

SERENA CAVALLERO

Curriculum Vitae

Versione priva di dati sensibili ai fini della pubblicazione in conformità a quanto prescritto dall'art. 4 del Codice in materia di protezione dei dati.

Rome, 19/01/2022

Part I – General Information

Full Name	SERENA CAVALLERO
Spoken Languages	ITALIAN, English

Part II – Education

IIA – Academic Degrees and Titles

Type	Year	Institution	Notes (Degree, Experience,...)
National Scientific Qualification	10/07/2020 to 10/07/2029	Ministero Istruzione, Università e Ricerca	Associate Professor qualification (Scientific sector Infective and Parasitic diseases of animals and humans VET/06 - according to Italian national criteria)
PhD	2012	Sapienza University of Rome	PhD in Public health sciences and microbiology (Parasitology). Thesis title: "Sistematica molecolare dei Nematodi Anisakidi (<i>Anisakis</i> , <i>Pseudoterranova</i> e <i>Contracaecum</i>). Tutor: Prof Stefano D'Amelio
Master of science degree	2008	Sapienza University of Rome	Msc in Applied cellular biology (<i>summa cum laude</i>). Thesis title: Specie gemelle nel genere <i>Anisakis</i> : ipotesi di una zona ibrida nello Stretto di Gibilterra. Supervisors: Prof Stefano D'Amelio and Vincenzo Petrarca
Bachelor degree	2007	Sapienza University of Rome	Bachelor in Biological Sciences [L (DM 509/99) - ORDIN. 2002] (classe 12) Thesis title: Caratterizzazione molecolare di <i>Ascaris</i> spp proveniente da diverse zone geografiche. Supervisors: Prof Stefano D'Amelio and Vincenzo Petrarca

IIB – Additional Training

Type	Year	Institution	Notes
Training Course	2019	European Bioinformatic Institute EBI-EMBL (UK)	Training title: "Analysing non-coding RNA with RNACentral and Rfam" Hinxton, Cambridge (UK)
Workshop	2019	International Society for Extracellular Vesicles	Helminth Extracellular Vesicles (Hydra – Greece)
Training Course	2016	Stazione Zoologica Anton Dohrn	Comparative methods in

Training Course	2016	Napoli (IT) ECIP European center of Ichtyo-Parasitology and Masarik University	evolutionary biology, Napoli Summer school Fish Parasitology Brno, Czech Republic
Training Course	2016	Elixir and University of Naples	RNA-SEQ Data analysis
Training Course	2011	ESCMID, WHO <i>Echinococcus</i> group and University of Pavia	Cystic Echinococcosis: Burden of Disease in the EU and Clinical Management (Pavia, Italy)
Training Course	2010	European Molecular Biology Organization EMBO	Computational Molecular Evolution, Heraklion (Greece)
Training Course	2009	Ecole Normal Superior, Lyon	Comparative genomics (Lyon, France)

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2018	to date	Dept. of public health and infectious diseases, Sapienza Univ. of Rome	Research Fellow VET/06 - Ricercatore a t.d. - t.defin. (art. 24 c.3-a L. 240/10)
01/03/2017	28/02/2018	Dept. of public health and infectious diseases, Sapienza Univ. of Rome	Post-doc in Comparative transcriptomic analyses on Anisakid pathogenic species
01/08/2015	31/07/2016	Dept. of public health and infectious diseases, Sapienza Univ. of Rome	Post-doc in One-Health approach: genetic variability in chamois subspecies in relation to epidemics
01/06/2013	31/05/2015	Dept. of public health and infectious diseases, Sapienza Univ. of Rome	
15/01/2012	14/01/2013	Department of Clinical Science and Translational Medicine University of Rome Tor Vergata	Post-doc in Microbiological safety in thermal bath facilities

IIIB – Other Appointments and consulting activities

Start	End	Institution	Position
11/2021	12/2021	European commission	Expert evaluator for MSCA European Projects
09/2021	10/2021	ANVUR - MIUR	Expert evaluator - VQR 2015-19
01/10/2020	30/10/2020	National Science Center, Poland	Expert evaluator for National Projects
11/2019	12/2019	European commission	Expert evaluator for MSCA

		European Projects	
09/02/2017	16/03/2017	Department of veterinary medicine University of Cambridge	EMBO short term fellowship
08/2016	01/2017	Dept. of public health and infectious diseases, Sapienza Univ. of Rome	FILAS project, Regione Lazio fellowship (Research Fellowship "Characterization of agents of zoonotic helminthiasis and risk map evaluation transmission in the Mediterranean basin")
12/2012	05/2013	Institute of Parasitology, Slovak Academy of Science	Sapienza training abroad fellowship
03/2010	04/2010	Department of Nematology, University of California (Davis)	Foreign Ministry, Technical and Scientific Cooperation fellow between Italy and U.S.A fellowship

