

PERSONAL INFORMATION

Edoardo Pozio  
Via B. Eustachio 11, 00161 Rome, Italy



+39 06 4402 881 +39 335 6782 705

edoardo.pozio@iss.it, edoardo.pozio@gmail.com



Replace with type of IM service Replace with messaging account(s)

Sex male | Date of birth 19/01/1952 | Nationality Italian

**Fiscal code PZODRD52A19H501H**

**Area of professional competence Foodborne parasites**

WORK EXPERIENCE

Replace with dates (from - to)

**Employment:**

- 1991- 2018, Research Director, Department of Infectious Diseases, Istituto Superiore di Sanità (ISS), Rome, Italy
- 1982-1991, Research scientist at the Laboratory of Parasitology, ISS
- 1981-1982, Technical assistant at the Laboratory of Parasitology, ISS
- 1977-1981, Research scientist at the Laboratory of Medical Zoology, Grosseto, Italy

**Appointments at ISS:**

- 2017 – 2018, Director of the Unit of Foodborne and Neglected Parasites
- 2004 – 2017, Director of the Unit of Gastroenteric and Tissue Parasitic Diseases
- 1986 – 2004, Director of the Unit of Helminthology

**Professional and advisory:**

- 2014 – 2018, Expert for Foodborne Parasites of the European CDC
- 2012 – 2018, Expert for Foodborne Parasites of the Food and Agriculture Organization
- 2006 - 2018, Head of the European Union Reference Laboratory for Parasites of the European Commission;
- 2006 - 2018, Head of the National Reference Laboratory for Trichinella
- 2004 – 2018, Expert for Trichinella for The European Food Safety Agency
- 1992 - 2018, Expert for Trichinella of the European Commission
- 1992 – 2018, Head of the Reference Laboratory for Trichinellosis of the World Organization for Animal Health
- 1988 – 2018, Head of the International *Trichinella* Reference Centre of the International Commission of Trichinellosis

Business or sector Parasitology, foodborne parasites

EDUCATION AND TRAINING

Replace with dates (from - to)

Doctor in Biological Sciences, University of Rome, Rome, April, 1975; dissertation thesis on zoology and ecology of vertebrates;

Replace with EQF (or other) level if relevant

Main field of investigations:

2007 - 2018, *Opisthorchis felineus* has been rediscovered in Italy; the cycle in the intermediate and final hosts has been described as well as large human outbreaks which involved Italian and foreign patients; the clinical picture of *O. felineus* in humans, as well as the diagnosis and treatment, have been described;

2004 - 2018, *Echinococcus multilocularis* has been discovered in Italy and the study of its population structure has revealed its autochthonous origin; molecular epidemiological studies have shown the circulation of *Echinococcus ortleppi* in Italy, the circulation of the camel strain (G6 genotype) of *Echinococcus granulosus* in humans from Kenya, and a clinical correlation between the percentage of the G1 genotype and the geographical regions of Eurasia was observed,

2000 - 2018, *Giardia* in animals and humans (cell biology, biochemistry, pathology, and molecular epidemiology); among others, the structure and function of the 14-3-3 protein of *Giardia* has been deeply investigated up to its crystal structure; 1994 - 1999, human microsporidiosis (biology, pathology, clinical patterns in humans, molecular epidemiology);

1989 - 2018, *Cryptosporidium* and cryptosporidiosis in animals and humans (animal models, biology, immunology, serodiagnosis, cell biology, pathology, clinical patterns in humans, epidemiology, molecular epidemiology, diagnosis and treatment); among others, *Cryptosporidium parvum* at different developmental stages modulates host-cell apoptosis in vitro;

