




# Selene Rubiola


DVM, PhD candidate

## PROFILE

 Female | 29/03/1991 | Italian

 Turin, Italy

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## EXPERIENCE

01-2022 > actually

### Research grant in Veterinary Medicine

*University of Turin, Department of Veterinary Science.*

Metagenomic analysis of the microbiome and the resistome of different dairy farms in Piedmont (Italy)

04-2018 > 04-2019

### Research grant in Veterinary Medicine

*University of Turin, Department of Veterinary Science.*

Sarcosporidiosis and eosinophilic myositis: identification of risky farming practices and of the sources of environmental contamination through molecular methods.

Survival of *Listeria monocytogenes* in food residues on packaging materials for dairy products.

03-2017 > 09-2017

### Research grant in Veterinary Medicine

*University of Turin, Department of Veterinary Science.*

Molecular identification of *Toxoplasma gondii* in milk and dairy products. Molecular differentiation of cattle *Sarcocystis* spp. by multiplex PCR and identification of *Sarcocystis hominis* in human stool samples.

01-2017 > 02-2018

### Clinical Veterinarian in a Wildlife Rescue Center

*CRUMA-LIPU Wildlife Rescue Center*

Extensive work experience in management and veterinary clinical medicine in wild birds and wild mammals in C.R.U.M.A., a Wildlife Rescue Center in Livorno, Italy.

## EDUCATION

10-2018 > 12-2021

### PhD in Veterinary Sciences for Animal Health and Food Safety

*University of Turin, Department of Veterinary Science.*

Antimicrobial Resistance: investigation of the presence of antimicrobial resistance genes in cow milk using a Whole Metagenome Sequencing approach.

09-2011 > 04-2016

### Master's Degree with Honors in Veterinary Medicine

*University of Turin, Department of Veterinary Science.*

Degree thesis: Prevalence and distribution of *Alaria alata*, a foodborne trematode, in Red Foxes in North West Italy.

Felice Panebianco, **Selene Rubiola**, Pierluigi Aldo Di Ciccio, 2022. The Use of Ozone as an Eco-Friendly Strategy against Microbial Biofilm in Dairy Manufacturing Plants: A Review. *Microorganisms* 10(1):162. <https://doi.org/10.3390/microorganisms10010162>

**Selene Rubiola**, Barbara Moroni, Luca Carisio, Luca Rossi, Francesco Chiesa, Giuseppe Martano, Elisa Cavallo, Luisa Rambozzi, 2021. Risk Factors for Bovine Cysticercosis in North-West Italy: A Multi-Year Case-Control Study. *Animals* 11, 3049. <https://doi.org/10.3390/ani11113049>

Felice Panebianco, **Selene Rubiola**, Francesco Chiesa, Tiziana Civera, Pierluigi Aldo Di Ciccio, 2021. Effect of Gaseous Ozone on *Listeria monocytogenes* Planktonic Cells and Biofilm: An In Vitro Study. *Foods*. 10(7):1484. <https://doi.org/10.3390/foods10071484>

**Selene Rubiola**, Tiziana Civera, Felice Panebianco, Davide Vercellino, Francesco Chiesa, 2021. Molecular detection of cattle *Sarcocystis* spp. in North-West Italy highlights their association with bovine eosinophilic myositis. *Parasites Vectors* 14, 223. <https://doi.org/10.1186/s13071-021-04722-5>

Matteo Cuccato, **Selene Rubiola**, Diana Giannuzzi, Elena Grego, Paola Pregel, Sara Divari, Francesca Tiziana Cannizzo, 2021. 16S rRNA Sequencing Analysis of the Gut Microbiota in Broiler Chickens Prophylactically Administered with Antimicrobial Agents. *Antibiotics* 10, no. 2: 146. <https://doi.org/10.3390/antibiotics10020146>