Part IV – Teaching experience

IVA – Lectures and teaching assignments

Year	Institution	Lecture/Course
2019-2021	Sapienza-Tuscia corso interaneo	"Food-borne parasites"/Corso di Scienze e tecnologie alimentari
2021	Sapienza University of Rome Facoltà di Farmacia e Medicina	Monographic seminar "Gastrointestinal nematodes"/Corso di microbiologia (ADE)
2021	Sapienza University of Roma Facoltà di Farmacia e Medicina	Monographic seminar "Work-related parasitic zoonoses"/Corso di laurea in Tecnici della prevenzione negli ambienti e nei luoghi di lavoro (ADE)
2020	Sapienza University of Rome Facoltà di Farmacia e Medicina	Monographic seminar A focus on <i>Anisakis</i> and anisakidosis/ Corso di microbiologia (ADE)
2019	Sapienza University of Rome	Monographic seminar "Deepen the Cystic and alveolar echinococcosis"/ Corso di microbiologia (ADE)
2018	Sapienza University of Rome	Monographic seminar "Extracellular vesicles and host-parasite interactions" Dottorato in Malattie Infettive, Microbiologia e Sanità Pubblica
2018	Unirelab - MIPAAFT	Molecular systematics and population genetics/ ANGQ theoretical and practical course (Associazione Nazionale Garanzia della Qualità)
2014	SOIPA (Italian society for parasitology)	Theoretical and practical course on molecular systematics (phylogeny)
2009-	Sapienza University of Rome Corso di	Practical course in parasitology and diagnostic

2015	Laurea in Tecniche di Laboratorio Biomedico e Corso di Laurea in Medicina e Chirurgia, Facoltà di Farmacia e Medicina	approaches - Teaching assistant of Prof. Stefano D'Amelio
2013	Institute of Parasitology, Slovak academy of sciences	Molecular systematics and evolution (Theoretical and practical course)
2009-to date	Sapienza University of Rome Facoltà di Farmacia e Medicina	Member of the Examining Board as expert in the field for Microbiology and Laboratory medicine (Parasitology module) for Medicine faculty

IVB - Student Tutorships

2013-to date	Dottorato di ricerca in Malattie Infettive, Microbiologia e Sanità Pubblica	Co-supervisor of PhD theses (Students: Barbara Gambetta, Antonella Pizzarelli, Ilaria Bellini and Silvia Rondon) Supervisor: Prof. Stefano D'Amelio
2009/2010 to date	Corso di Laurea in Tecniche di Laboratorio Biomedico - Facoltà di Farmacia e Medicina – Università di Roma “Sapienza” sede di Rieti	Co-supervisor of Bachelor theses (Students: Alessia Di Filippo, Piera Turchetti, Michela Maoli, Francesca Belloro, Flavia Salvaggio) Supervisor: Prof. Stefano D'Amelio
2017-2020	Corso di Laurea in Scienze e Tecnologie alimentari, corso Interateneo Sapienza Tuscia	Co-supervisor of Master thesis (Students: Antonella Pizzarelli, Ottavia Rossetti) Supervisor: Prof. Stefano D'Amelio
2009/2010 to date	Corso di Laurea in Tecnici della prevenzione negli ambienti e nei luoghi di lavoro - Facoltà di Farmacia e Medicina – Università di Roma “Sapienza” sedi di Roma e Rieti	Co-supervisor of Bachelor thesis (Students: Chiara Desantis, Monica Cavalli, Stefania Federici, Sara Migliarelli, Cinzia Maticera, Francesco Sciacca). Supervisor: Prof. Stefano D'Amelio
2013/14	Corso di Laurea magistrale in Scienze Biologiche - Facoltà di Scienze Matematiche, Fisiche e Naturali - Università di Roma 3	Co-supervisor of Master thesis (Student: Valentina Amprimo). Supervisor: Prof. Marco Bologna
2010/11 to date	Corso di Laurea in Ecobiologia - Facoltà di Scienze Matematiche, Fisiche e Naturali – Università di Roma “Sapienza” –	Supervisor of Master thesis (Students: Antonio Starita, Elena Nicodemo, Valentina Perri, Vittoria Di Giovanni, Daniela Caputo) Supervisors: Prof Stefano D'Amelio, Prof Vincenzo Petrarca
2010/2015	Corso di Laurea Specialistica in Biologia ed evoluzione umana - Facoltà di Scienze Matematiche, Fisiche e Naturali - Università di Roma Tor Vergata	Co-supervisor of Master thesis (Students: Francesca Pacella, Valentina Masella). Supervisor: Prof. Federica Berrilli