1985 - 2018, *Trichinella* and trichinellosis was the main subject of investigation. The most important results were in the field of the *Trichinella* taxonomy with the description of two clades (encapsulated and non-encapsulated) in the genus and of eight new species/genotypes; the identification that species/genotypes of the encapsulated clade infect only mammals and the species of the non-encapsulated clade infect mammals and other vertebrate classes; the description of two *Trichinella* species infecting both mammals and reptiles, i.e. the only example of metazoan parasites known to complete their entire life-cycle independently of whether the host is homeothermic or poikilothermic. Furthermore, the host spectrum, epidemiological and geographical patterns of the most important *Trichinella* taxa were identified. A distinctive pattern for recognizing *Trichinella* spp. infections in humans and pigs by Western blots has been identified. Among others, the role of rats in the epidemiology of *Trichinella spiralis* has been strongly reconsidered; the importance of wild carnivore mammals as *Trichinella* reservoirs of most taxa has been strongly highlighted; all contemporary species of *Trichinella* diversified within the last 20 million years through geographic colonization and pervasive host switching among foraging guilds of obligate carnivores; the worldwide occurrence and impact of human trichinellosis in the last decades was documented; the inter- and intra-specific population structure of *T. spiralis* was investigated showing that this parasite species harbours less genetic variation than other nematodes, it originates from Asia and it was imported in Europe and America continent in the last centuries;

1980 - 2018, other infectious pathogens and/or diseases were, among others, *Toxoplasma*, *Cysticercosis*, *Dientamoeba fragilis*, *Anisakis* spp., *Mollicola horridus*, pulmonary capillariasis, opportunistic parasites in HIV-positive patients, influenza viruses, herpesvirus-8, and venomous snake bites in Italy.

1977 - 1985, epidemiology of leishmaniasis in reservoir animals, vectors and humans of Italy; a natural cycle of visceral leishmaniasis (*Leishmania infantum*) in wild rodents was discovered in Italy; the role of *L. infantum* as aetiological agent of both visceral and cutaneous leishmaniasis was documented;

PERSONAL SKILLS

Mother tongue(s)  
Other language(s)

		Italian			
		UNDERSTANDING		SPEAKING	WRITING
		Listening	Reading	Spoken interaction	Spoken production
English		Independent user	Independent user	Independent user	Independent user

Communication skills ▪ good communication skills gained through my experience in the international scientific collaboration

Organisational / managerial skills ▪ Responsible of a team of more than 18 persons

Computer skills ▪ good command of Microsoft Office™ tools

ADDITIONAL INFORMATION

<b>Publications</b>	author or co-author of more than 450 papers on international peer-reviewed journals (H index 56), and 27 book chapters.
<b>Presentations</b>	Invited speaker at international and national Congresses, Conferences, and Workshops
<b>Projects</b>	Principal investigator of international and national research projects in the field of foodborne parasites
<b>Honours and awards</b>	<p>2002, Honorary Member of the Polish Society of Parasitology</p> <p>2003, Jan Hovorka Award of the Slovak Society of Parasitology</p> <p>2014, Distinguished Parasitologists Award of the World Federation of Parasitologists</p> <p>2015, Honorary Member of the International Commission on Trichinellosis</p> <p>2015, Honorary Member of the Hungarian Society of Parasitologists</p> <p>2016, Senior Scientist Award of the European Federation of Parasitologists</p>
<b>Memberships</b>	<ul style="list-style-type: none"> <li>▪ 1988 – 2000, Treasurer of the Italian Society of Parasitology</li> <li>▪ 1988 – 2008, Member of the Editorial board of Parassitologia</li> <li>▪ 1993 – 1996, vice President of the International Commission on Trichinellosis</li> <li>▪ 1997 – 2009, Member of the Editorial board of Annali dell'Istituto Superiore di Sanità</li> <li>▪ 1998 – 2002, Member of the Editorial board of Folia Parasitologica</li> <li>▪ 2000 – 2004, President of the International Commission on Trichinellosis</li> <li>▪ 2000 – 2008, vice President of the Italian Society of Parasitology</li> <li>▪ 2000 – 2011, Member of the Editorial board of the International Journal for Parasitology</li> <li>▪ 2000 - to the present, Member of the Editorial board of Acta Parasitologica</li> <li>▪ 2009 - 2016, Treasurer of the European Federation for Parasitologists</li> <li>▪ 2012 - to the present, Member of the Editorial board of Parasite</li> </ul>

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Edoardo Pozio



May, 2019