

Curriculum

Curriculum Vitae Serena Cavallero ESPERIENZE LAVORATIVE Posizione attuale:
Ricercatrice di tipo A (tempo definito) SSD VET/06 presso il Dipartimento di sanità pubblica e malattie infettive, Sapienza Università di Roma (15 dicembre – 14 dicembre 2023) Abilitazione scientifica nazionale per Professore di II fascia SSD VET/06 conseguita a luglio 2020 e valida fino al 2029 . Attività di consulente esperto • Progetti di ricerca nazionali Repubblica Ceca “Czech Science Foundation” (2020) • Progetti MSCA (European Projects 2019) • Progetti di ricerca nazionali Polonia (2019) • ANGQ (Associazione Nazionale Garanzia della Qualità) - Corso di Filogenesi molecolare e genetica delle popolazioni presso UNIRELAB srl (MIPAAFT) (2018) • Generon srl Consulente per Validazione di kit diagnostici basati su tecnologia PCR Real Time da applicare su alimenti per la ricerca di acidi nucleici specificamente riferibili a nematodi anisakidi (2016) • Progetti europei FP7 (2015) Attività di ricerca Post-doc: • Comparative transcriptomic analyses on Anisakid pathogenic species (2017-2018 Dipartimento di sanità pubblica e malattie infettive, Sapienza Università di Roma) • One-Health approach: genetic variability in chamois subspecies in relation to epidemics (2013-2016 Dipartimento di sanità pubblica e malattie infettive, Sapienza Università di Roma) • Microbiological safety in thermal bath facilities (2012 – Dipartimento di scienze cliniche e medicina traslazionale, Università di Roma Tor Vergata) BORSE DI STUDIO E PERFEZIONAMENTO • Comparative analyses in transcriptomes from zoonotic parasitic nematodes (Anisakis and Hysterothylacium) - EMBO short term fellowship (6876 application number ASTF 632-2016) (Dipartimento di medicina veterinaria, Università di Cambridge Gennaio-Marzo 2017) • Characterization and risk mapping of zoonotic agents of helminthiasis in the Mediterranean Basin (FILAS – Progetto Regione Lazio agosto 2016-gennaio 2017) • Molecular, biochemical and immunological characterization of helminths of public health concern – Sapienza fellows presso l’Accademia Slovacca delle Scienze a Kosice (Dicembre 2012 – Maggio 2013) • Evolutionary processes in anisakid nematodes: from gene sequences to the hypotheses of speciation mechanisms, host-parasite co-phylogeny and morphological and life history evolution” – Ministero degli affari esteri, programmi di cooperazione tecnica e scientifica Italia-USA presso la University of California, Davis - Department of Nematology (Marzo 2010) Abilitazione alla professione di Biologo (Sapienza Università di Roma 2011) Membro delle seguenti società scientifiche: International Society of Extracellular Vesicles (ISEV); European society of Clinical Microbiology and Infectious Diseases (ESCMID); Società Italiana di Parassitologia (SOIPA); Società Scientifica Veterinaria per l’Apicoltura (SVETAP). Best young researcher SOIPA nel 2018, 2016, 2012. Best oral talk in Human Parasitology at SOIPA congress in 2021. EDUCAZIONE E FORMAZIONE Dottorato in Sanità Pubblica e Microbiologia conseguito a Marzo 2012 (curriculum Parassitologia) Titolo della tesi – “Molecular systematics of Anisakid nematodes (Anisakis spp., Pseudoterranova spp., Contraecum spp.)” Laurea specialistica in Biologia cellulare applicata conseguita a Ottobre 2008 Titolo della tesi – “Specie gemelli nel genere Anisakis (Nematoda: Anisakidae): ipotesi di una zona ibrida intorno allo Stretto di Gibilterra” Laurea Triennale in Scienze Biologiche conseguita a Febbraio 2007 Titolo della tesi – “Caratterizzazione genetica di Ascaris spp. da diverse regioni geografiche” Corsi di formazione frequentati Emergenza sanitaria da nuovo coronavirus SARS CoV-2: preparazione e contrasto (Corso FAD ISS Marzo 2020) Basic Extracellular Vesicles (Coursera – ISEV 2019) Rfam and RNAcentral bioinformatic platforms course. European Institute of Bioinformatics EBI (Hinxton Cambridge UK 2019) Extracellular vesicles in Helminths (Hydra, Grecia 2019) Echinococcosis: epidemiological, clinical, diagnostic and therapeutical aspects (Istituto Nazionale per le Malattie Infettive “Lazzaro Spallanzani” I.R.C.C.S. 2017) Chikungunya: data, actions and criticisms (Sapienza 2017) National Reference Laboratories meeting for