Part V - Society memberships, Awards and Honours

Part VA - Society memberships and awards

Year	Title
2010	Member of the Italian society for parasitology SOIPA (Società Italiana di Parassitologia)
2011	Abilitation to Biology profession (Sapienza University of Rome)
2015	Member of the European society of Clinical Microbiology and Infectious Diseases (ESCMID)
2012	Awards for the “best young researcher” for SOIPA
2016	Awards for the “best young researcher” for SOIPA
2018	Awards for the “best young researcher” for SOIPA
2018	Member of Società scientifica veterinaria per l’apicoltura (SVETAP) as extraordinary associate
2020	Member of the European Wildlife diseases association EWDA
2021	Awards for the “best oral talk in human parasitology” for SOIPA
2021	Member of the International Society of Extracellular Vesicles

Part VB – Conference chairs and Invited talks

1. **Invited lecture** at the 13th European multicolloquium of parasitology EMOP (2021) Cavallero et al. A miRNA catalogue from third-stage larvae and exosomes of *Anisakis pegreffii*.
2. **Chairperson** at the 13th European multicolloquium of parasitology EMOP (2021) for the Fish Parasitology session
3. **Chairperson** at the X SEMINAR PhD Day Infectious Diseases, Microbiology and Public Health at the ISS Rome (2019) for the moderation of the session Infectious Diseases, Microbiology and Parasitology.
4. **Invited speaker** at Chamois International Congress, Majella National Park, Italy (2013). Cavallero S, Vichova B, Chovancová B, Paule L, Snabel V, D’Amelio S. Genetic variability at adaptive and neutral markers in the endangered tatric chamois subspecies *R. r. tatrica*. Chamois International Congress, Majella National Park, 17-20 June, Lama dei Peligni, Italy.

Part VC – Editorial Boards and Reviewer experience

Year	Journal(s) or Research program
From 2019	Guest associated editor for the Frontiers in Veterinary Sciences journal
2021	Editor for the special issue “Women in Parasitology” for Frontiers in Veterinary Sciences journal
2020	Editor for the special issue “Zoonotic Parasitic Diseases in a Changing World ” for Frontiers in Veterinary Sciences journal
2020	Editor for the special issue “Novel omics studies on Anisakid nematodes” for Genes journal
From 2016 to date	Associate editor for Journal of Food Quality and Hazards Control
From 2008 - to date	Journal Reviewer: BMC Genomics, Infection Genetics and Evolution, Journal of Evolutionary Biology, Molecular Phylogenetics and Evolution, Parasite, Parasites & Vectors, PLoS ONE, PLoS NTD, Veterinary Parasitology, Parasitology Research, Pathogens, Life (MDPI), Hindawi Biomed Research, Acta Tropica, Acta Parasitologica, Helminthologia,

Frontiers in Veterinary Science, Fishes, Food Control, International journal of environmental research and public health, Microorganisms, Pharmaceuticals.

Part VD – Organization of meetings

Year	Meeting
2014	Member of the Organizing Committee of the XXVIII National Congress of Parasitology (Sapienza University of Rome, 24-27 June 2014)

Part VE – Dissemination of knowledge (Terza Missione)

1. From 2015 founding partner of BUONO, Associazione di promozione sociale www.ilmielebuono.it (amis: scientific dissemination, public engagement on nature protection by the world of bees).
2. Videointerview RAI2 Medicina 33 “le zoonosi: cani gatti e parassiti” (December 2021)
3. Member of the Scientific and technical committee for the Association URCA (Unione Regionale Cacciatori Appennino) and Regione Marche from 2020
3. Videointerview "sushi and anisakis" - youtube channel Microbiologo digitAle (February 2020)
4. Dissemination article “La salute delle api al XXX Congresso SOIPA” - La Settimana Veterinaria (N° 1062 2018)
5. Dissemination article “Elmintiasi in suini da allevamento intensivo: rilievi ispettivi al macello” - SUMMA animali da reddito Le point veterinaire Italie (n°7 - 2013)

Part VI - Funding Information

Part VIA – grants as PI-principal investigator or I-investigator (other PI are indicated)

Year	Title	Program	Grant value euro
2021	PI - Exploring pathogenicity and tumorigenic potential of <i>Anisakis pegreffii</i> using Intestinal Organoids	Starting grant Pasteur Institute call2020 (Italia)	40.000
2021	PI - Intestinal Organoids as a new model to unravel the role of exosomes in host-nematode interactions	Starting grant ESCMID	20.0000
2019	PI - Deciphering host-parasite interactions using an in-vitro system with Caco-2 cells and <i>Anisakis</i> exosomal microRNA	Starting grant SAPIENZA	3.000
2019	Project manager - Il buono di un viaggio in Oasi	Valorizzazione delle risorse naturalistiche e della tutela della biodiversità del municipio XIII (Roma Capitale).	6.700
2018	Project manager - Roma ti apiamo (project on scientific dissemination)	Eureka project (Roma Capitale)	19.950
2016	PI- Cryptic species in whipworms from humans and non-human primates: zoonotic risk in wildlife	Sapienza starting grant	2.000

	and captivity		
2015	PI- Molecular characterization of <i>Trichuris</i> spp. from captive and domestic rodents, zoonotic implication	SOIPA starting grant	4.000
2015	PI-Comparative analyses on transcriptomes of anisakid pathogenic species	Starting grant ESCMID	20.000
2014	PI- Genotyping <i>Ascaris</i> spp. (Nematoda: Ascaridida) with High Resolution Melting approach	Sapienza starting grant	2.500

Part VIB – Contribution to funded projects as participant

2021. Organoidi: una nuova piattaforma per lo studio dell'interazione ospite-microrganismo (Responsabile: Dr Carlo Zagaglia) Finanziamento medie attrezzature scientifiche di Ateneo - Sapienza Università di Roma.

