



PERSONAL INFORMATION

Curriculum Vitae

Valeria Toppi

Replace with First name(s) Surname(s)

1994

WORK EXPERIENCE

01/06/2021 – 31/10/2021

Occasional self-employment contract for data collection and analysis activities, in support of the project entitled: "Study of vesicles in *Salmonella* Infantis and their role in the mechanisms of antibiotic resistance" for which Prof. Patrizia Casagrande Proietti is the scientific referee.

University of Perugia, Piazza dell'Università 1, 06123, Perugia (PG), Italy

Sowing and isolation in pure culture. Preparation of growth media. Isolation of bacterial outer membrane vesicles (OMVs) from *Salmonella enterica* serovar Infantis strains by filtration/ultrafiltration and ultracentrifugation methods. Preparation of biochemical tests for enzyme activity. Protein quantification assays. Protein electrophoresis and Western blotting. Data analysis.

EDUCATION AND TRAINING

01/01/2022 – ongoing

PhD student in "Sanità e Scienze Sperimentali Veterinarie"

University of Perugia, Department of Veterinary Medicine, Via S. Costanzo 4, 06126, Perugia, IT

Project: Study of Hemp Derivatives as Innovative Unconventional Antimicrobials in Veterinary Medicine

2022 – ongoing

LECTURER FOR COURSES IN VETERINARY MICROBIOLOGY AND IMMUNOLOGY FOR THE DEGREE COURSE IN VETERINARY MEDICINE AND GENERAL MICROBIOLOGY FOR THE DEGREE COURSE IN ANIMAL PRODUCTION

01/08/2023 – 29/02/2024

Internship at the Department of Veterinary and Animal Sciences – Section for Veterinary Clinical Microbiology – One Health Antimicrobial Resistance (OHAR) group – University of Copenhagen, Denmark (DK)

November 2021

Authorization to practice as a biologist

University of Tuscia (Viterbo)

2019/2020

Master's Degree in Medical, Veterinary or Forensic Biotechnological Sciences (LM-9)

EQF7

University of Perugia (Perugia) VOTE: 110/110 cum laude

2013/2014

Bachelor Degree in Biological Sciences (L-13)

EQF6

University of Tuscia (Viterbo) VOTE: 104/110

PERSONAL SKILLS

Mother tongue(s) Italiano

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

Communication skills • Excellent communication skills obtained and improved during participation as a speaker at national and/or international scientific congresses

Organisational / managerial skills • Good management skills, excellent teamwork management.