food-borne parasites (Ministero della salute 2017) Comparative methods in evolutionary biology (Stazione Zoologica Anton Dohrn, 2016) Summer school "Fish Parasitology" (ECIP European centre of IchtyoParasitology e Masarik University, Faculty of Science- Brno, Czech Republic 2016) RNA-SEQ Data analysis (Università di Napoli 2016) HACCP course (Bio Invent snc Rome 2014) Biosafety in laboratories (VWR International PBI S.r.l. Rome 2014) Preventive and quality controls in Biobanks (PB - International Rome 2011) Cystic Echinococcosis: Burden of Disease in the EU and Clinical Management" (ESCMID and WHO Echinococcus group University of Pavia 2011) Computational Molecular Evolution (EMBO, Grecia 2010) Comparative Genomics (Ecole Normal Superior, Lyon 2009) ATTIVITA' EDITORIALE E DI PEER-REVIEWING Guest Editor per lo Special Issue dal titolo "Novel Omics Studies on Anisakid Nematodes" per la rivista Genes Guest Editor per la Collection dal titolo "Zoonotic parasitic diseases in a changing world" for Frontiers in Veterinary Science (Parasitology Section) Guest Editor per Frontiers in Veterinary Science Reviewer per: Plos Neglected Tropical Diseases, Plos One, Parasites and Vectors, Foodborne Pathogens and Disease, BMC Genomics, Veterinary Parasitology, Infection Genetic and Evolution, Helminthologia, Parasitology Research, Mediterranean Marine Science, Parasitology International, African Journal of Biotechnology. PROGETTI FINANZIATI A SC • ESCMID Research Grant 2021 "Intestinal Organoids as a new model to unravel the role of exosomes in host-nematode interactions" • Sapienza ateneo 2019 "Deciphering host-parasite interactions using an in-vitro system with Caco-2 cells and Anisakis exosomal microRNA" • Progetto di divulgazione scientifica - "Eureka"-Roma 2018" titolo: "Roma ti apiamo" • Sapienza avvio alla ricerca 2016 "Cryptic species in whipworms from humans and non-human primates: zoonotic risk in wildfile and captivity" • ESCMID Research Grant 2015 "Comparative analyses on transcriptomes of anisakid pathogenic species" • Sapienza avvio alla ricerca 2015 "Molecular characterization of Trichuris spp. from captive and domestic rodents" • SOIPA avvio alla ricerca 2015 "Molecular characterization of Trichuris spp. from captive and domestic rodents, zoonotic implication" • Sapienza avvio alla ricerca 2014 "Genotyping Ascaris spp. (Nematoda: Ascaridida) with High Resolution Melting approach" PROGETTI COLLABORATIVI • The genome of the zoonotic parasite Anisakis pegreffii as a framework for deepen the knowledge on host-parasite interaction (Sapienza 2020 Prof D'Amelio S) • The host-parasite interface: characterization of non-coding RNAs in exosomes from anisakid nematodes of human health concern (Sapienza 2018 Prof D'Amelio S, Prof Lombardo F, Dr. Arcà B., Dr. Cavallero S) • Echinococcosi cistica...al lavoro: azioni in-formative per la prevezione e gestione del rischio zoonosico nella regione Sardegna - Progetto di azione prevezionale, Dir. Regionale INAIL (2018) • Identification, genetic diversity and phylogeny of intestinal nematodes from Galápagos land iguanas Conolophus subcristatus and Conolophus marthae. SOIPA 2018 (Università di Roma Tor Vergata Dr. Berrilli F, Dr. Montalbano Di Filippo M, Dr. Cavallero S). • Causative relation among MHC heterozygosity, fertility and parasites in deer populations of Parco Nazionale dello Stelvio – Dr. Corlatti L, Prof D'Amelio S, Dr Cavallero S. • Non-invasive sampling methods in wild and captive primates – Units of Primatology CNR (Dr Visalberghi, Dr Truppa). • Interactions between Escherichia coli and nematodes in free living and parasitic models. Sapienza 2015 (Prof Longhi C, Prof D'Amelio, Dr Cavallero S). • Genomics and host-pathogen interaction: a study model in the One-Health perspective– PRIN 2011-2014 Prof D'Amelio • Molecular epidemiology of ascariasis: A perspective on the transmission dynamics of Ascaris in people and pigs in endemic and non-endemic countries Sapienza 2015 (Prof D'Amelio). • 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 2010-2013 Istituto Zooprofilattico sperimentale del Lazio e della Toscana • Surveillance of priority and emerging diseases in wildlife in the Alpine Central and Eastern