2020. The genome of the zoonotic parasite *Anisakis pegreffii* as a framework for deepen the knowledge on host-parasite interaction. (Responsabile: Prof S D'Amelio) Progetto di ricerca medio, Sapienza Università di Roma.

2018. The host-parasite interface: characterization of non-coding RNAs in exosomes of anisakid nematodes of human health concern. (Responsabile: Prof S D'Amelio) Progetto di ricerca medio, Sapienza Università di Roma.

2018-2020. Echinococcosi cistica....al lavoro: azioni in-formative per la prevenzione e gestione del rischio zoonosico nella regione Sardegna. Azioni prevenzionali in ambito regionale in materia di salute e sicurezza sul lavoro, INAIL (Ente capofila: Istituto Zooprofilattico Sperimentale della Sardegna, Dr. Giovanna Masala).

2016. Indagini sulla relazione causale fra eterozigosi MHC, fertilità e parassiti in una popolazione di cervo nel Parco Nazionale dello Stelvio (Parco Nazionale dello Stelvio, Dr. Luca Corlatti)

2015. Non-invasive approach to wild and captive primates studies". Unità di Primatologia del CNR Roma (Dr Visalberghi, Dr Truppa)

2011-2014. Genomica e interazione ospite-agente patogeno: un modello di studio nella prospettiva One-Health – Progetto PRIN (Responsabile Prof Stefano D'Amelio)

2012. Collaborator for "Real Time PCR in parassitologia: dalla ricerca di base alle applicazioni diagnostiche". PI: A. della Torre (Sapienza). Finanziamento grandi attrezzature scientifiche di Ateneo Sapienza Università di Roma.

2010-2013. Study on the presence and distribution of nematode larvae of the family Anisakidae in anchovies (*Engraulis encrasicolus*) fished on the Lazio coast and in euryhaline fish species farmed in sea cages – Progetto di ricerca corrente Istituto Zooprofilattico sperimentale del Lazio e della Toscana (Dr. Claudio De Liberato responsabile scientifico)

2009-2012. Surveillance of priority and emerging diseases in wildlife in the Alpine Central and Eastern Europe – Progetto Ricerca corrente Istituto Zooprofilattico Sperimentale delle Venezie (Dr. Carlo Citterio responsabile scientifico)

2008-2012. Collaborator for Studies on the presence of *Anisakis* spp in Italian seas: molecular characterization and database elaboration for epidemiology” Progetto di Ricerca Corrente 2008 (Istituto Zooprofilattico Sperimentale della Sicilia Dr. Antonella Costa)

Part VII – Research Activities

My interests in research are focused on the understanding of infection dynamics as crucial aspects in host-parasite interplay. Research activities in this field included molecular phylogenetics, population genetics and omics approaches applied to infective parasitic stages, mainly zoonotic helminths, to explore genetic variation in relation to epidemiological aspects as well as molecules and factors involved in pathogenesis mechanisms. More recently, I was fascinated by the extracellular vesicles and by advanced in-vitro models organoid-based. Moreover, host genetic background may play a role in the ability of hosts to survive to infections. Polymorphisms occurring in genes involved in immune response (i.e. MHC class I and II molecules) show a high adaptive value for vertebrate hosts, and their patterns may reveal important traits as susceptibility or resistance. Given the worldwide distribution of soil-transmitted helminths and their inclusion by WHO in Neglected Tropical Diseases list, my research activity focused on cestodes and nematode agents of zoonotic infections (i.e. *Echinococcus*, *Ascaris*, *Trichuris*, *Anisakis*), with particular attention in the use of molecular systematics and epidemiological tools, in the framework of One-health approach.