**Selene Rubiola**, Francesco Chiesa, Alessandra Dalmasso, Pierluigi Di Ciccio, Tiziana Civera, 2020. "Detection of Antimicrobial Resistance Genes in the Milk Production Environment: Impact of Host DNA and Sequencing Depth". *Front. Microbiol.* 11. <https://doi.org/10.3389/fmicb.2020.01983>

Pierluigi Di Ciccio, **Selene Rubiola**, Maria Ausilia Grassi, Tiziana Civera, Francesco Abbate, Francesco Chiesa, 2020. "Fate of *Listeria monocytogenes* in the presence of resident cheese microbiota on common packaging materials". *Front. Microbiol.* 11. <https://doi.org/10.3389/fmicb.2020.00830>

**Selene Rubiola**, Tiziana Civera, Ezio Ferroglio, Stefania Zanet, Teresa Zaccaria, Silvia Brossa, Raffaella Cipriani, Francesco Chiesa, 2020. "Molecular differentiation of cattle *Sarcocystis* spp. by multiplex PCR targeting 18S and COI genes following identification of *Sarcocystis hominis* in human stool samples". *Food Waterborne Parasitol.* 18, e00074. <https://doi.org/10.1016/j.fawpar.2020.e00074>

**Selene Rubiola**, Francesco Chiesa, Stefania Zanet, Tiziana Civera, "Molecular identification of *Sarcocystis* spp. in cattle: partial sequencing of Cytochrome C Oxidase subunit 1(COI)". *Italian Journal of Food Safety*, 2018 Dec 31; 7(4): 7725. doi: 10.4081/ijfs.2018.7725

Clara Tramuta, Silvia Gallina, Alberto Bellio, Daniela Manila Bianchi, Francesco Chiesa, **Selene Rubiola**, Angelo Romano, Lucia Decastelli, "A Set of Multiplex Polymerase Chain Reactions for Genomic Detection of Nine Edible Insect Species in Foods". *Journal of Insect Science*, (2018) 18(5): 3; 1–6. <https://doi.org/10.1093/jisesa/iey087>

Ezio Ferroglio, Stefania Zanet, Anna Trisciuglio, **Selene Rubiola**, Francesco Chiesa, "Cos'è quest'uovo? Parassiti emergenti nel cane e nel gatto". *SUMMA Animali da compagnia* N° 2 marzo 2016.

Felice Panebianco, **Selene Rubiola**, Francesco Chiesa, Tiziana Civera, Pierluigi Aldo Di Ciccio. "Studio sull'efficacia dell'ozono gassoso per il controllo di biofilm di isolati di *Pseudomonas* spp. da industria lattiero-casearia." XXX convegno nazionale AIVI, 16-17 e 23-24 settembre 2021.

Felice Panebianco, **Selene Rubiola**, Francesco Chiesa, Tiziana Civera, Pierluigi Aldo Di Ciccio. "Effect of gaseous ozone against biofilm of *Listeria monocytogenes* isolates from dairy industries." 74° convegno SISVET, June 23-26 2021.

**Selene Rubiola**, Francesco Chiesa, Davide Vercellino, Tiziana Civera. "The green side of beef: detection of different *Sarcocystis* spp. in carcasses affected by bovine eosinophilic myositis, including a putative new species." 74° convegno SISVET, June 23-26 2021.

**Selene Rubiola**, Francesco Chiesa, Alessandra Dalmaso, Tiziana Civera. "Metagenomic Characterization of the Microbiome and Resistome in the Milk Production Environment". IAFP's European Symposium, April 27-28 2021.

**Selene Rubiola**, Francesco Chiesa, Ezio Ferroglio, Stefania Zanet, Pegoraro De Macedo Marcia Raquel, Tiziana Civera, " *Alaria* spp.: zoonosi nativa o nuova comparsa? ". 1° National Congress "La filiera delle carni di selvaggina selvatica", 2019, Lodi, Italy.

**Selene Rubiola**, Francesco Chiesa, Stefania Zanet, Tiziana Civera, "Sequenziamento parziale del gene Citocromo C Ossidasi subunità 1 (COI) per l'identificazione molecolare di *Sarcocystis* spp. nel bovino". Winner of the best oral presentation awards for presenting author under 35, A.I.V.I. 2018, Milano, Italy.

