistan.

Giancarlo Ferrari has contributed significantly to the development of the Progressive Control Pathway for FMD which is now a joint FAO and OIE tool for the implementation of a Global Strategy that has been officially launched in Bangkok (Thailand) in June 2012 at the second Global Conference for FMD control and was actively involved in the organization of this Conference as member of the joint FAO/OIE working group.

Giancarlo Ferrari within the framework of the GTFS/INT/907/ITA project has assisted in the formulation of technical cooperation programs (TCP) aimed at assisting Central Asian countries to combat against PPR. Of note a TCP implemented in Tajikistan (where PPR was discovered for the first time in 2004) based on a targeted vaccination program.

In addition to the Terms of Reference of the above mentioned project, Giancarlo Ferrari was also involved in activities on prevention and control of Highly Pathogenic Avian Influenza (HPAI) and has promoted the implementation of a Regional Network on Avian Influenza for Central Asia countries that has operated in close parallel with GTFS/INT/907/ITA. The AI network was launched on 1 August 2006 under the framework of ECTAD (Emergency Center for Trans-Boundary Animal Diseases) activities.

Of note the assistance provided to Afghanistan which lead to the implementation of an Emergency Assistance project following the HPAI-H5N1 outbreaks detected in 2006 and the missions carried out in Turkey in 2005, 2006 and 2007 (following the detection of Highly Pathogenic Avian Influenza - HPAI) to assist the country for the implementation of surveillance activities.

He also provided assistance as Animal Health specialist to World Bank for the implementation of Avian Influenza preparedness and control program in Afghanistan, Tajikistan, Turkmenistan and Uzbekistan.

Of note the involvement of Giancarlo Ferrari as Team Leader in an international mission carried out from 4 to 20 May 2009 in Mexico aimed at assisting national authorities to implement control and preventive measures against Influenza virus H1N1.

From May to December 2007 Giancarlo Ferrari was temporarily posted in Ankara (Turkey) to act as Animal Health and Production officer in the FAO Sub-Regional Office for Central Asia. During this period he has promoted a TCP facility on Trans-boundary animal diseases in favor of the Kyrgyz Republic which has led to the formulation of a dossier for the recognition of freedom from Rinderpest and a TCP aimed at improving diagnostic and control capabilities against FMD and PPR.

During this period Giancarlo Ferrari was contracted Professor (academic year 2005-2006) in "Epidemiology of Infectious Diseases" (University of Pisa, Faculty of Veterinary Medicine).

Professional career (from 1996 to 31 July 2004)

Employer: Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

Post title: Head of the Epidemiology Department

Grade: II level

Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

In 1996 Giancarlo Ferrari was appointed as Head of the Epidemiologic Department of the IZSLT.

This unit borne the responsibility for: (i) planning, monitoring and evaluating surveillance systems related to the activities of the IZSLT (Animal Health and Food Safety); (ii) the implementation of the animal identification system in Lazio and Toscana regions; (iii) the Information System of IZSLT; (iv) emergency response; (v) promoting field research activities.

It is noteworthy to mention the contribution that Giancarlo Ferrari gave in coordinating:

(i) the surveillance activities related to an episode of West Nile detected in the Toscana region (1. "*L'episodio di West Nile in Toscana nel 1988*". Ferrari G.; Giovannini A. - 2002 Regione Toscana - Quaderni di Igiene Pubblica e Veterinaria, 14, 59-66; 2. "*West Nile virus epidemic in horses, Tuscany Region, Italy*". Autorino GL., Battisti A., Deubel V., Ferrari G., Forletta R., Giovannini A. (Emerging Infectious Diseases, vol. 8, n. 12, Dec. 2002)

(ii) the surveillance programme in Lazio and Toscana following the detection of Bluetongue in Italy in 2000. He was author of one paper in which it was provided evidence for the very first time of transmission of the Bluetongue vaccine virus to unvaccinated animals (Ferrari G. et al "Active circulation of bluetongue vaccine virus serotype-2 among unvaccinated cattle in Central Italy" – Preventive Veterinary Medicine 68 (2005) 103-113).

In the framework of field research activities the candidate had coordinated different national project (Ministry of Public Health grants). Of note in 2001 a project research grant aimed to estimate the prevalence of Scrapie in Italy and in 2002-2003 a research grant aimed at identifying the main risk factors associated with calf mortality.

Within his tasks the candidate promoted also training courses on Veterinary Epidemiology targeted to veterinarians mainly working within the Public Veterinary Services of Lazio and Toscana regions.

During this time-period (academic year 2003-2004) the candidate was contract Professor in Epidemiology of Infectious Diseases within a post-degree master titled "Small ruminants Animal Health and Production.

Professional career (from 1992 to 1996)

Employer: Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

Post title: Head of Laboratory

Grade: I level

During this period of his professional career Giancarlo Ferrari was mainly involved in the surveillance and control activities on viral diseases such as Foot and Mouth Disease, Classical Swine Fever (and other Pestivirus such as Bovine Viral Diarrhoea - BVD), Swine Vesicular Disease. Of relevance, his activity on Classical Swine Fever both in domestic pigs (detection of low virulent strains) and in wild boars. (1. "*Recent outbreaks of Classical Swine Fever in Lazio region due to low virulent strains*". Ferrari G. et al - Atti S.I.S.Vet., vol. XLVII, 1153-1157, 1993; 2. "*Classical Swine Fever in wild boars in the Toscana area*". Ferrari G. (Report on meeting of National Swine Fever Laboratories within EEC, VI/1337/91-EN, 49-56).

Furthermore in the same period he promoted an experimental control programme for BVD which was presented at the European Symposium on control of BVD-virus infection in cattle (Oslo – Norway 3-5 September 1997 ("*Bovine Diarrhoea Virus (BVD) control programme in an area in the Rome province (Italy)*"). Ferrari G. et al; Veterinary Microbiology, 64, 237 – 245, 1999).

During this period he attended a three year postgraduate school in Biostatistics and Epidemiology. The course was successfully completed in 1996 with the dissertation of a thesis titled "*Study on the occurrence of bovine leptospirosis by serotype Hardjio in dairy farms in Lazio region*".

Professional career (from 1987 to 1992)

Employer: Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

Post title: Veterinary Assistant

Grade: I level

Giancarlo Ferrari was recruited in 1987 as Veterinary Assistant in IZSLT.

His professional career initiated within the Virology Department of IZSLT. Since the very beginning of his work he was involved in the diagnosis and control of important viral diseases such as Foot-and-Mouth disease (present at that time in Italy), Classical and African Swine Fever, Rabies and other major Trans-boundary animal diseases.

In this period he was mainly involved with Classical Swine Fever in wild boars and coordinated the monitoring system to evaluate the efficacy of the vaccination campaign against FMD in Lazio and Toscana regions.

Professional career (from 1984 to 1987)

Employer: Istituto Zooprofilattico Sperimentale delle regioni Lazio e Toscana (IZSLT).

Via Appia Nuova n. 1411, 00178 Rome (Italy).

Post title: Volunteer

After his graduation from the University of Pisa the candidate was a volunteer at IZSLT.

He worked mainly on Brucellosis and carried out field activities within the framework of a program aimed to improve reproductive performances in dairy cattle and combat calf mortality in rural areas in Lazio region.

Rome, 15 November 2022