Keywords: one health, zoonosis, STH, NTDs, transcriptomic, molecular markers, molecular phylogeny

Major international and national collaborations

1. Slovak academy of Science, Institute of Parasitology (Dr. Viliam Snabel) Molecular, biochemical and immunological studies on zoonotic helminths of public health concern.
2. IZS Lazio e Toscana (Dott. Claudio De Liberato) Epidemiology and zoonotic risk related to helminths infecting wild, captive and domestic animals.
3. Servizio di Ecopatologia della fauna selvatica dell'UAB (Università Autonoma di Barcellona, Prof. Ignasi Marco, Santiago Lavín, Jorge R. López-Olvera). Host-pathogen interaction in mountain ungulates.
4. Programma di ricerca Forst - Fondazione per la ricerca scientifica termale III 2010. Toward the establishment of a Manual of the Management of Microbiological Safety in Thermal Spa Structures” (Prof. David Di Cave, Dr. Federica Berrilli)
5. Università di Napoli Federico II. Utilizzo di approccio di bioinformatica per lo studio di trascrittomi di patogeni zoonotici (Prof. Marco Salvemini)
6. Department of Clinical Medicine - Department of Infectious Diseases University of Aarhus Host-pathogen interaction studies using extracellular vesicles and their cargo. (Prof. Peter Nejsum)

Year	Research
2011-2016	Molecular patterns of infection, variation in the genetic structure and in immune response, selection on disease-related traits, to be explored in the framework of host and parasite interactive model and under the one-health concept. The model was represented by mountain ungulates (<i>Rupicapra</i> spp.) and a wide array of infecting organisms ranging from viruses to bacteria, protozoans, helminths and parasitic arthropods. Principal collaborators Dr. Luca Citterio (IZS venezie), Prof Luca Rossi (Università di Torino), Prof Paolo Lanfranchi (Università di Milano), Prof. Marco Ignasi and Prof. Jorge Ramon Lopez Olvera (Università autonoma di Barcellona, Spagna) My role as post-doc was to characterize genetic polymorphisms at MHC class II of vertebrate host in

	relation to epidemic event occurring in time, to depict signs of selective pressure (and positive or balancing selection) and potential susceptibility and resistance. Papers related to this research line: from IXA section (27, 38) from IXB section (3)
2006-today	Molecular, biochemical and immunological characterization of helminths of public health concern with particular attention to molecular systematics and population genetics, in relation to geographical distribution and infectivity (zoonotic potential), with particular attention for molecular diagnosis. Since my bachelor graduation, I started to carry out molecular systematics studies and to collaborate with the Parasitological Institute of the Slovak academy of Science thanks to the long pre-existent collaboration with Prof. Lia Paggi and Prof Stefano D'Amelio. I was involved in the application of molecular characterization, phylogenetic inference and population genetics of animal and human derived samples, to depict route of transmission, strains circulation and zoonotic potential. Principal collaborators: Dr. Viliam Snabel (Slovak academy of sciences) Papers related to this research line: one paper in prep (Smigova et al); from IXA section (2, 3, 4, 5, 7, 8, 12, 15, 21, 25, 30, 36, 39) from IXB section (4); from IXC section (1, 3) and from IXD section (2)
2015-today	Application of omic technique to depict pathogenic behavior of infective larval stages of anisakid nematodes, zoonotic marine parasites, and to understand host immune response. In this regard, the project "Comparative analyses on transcriptomes of anisakid pathogenic species" was aimed to explore entire repertoire of molecules produced by parasites and a specific tissue (pharyngeal region), supposed to be involved in pathogenic behavior. Transcriptomes from the two main agents of anisakiasis (<i>Anisakis pegreffii</i> and <i>Anisakis simplex</i> sensu stricto) were obtained, together with a non-pathogenic species (<i>Hysterothylacium aduncum</i>), allowing comparisons aimed to depict traits of infectivity and zoonotic potential. With the project "The host-parasite interface: characterization of non-coding RNAs in exosomes of anisakid nematodes of human health concern", a complementary approach is allowing to depict the role of regulatory factors of pathogenic origin, with particular attention to microRNAs. Moreover, recently I started to contribute to the study of host cellular response to treatment with parasitic derived material using classic and advance model as organoids, to depict patterns of early and later allergic and inflammatory responses. Principal collaborators: Prof. Cinzia Cantacessi (Cambridge University), Prof. Marco Salvemini (Università di Napoli), Prof Fabrizio Lombardo (Sapienza University of Rome), Prof Bruno Arcà (Sapienza University of Rome), Dr. Ivona Mladineo (Institute of Parasitology Biology Centre, ASCR, České Budějovice. My role as PI was to elaborate study research, to design experimental molecular approach and to become confident with theoretical and practical bioinformatics aspects. Papers related to this research line: two in prep manuscripts (Mladineo et al and Cavallero et al); from IXA section (11, 22) from IXB section (2); from IXC section (2) and from IXD section (1)
2010-today	Surveillance on the presence of anisakid nematodes in fishes of economic relevance, with the application of molecular techniques to parasitic species identification and for diagnosis of human cases. Main collaborations: National reference laboratory for anisakiasis (IZS sicilia, Dr. A Costa and G Cammilleri), Istituto Zooprofilattico sperimentale delle Venezie (Dr. G Arcangeli), Istituto Zooprofilattico sperimentale Lazio e Toscana (Dr. C De Liberato, Dr T Bossù). Papers related to this research line: from IXA section (16, 18, 23, 24, 28, 31, 33, 34, 35, 37, 40, 41, 42, 43); from IXC section (4)
2010-today	Molecular epidemiology and phylogeny studies of zoonotic helminths circulating in wild and captive animals in Italy, in collaboration with University of Rome Tor Vergata, University of Pisa, Istituto Zooprofilattico sperimentale Lazio e Toscana. My role was mainly related to the application of molecular technique for the identification of species and genotypes, to the elaboration of phylogenetic relationships between population and species, with particular