**Rubiola S**, Vercellino D, Tripolini D, Sinelli M, Guida A, Castellani I and Chiesa F. "*Sarcocystis* Species Detection By Multiplex-PCR in Cattle Affected By Eosinophilic Myositis". Poster. IAFP's European Symposium 27-28 aprile 2021.

Di Ciccio P, Chiesa F, **Rubiola S**, Civera T, "Genetic Determinants Associated With Biofilm Formation Of *Listeria Monocytogenes* From Food And Food Processing Environment", 33rd EFFoST International Conference, 12-14 november 2019, Rotterdam (The Netherlands)

Di Ciccio P., **Rubiola S.**, Grassi M.A., Civera T., Chiesa F., "Survival of *Listeria monocytogenes* in food residues on packaging materials for dairy production". IAFP 2019, Nantes, France.

Chiesa F, Di Ciccio P, **Rubiola S**, Civera T, Piumatti N, Grassi A., "Filiere produttiva di insetti ad uso Feed & Food: analisi e definizione del profilo di rischio", XXIX Convegno Nazionale AIVI 11-13 settembre 2019, Bari, Italy.

Drouet M, Fouilloux M N, **Rubiola S**, Chiesa F, "Sources of bovine Sarcocystosis at farm: An innovative approach", 5th International Meeting on Apicomplexan Parasites in Farm Animals, 2-4 ottobre 2019, Berlino (Germany).

Chiesa F, Zanet S, **Rubiola S**, Battisti E, Ranucci D, Veronesi F, Ferroglio E, "Molecular detection of *Toxoplasma gondii*: Is one marker enough?", 5th International Meeting on Apicomplexan Parasites in Farm Animals, 2-4 ottobre 2019, Berlino (Germany)

Sohrabi H, **Rubiola S**, Dalmaso A, Chiesa F, "Evaluation of the presence of *Sarcocystis* spp. in bovine meat and meat products at retail level". SISVET 2018, Torino, Italy.

Tramuta C, Romano A, Chiesa F, Bianchi M, **Rubiola S**, Martucci F, Gallina S, Decastelli L. "Molecular identification of antimicrobial resistance (AMR) genes in cow raw milk." Ninth International Conference on Antimicrobial Agents In Veterinary Medicine (AAVM) – Rome, Italy, October 16-19, 2018.

**Rubiola S**, Rossi M, Battisti E, Zanet S, Chiesa F, "First report of *Sarcocystis bovifelis* in Italy". IAFP's European Symposium on Food Safety, 25-27 aprile 2018, Stoccolma, Svezia.

Chiesa F, **Rubiola S**, Zanet S, Civera T, Ferroglio E, "Presence of *Alaria alata* in Red Foxes (*Vulpes vulpes*) in North West Italy". IAFP 2017, Brussels, Belgium.

## ADDITIONAL INFORMATION

### Trainings

EMBO practical course "Microbial Metagenomics: a 360° approach", Heidelberg (Germany), June 2019.

### Awards

Young Presenting Author "Molecular identification of Sarcocystis spp. in cattle: partial sequencing of Cytochrome C Oxidase subunit 1 (COI)", A.I.V.I. 2018, Milan (Italy).

### International experiences

UCD-Centre for Food Safety (CFS), University College Dublin, Belfield, Dublin (IE).  
Three months working on metagenomics of foodborne microorganisms, focusing on bioinformatics analysis of metagenomic data.

## SKILLS

### Technical and clinical skills

Traditional Microbiology: Culture, isolation, biochemical testing, antimicrobial susceptibility.

Molecular Biology: DNA extraction and purification, PCR, LAMP, electrophoresis, Sanger sequencing, preparation of Illumina libraries and NGS.

Metagenomic data analyses.

Clinical skills on wild and exotic animals.

### Mother tongue

Italian

### Other languages

English: B1