Europe – Progetto Ricerca corrente 2009 dell'Istituto Zooprofilattico Sperimentale delle Venezie • Molecular, biochemical and immunological characterization of helminths of public health concern. Slovak Academy of Science (Dr. Snabel V). • Host-pathogen interaction in pyrenean chamois populations exposed to pestivirus - (Universidad Autonoma de Barcelona, Prof. Ignasi Lavín, Prof López-Olvera) COMPETENZE E CARATTERISTICHE PERSONALI Lingua Italiano Altre lingue Inglese Reading Buono Writing Buono Speaking Buono Competenze Specifiche Metodi di biologia molecolare (DNA, RNA, PCR, RFLP, Real Time PCR, HRM, CDNA, miRNAs) analisi di sequenze nucleotidiche, filogenesi, genetica di popolazione, morfologia (Chromas, Trace, MEGA; DnaSP, Arlequin, Beast, MrBayes, PamL, FigTree, Dendroscope, TCS, Network, PopArt). NGS approaches: mapping assembly e annotation RNAseq, DEGs, miRNAs. Microsoft Office, Adobe Photoshop cs3 e Linux (Ubuntu system). Altri interessi e attività Nel 2015 fonda l'associazione di promozione sociale BUONO, con lo scopo di divulgare la scienza e conservare la natura mediante l'esempio virtuoso del mondo delle api (www.ilmielebuono.it). Project manager e research activity manager. Nel 2018 si abilita e si iscrive all'albo nazionale come esparto in analisi sensoriale dei mieli (CRA-API Bologna). Capacità relazionali Buona esperienza nel lavoro di gruppo, nelle relazioni multiculturali, buone capacità di leadership e time-planning Capacità organizzative Buone capacità di coordinamento, pianificazione del lavoro e organizzazione del tempo, sia nel lavoro singolo sia di gruppo. Buone capacità di problem-solving. Patente di guida B Pubblicazioni in riviste peer-reviewed (with IF) 1. Šnábel V, Kuzmina TA, Antipov AA, Yemets OM, Cavallero S, Miterpáková M, D'Amelio S, Antolová D, Vasilková Z, Salamatin R. (2021) Molecular Study of *Echinococcus granulosus* Cestodes in Ukraine and the First Genetic Identification of *Echinococcus granulosus* Sensu Stricto (G1 Genotype) in the Country. *Acta Parasitol.* 2021 19. 2. Cavallero S, Lombardo F, D'Amelio S. Novel Omics Studies on Anisakid Nematodes. *Genes (Basel)*. (2021) 16;12(8):1250. 3. Cavallero S, D'Amelio S. (2021) Anisakis: From Molecular Identification to Omic Studies. pp.415-424. In *Molecular Food Microbiology* - ISBN:9780815359500. (In FOOD MICROBIOLOGY series - book chapter) 4. Peradotto M, Rolle E, Zaccaria T, Cavallero S, Bondi A, Bottino P, De Angelis C, D'Amelio S, Saracco GM, Cavallo R. (2021) An unpleasant souvenir: Endoscopic finding of *Trichuris trichiura* (Nematoda: Trichuridae). *Parasitol Int.* 80:102220. 5. 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. 6. Cavallero S, Montalbano Di Filippo M, Rondón S, Liberato C, D'Amelio S, Friedrich KG, Berrilli F. (2020) Nuclear and Mitochondrial Data on *Trichuris* from *Macaca fuscata* Support Evidence of Host Specificity. *Life (Basel)*. 31;11(1):18. 7. Martini A, Pietrafesa E, Rondinone B, Iavicoli S, D'Amelio S, Cavallero S, Bonafede M. (2020). Toxoplasmosis and knowledge: What do the Italian women know about? *Epidemiology and Infection*, 148, E256. 8. D'Amelio S, Lombardo F, Pizzarelli A, Bellini I, Cavallero S. Advances in Omic Studies Drive Discoveries in the Biology of Anisakid Nematodes. *Genes (Basel)*. 2020;11(7):E801. doi:10.3390/genes11070801 9. Cavallero S, Lombardo F, Salvemini M, Pizzarelli A, Cantacessi C, D'Amelio S. Comparative Transcriptomics Reveals Clues for Differences in Pathogenicity between *Hysterothylacium aduncum*, *Anisakis simplex* sensu stricto and *Anisakis pegreffii*. *Genes (Basel)*. 2020;11(3):321. 10. Turchetto S, Obber F, Rossi L, D'Amelio S, Cavallero S, Poli A, Parisi F, Lanfranchi P, Ferrari N, Dellamaria D, Citterio CV. Sarcoptic Mange in Wild Caprinae of the Alps: Could Pathology Help in Filling the Gaps in Knowledge? (2020) *Front. Vet. Sci.* 7:193. 11. Panayotova-Pencheva M, Šnábel V, Dakova V, Čabanová 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* 57, 3: 211 – 218. 12. 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) *Parasitol Int.* 75:102039.