	attention to zoonotic potential and to the interface among wild-domestic-captive and human. Principal collaborators: Dr. F Berrilli, Dr. C De Liberato, Prof. A. Massolo
	Papers related to this research line: from IXA section (1, 9, 19, 20); from IXB section (5)

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers	50	scopus	2010	2021
Book chapters	4	scopus	2010	2021
Editorials	3	scopus	2010	2021
Total Impact factor	104,107			
Total Citations	559			
Total Citations last 10 years (2012-2021)	547			
Average Citations per Product	11,18			
Hirsch (H) index	13			
Normalized H index*	1,08			

*H index divided by the academic seniority.

Part IX – Publications (with impact factor and number of citations; papers in which the candidate is corresponding author are marked with *)

IXA research articles

Three research articles are still unpublished (finalizing the submission):

Smigova J, Snabel V, **Cavallero S**, Smiga L, Soltys J, Papj J, Papajova I. Neglected diseases – Parasitic infections among Slovakian children from different populations and genotypes of *Giardia duodenalis* (in revision to Microorganisms MDPI).

Mladineo I, Hrabar J, Petrić M, Salvemini M, D'Amelio S, **Cavallero S**. Rat and fish peripheral blood leukocytes respond distinctively to *Anisakis pegreffii* (Nematoda, Anisakidae) crude extract. (in preparation)

Cavallero S, Bellini I, Pizzarelli A, Arcà B* D'Amelio S. A miRNAs catalogue from third-stage larvae and exosomes of *Anisakis pegreffii* provides new clues for host-parasite interplay. (in preparation)

Bellini, Scribano D, Ambrosi C, Sarshar M, Palamara AT, D'Amelio S, **Cavallero S**. Inflammatory mechanisms in Caco-2 cells stimulated with *Anisakis*-derived messengers of pathogenicity. (in preparation)

1. **Cavallero, S.**, Montalbano Di Filippo, M., Mori, E., Viviano, A., De Liberato, C., Sforzi, A., D'Amelio, S., Berrilli, F. Morphological and molecular characterization of *Trichuris* sp. (nematoda: Trichuridae) in crested porcupines (*Hystrix cristata*; rodentia: Hystricidae) from Italy (2021) Diversity, 13 (12), art. no. 628, . DOI: 10.3390/d13120628 (IF 2.05)
2. Romano, G., Pepe, P., **Cavallero, S.**, Cociancic, P., Di Libero, L., Grande, G., Cringoli, G., D'Amelio, S., Rinaldi, L. Ascariasis in a 75-year-old man with small bowel volvulus: a case report (2021) BMC Infectious Diseases, 21 (1), art. no. 1045, DOI: 10.1186/s12879-021-06718-z (IF 3.09)
3. **Cavallero, S.***, Rondón, S., Monterrosa, I.A., Šnábel, V., Papajová, I., Goldová, M., Štrkolcová, G., Caraballo, L., Acevedo, N., D'Amelio, S. Genotyping of *Ascaris* spp. infecting humans and pigs in Italy, Slovakia and Colombia (2021) Infection, Genetics and Evolution, 94, art. no. 104997 DOI: 10.1016/j.meegid.2021.104997 (IF 3.34)

4. Peradotto, M., Rolle, E., Zaccaria, T., **Cavallero, S.**, Bondi, A., Bottino, P., De Angelis, C., D'Amelio, S., Saracco, G.M., Cavallo, R. An unpleasant souvenir: Endoscopic finding of *Trichuris trichiura* (Nematoda: Trichuridae) (2021) Parasitology International, 80, art. no. 102220 DOI: 10.1016/j.parint.2020.102220 (IF 1.86)
5. Šnábel, V., Kuzmina, T.A., Antipov, A.A., Yemets, O.M., **Cavallero, S.**, Miterpáková, M., D'Amelio, S., Antolová, D., Vasilková, Z., Sałamatin, R. Molecular Study of *Echinococcus granulosus* Cestodes in Ukraine and the First Genetic Identification of *Echinococcus granulosus* Sensu Stricto (G1 Genotype) in the Country(2021) Acta Parasitologica, DOI: 10.1007/s11686-021-00450-z (IF 1.44)
6. **Cavallero, S.***, Montalbano Di Filippo, M., Rondón, S., De Liberato, C., D'amelio, S., Friedrich, K.G., Berrilli, F. Nuclear and mitochondrial data on *Trichuris* from *Macaca fuscata* support evidence of host specificity(2021) Life, 11 (1), art. no. 18, pp. 1-9. DOI: 10.3390/life11010018 (IF 2.99)
7. Panayotova-Pencheva, M., Šnábel, V., Dakova, V., Abanová, V., **Cavallero, S.**, Trifonova, A., Mirchev, R., Hurníková, Z., Vasilková, Z., Miterpáková, M. *Dirofilaria immitis* in Bulgaria: The first genetic baseline data and an overview of the current status (2020) Helminthologia (Poland), 57 (3), pp. 211-218. DOI: 10.2478/helm-2020-0026 (IF 0.67) Cited 1 time.
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IXB Reviews

1. Rondón, S., **Cavallero, S.**, Renzi, E., Link, A., González, C., D'Amelio, S. Parasites of free-ranging and captive american primates: A systematic review (2021) Microorganisms, 9 (12), art. no. 2546, . DOI: 10.3390/microorganisms9122546 (IF 4.12)
2. D'Amelio, S., Lombardo, F., Pizzarelli, A., Bellini, I., **Cavallero, S.*** Advances in omic studies drive discoveries in the biology of anisakid nematodes (2020) Genes, 11 (7), art. no. 801, pp. 1-18..DOI: 10.3390/genes11070801 (IF 3.33) Cited 7 times
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4. Šnábel, V., Antolová, D., **Cavallero, S.**, D'Amelio, S. On the geographic genetic variants of the cestode *Echinococcus multilocularis* with reference to the original descriptions from Bowles et al. (1992) and Bowles and McManus (1993), and their use (2020) Parasitology International, 75, art. no. 102039, . DOI: 10.1016/j.parint.2019.102039 (IF 2.02) Cited 3 times.
5. Berrilli, F., Di Cave, D., **Cavallero, S.**, D'Amelio, S. Interactions between parasites and microbial communities in the human gut. (2012) Frontiers in cellular and infection microbiology, 2, p. 141. DOI: 10.3389/fcimb.2012.00141 (IF 2.60) Cited 76 times.

IXC book chapters

1. D'Amelio S, **Cavallero S** (2020). Geohelminths. pp.1-10. In Encyclopedia of Infection and Immunity - ISBN:9780128012383 DOI:10.1016/B978-0-12-818731-9.00025-2.
2. **Cavallero S**, D'Amelio S (2018) *Anisakis*: from molecular identification to “omics” studies (chapter 29) in “Molecular food microbiology, Boca Raton, Florida: CRC Press Taylor e Francis Group.
3. D'Amelio S, Snabel V, **Cavallero S** (2018) *Ascaris* (chapter 78) in Handbook of Foodborne Diseases pp 843-850 (Boca Raton, Florida: CRC Press Taylor e Francis Group, ISBN 9781138036307 - CAT# K31813).

4. D'Amelio S, **Cavallero S**, Busi M, Ingrosso S, Giuffra E, Farjallah S, Costa G. (2012) *Anisakis* (Chapter 45). In: Molecular detection of human parasitic pathogens. (eds: Dongyou Liu, RCPA Biosecurity QAP, New South Wales, Australia).

IXD editorials and letters

1. **Cavallero, S.**, Lombardo, F., D'Amelio, S. Novel omics studies on anisakid nematodes(2021) *Genes*, 12 (8), art. no. 1250, . DOI: 10.3390/genes12081250 **IF 3.33**
2. **Cavallero, S.**, Gabrielli, S., Gazzonis, A.L., Pombi, M., Šnábel, V. Editorial: Zoonotic Parasitic Diseases in a Changing World (2021) *Frontiers in Veterinary Science*, 8, art. no. 715112, . DOI: 10.3389/fvets.2021.715112 **IF 3.41**
3. **Cavallero, S.** Letter to the editor - occurrence of zoonotic species *Sarcocystis* in hamburger samples from Iran. (2014) *Journal of Food Quality and Hazards Control*, 1 (2), p. 66. DOCUMENT TYPE: Letter **IF 0.46**

Considering all publications of the candidate (research articles, review, book chapter and editorials), the position among authors is:

FIRST: 23

LAST: 4

CO-AUTHOR: 28

IXD Conference abstracts (oral communications presented by the candidate as speaker are marked with *)