13. Montalbano Di Filippo M, Berrilli F, De Liberato C, Di Giovanni V, D'Amelio S, Friedrich KG, Cavallero S. (2020) Molecular characterization of *Trichuris* spp. From captive animals based on mitochondrial markers. *Parasitol Int.* 75:102043.

14. Abtahi M, Eslami G, Cavallero S, Vakili M, Hosseini SS, Ahmadian S, Boozhmehrani MJ, Khamesipour A. (2020) Relationship of *Leishmania* RNA Virus (LRV) and treatment failure in clinical isolates of *Leishmania major*. *BMC Res Notes.* 4;13(1):126.

15. Hammad S. J., Cavallero S, Al-Nasiri FS, D' Amelio S. Comparative study among lactophenol blue, lactophenol solution and proteinase-K lytic solution for rostellar hooks morphometry of *Echinococcus granulosus* protoscolices. *Helminthologia*, 57:1. Doi:<https://doi.org/10.2478/helm-2020-0010>.

16. Jarošová J, Antolová D, Šnábel V, Guimarães N, Štofík J, Urban P, Cavallero S, Miterpáková M. The fox tapeworm, *Echinococcus multilocularis*, in grey wolves and dogs in Slovakia: epidemiology and genetic analysis. *J Helminthol.* 2020;94:e168.

17. Jarošová J, Šnábel V, Cavallero S, Chovancová G, Hurníková Z, Antolová D. The Mouse Bile Duct Tapeworm, *Hymenolepis microstoma* in Free-living Small Mammals in Slovakia: Occurrence and Genetic Analysis. (2020) *Helminthologia.* 57(2):120-128.

18. Jarošová J, Antolová D, Šnábel V, Miklisová D, Cavallero S (2020) The dwarf tapeworm *Hymenolepis nana* in pet rodents in Slovakia – epidemiological survey and genetic analysis. *Parasitol Res.*;119(2):519-527.

19. Cavallero S, El Sherif RA, Pizzarelli A, El Fitri AA, El Showdhi M, Benmosa F, D'Amelio S. (2019) Occurrence of *Anisakis* and *Hysterothylacium* nematodes in Atlantic chub mackerels from Libyan coasts. *Helminthologia*, 56, 4: 347 – 352

20. Cavallero S, Nejsum P, Cutillas C, Callejón R, Doležalová J, Modrý D, D'Amelio S. (2019) Insights into the molecular systematics of *Trichuris* infecting captive primates based on mitochondrial DNA analysis. *Vet Parasitol.* 272:23-30.

21. Cavallero S, Martini A, Migliara G, De Vito C, Iavicoli S, D'Amelio S. (2018) *Anisakiasis* in Italy: Analysis of hospital discharge records in the years 2005-2015. *PLoS One.* 11; 13 (12): e0208772.

22. Massolo A, Valli D, Wassermann M, Cavallero S, D'Amelio S, Meriggi A, Torretta E, Serafini M, Casulli A, Zambon L, Boni CB, Ori M, Romig T, Macchioni F. (2018) Unexpected *Echinococcus multilocularis* infections in shepherd dogs and wolves in south-western Italian Alps: A new endemic area? *Int J Parasitol Parasites Wildl.* 13;7(3):309-316.

23. Montalbano Di Filippo M, Meoli R, Cavallero S, Eleni C, De Liberato C, Berrilli F. (2018) Molecular identification of *Mesocestoides* sp. metacestodes in a captive gold-handed tamarin (*Saguinus midas*). *Infect Genet Evol* Aug 12 ;65:399-405.

24. 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.

25. D'Amelio S, Šnábel 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).

26. Cavallero S, Lombardo F, Su X, Salvemini M, Cantacessi C, D'Amelio S (2018) Tissue-specific transcriptomes of *Anisakis simplex* (sensu stricto) and *Anisakis pegreffii* reveal potential molecular mechanisms involved in pathogenicity. *Parasit Vectors*, 11, 31.

27. Hammad SJ, Cavallero S, Milardi GL, Gabrielli S, D'Amelio S, Al-Nasiri FS (2018) Molecular genotyping of *Echinococcus granulosus* in the North of Iraq. *Vet Parasitol* 15;249:82-87

28. Šnábel V, Calma C, Georgescu SO, Cavallero S, D'Amelio S, Vadilkova Z, Ito A. (2017) Genetic survey of alveolar and cystic echinococcosis in Romania: first molecular evidence of *Echinococcus multilocularis* in humans in the Country. *Helminthologia*, 54, 3: 189-198.

29. Cavallero S, Bruno A, Arletti E, Caffara M, Fioravanti ML, Costa A, Cammilleri G, Graci S, Ferrantelli V, D'Amelio S. (2017). Validation of a commercial kit aimed to the detection of pathogenic anisakid nematodes in fish products. *Int J Food Microbiol* (257), 75–79.

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