1. **Invited lecture: Cavallero S***, Pizzarelli A, Bellini I, D'Amelio S, Arcà B. (2021) A miRNA catalogue from third-stage larvae and exosomes of *Anisakis pegreffii*. (2021) 13th European Multicolloquium of Parasitology European Federation of Parasitologists (Belgrade, Serbia October 12-16).
2. Rondón S, **Cavallero S**, Link A, González C, D'Amelio S. Molecular characterization and prevalence of intestinal parasites infecting non-human primates in Colombia. (2021) 13th European Multicolloquium of Parasitology European Federation of Parasitologists (Belgrade, Serbia October 12-16).
3. Rondón S, **Cavallero S**, Link A, De Meo M, González C, Pombi M & D'Amelio S. (2021) Molecular identification of bot flies (*Cuterebra baeri*) infesting grey-legged night monkeys (*Aotus griseimembra*) and howler monkeys (*Alouatta seniculus*) in Colombia. 69th Annual WDA International Conference- 14th Biennial EWDA Wildlife Disease Association (August 30th - September 3rd).
4. Rondón S, **Cavallero S**, Link A, González C & D'Amelio S. (2021) Molecular characterization and prevalence of protozoan and metazoan parasites infecting non-human primates in natural and captive conditions. PhD Day - XII Seminar. Happiness is a simple system. Infectious Diseases, Microbiology and Public Health Sapienza Università di Roma - Istituto superiore di Sanità July 15th-16th.
5. Rondón S, **Cavallero S**, Link A, González C & D'Amelio S. (2021) Prevalence of intestinal parasites infecting free-ranging non-human primates in Colombia. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
6. Pizzarelli A, **Cavallero S**, Bellini I, D'Amelio S. (2021) Gene expression profiles and temperature in *Anisakis simplex* ss, *Anisakis pegreffii* and *Hysterothylacium aduncum*. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
7. Romano G, Pepe P, **Cavallero S**, Cociancic P, Di Libero L, Grande G, Cringoli G D'Amelio S, Rinaldi L. (2021) Small bowel volvulus by *Ascaris suum* in a 75-year-old man: a case report. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
8. D'Amelio S, Pizzarelli A, Bellini I, **Cavallero S**. (2021) Novel omics technologies in the study of anisakid nematodes. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
9. Bellini, Scribano D, Ambrosi C, Sarshar M, Palamara AT, D'Amelio S, **Cavallero S**. (2021) Inflammatory mechanisms in Caco-2 cells stimulated with *Anisakis*-derived messengers of pathogenicity. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
10. **Cavallero S***, Pizzarelli A, Bellini I, D'Amelio S, Arcà B. (2021) Small-RNA analysis from third-stage larvae and exosomes provides the first miRNAs catalogue from anisakid nematodes. XXXI National Congress SolPa (Società Italiana di Parassitologia) June 16th-19th.
11. Bellini, Scribano D, Ambrosi C, Sarshar M, Palamara AT, D'Amelio S, **Cavallero S**. (2020) *Anisakis simplex* sl and their interaction with human caco-2 cells. XI Seminar - PhD Day. COVID-19: Facing a multi(face)phase pandemic. Istituto Superiore di Sanità (September, October 2020).
12. Rondón S, **Cavallero S**, Link A, González C, D'Amelio S. (2020). Molecular characterization and prevalence of protozoan and metazoan parasites infecting non-human primates in natural and captive conditions. XI

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16. **Cavallero S**, Martini A, Migliara G, De Vito C, D'Amelio S. 2018. Anisakiasis in Italy. Analysis of hospital discharge records in the decade 2005-2015. XXX SolPA meeting, Milano 26-29 giugno. p. 69.
17. **Cavallero S***, Lombardo F, Salvemini M, Cantacessi C, D'Amelio S. 2018. Transcriptomic analyses of non-pathogenic marine ascaridoid *Hysterothylacium aduncum* and pathogenic *Anisakis simplex* sl larvae. XXX SolPA meeting, Milano 26-29 giugno. p.94
18. Montalbano Di Filippo, **Cavallero S**, Meoli R, Eleni C, De Liberato C, Berrilli F. 2018. Molecular identification of *Mesocostoides* sp. metacestodes in a captive gold-handed tamarin (*Saguinus midas*). XXX SolPA meeting, Milano 26-29 giugno. p.95
19. **Cavallero S**, Montalbano Di Filippo M, Berrilli F, De Liberato C, Friedrich KG, D'Amelio S. 2018. *Trichuris* spp. infecting animals of the Bioparco Zoological garden of Rome. XXX SolPA meeting, Milano 26-29 giugno. p.247
20. Costa A, **Cavallero S**, D'Amelio S. 2018. Study of the prevalence of *Anisakis* hypersensitivity in professionally exposed populations. IX Seminar PhD Day: Filling the science communication gap. Istituto Superiore di Sanità, Roma, 17 maggio 2018. Pag 29 ISSN: 0393-5620/2384-857X)
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22. **Cavallero S***, Pirovini L, Nicodemo E, Starita A, Deangeli L, Dalla Bona M, Ferrari N, D'Amelio S (2017) Alpine chamois population with impaired health status living in isolated habitat: evidences from pathology and molecular genetics (IV Congresso Nazionale di Ecopatologia della Fauna (SIEF), Domodossola 11-13 Ottobre).
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La dichiarante