Driving licence B

ADDITIONAL INFORMATION

- Presentation
- 1) "Minimum of inhibitory concentrations (MIC) of selected antimicrobials against commensal *E. coli* from conventional, organic, and antibiotic-free broiler chickens in farms and in slaughterhouses". Musa L., Casagrande Proietti P., Marenzoni ML., Shtylla Kika T., Stefanetti V., Ranucci D., **Toppi V.**, Franciosini MP. 3rd International Conference of the European College of Veterinary Microbiology. 16-17 october 2021, Webinar.
 - 2) "Phenotypic and genotypic study on susceptibility to colistin in *E. coli* and *Salmonella* *Infantis* isolated in meat chickens". Musa L., Casagrande Proietti P., Stefanetti V., **Toppi V.**, Marenzoni MP., Shtylla Kika T., Blasi F., Magistrali CF., Branciarri R., Franciosini MP., VI Simposio Orale SIPA, 19 November 2021, Bologna.
 - 3) "Role of Outer Membrane Vesicles (OMVs) from *S. Infantis* in antimicrobial resistance: evaluation of β -lactamase activity". **Toppi V.**, Scattini G., Musa L., Pascucci L., Chiaradia E., Tognoloni A., Franciosini MP., Casagrande Proietti P., 75° Convegno SISVET, 15-18 june 2022, Lodi.
 - 4) "Ruolo dei selvatici nel circuito di antibiotico resistenza: indagini preliminari". Musa L., Casagrande Proietti P., Stefanetti V., **Toppi V.**, Gobbi M., Aisa F., Costantino I., Brescia M., Franciosini MP. 75° Congresso Convegno SISVET, 15-18 june 2022, Lodi.
 - 5) "Study of Antimicrobial Activity of Hemp extract seed oil against *Staphylococcus pseudintermedius* strains and *Pseudomonas aeruginosa* strains isolated from pyoderma and external otitis in dogs" **Toppi V.**, Rampacci E., della Rocca G., Di Salvo A., De Benedetti M., Casagrande Proietti P., 2nd International Congress on Clinical Trials on Cannabis, 15-16 February 2022, London.
 - 6) "Evaluation of β -lactamase enzyme activity in Outer Membrane Vesicles (OMVs) isolated from Extended Spectrum β -lactamase (ESBL) *Salmonella* *Infantis* strains" **Toppi V.**, Scattini G., Musa L., Stefanetti V., Pascucci L., Chiaradia E., Tognoloni A., Giovagnoli S., Franciosini MP., Branciarri R., Casagrande Proietti P., International Conference on One Health Antimicrobial Resistance, 18-20 April 2023. Copenhagen (Denmark).
 - 7) "Antimicrobial activity of Hemp extract seed oil against *Staphylococcus pseudintermedius* and *Pseudomonas aeruginosa* strains isolated from pyoderma and external otitis in dogs" **Toppi V.**, Rampacci E., Musa L., della Rocca G., Di Salvo A., De Benedetti M., di Giacinto G., Franciosini M.P., Casagrande Proietti P., 76° Convegno SISVET, 21-23 June 2023. Bari (IT) (accepted for oral presentation).
 - 8) "Antimicrobial Activity of Hemp Extract Seed Oil against *Staphylococcus pseudintermedius* and *Pseudomonas aeruginosa* Strains isolated from Pyoderma and External Otitis in Dogs" **Valeria Toppi**, Elisa Rampacci, Laura Musa, Giorgia della Rocca, Alessandra Di Salvo, Marina De Benedetti, Giacomo Di Giacinto, Maria Pia Franciosini, Patrizia Casagrande Proietti SISVET 21-23 giugno 2023 Bari (IT)
 - 9) Methods for OMVs isolation and evaluation of β -lactamase enzyme activity in *Salmonella* *Infantis*" **V. Toppi**, G. Scattini, L. Musa, V. Stefanetti, L. Pascucci, E. Chiaradia, A. Tognoloni, S. Giovagnoli, MP. Franciosini, P. Casagrande Proietti IEEE 2024 International Workshop on Measurements and Applications in Veterinary and Animal Sciences 22-24 April 2024 Torino (IT)



EUROPEAN

Poster presentation

Curriculum Vitae

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- 1) "A preliminary study on Salmonella Infantis: outer membrane vesicles (OMVs) isolation and evaluation of β -lactamase activity". **Toppi V.**, Musa L., Scattini G., Pascucci L., Franciosini MP., Casagrande Proietti P., 3rd International Conference of the European College of Veterinary Microbiology. 16-17 october 2021, Webinar.
- 2) "Salmonella Infantis Outer Membrane Vesicles (OMVs): isolation and evaluation of β -lactamase activity". **Toppi V.**, Musa L., Scattini G., Pascucci L., Franciosini MP., Casagrande Proietti P., 3rd International Conference on Agriculture and Life Sciences. 1-3 November 2021, Tirana, Albania.
- 3) "Colistin susceptibility and genomic characterization of Escherichia coli and Salmonella Infantis strains isolated from meat chickens". Musa L., Casagrande Proietti P., Stefanetti V., **Toppi V.**, Marenzoni ML., Sthylla Kika T., Blasi F., Magistrali MC., Branciarri R., Franciosini MP., 3rd International Conference on Agriculture and Life Sciences. 1-3 November 2021, Tirana, Albania.
- 4) "Salmonella Infantis releases Outer Membrane Vesicles (OMVs) including β -lactamase enzymes during their biogenesis". **Toppi V.**, Scattini G., Musa L., Pascucci L., Chiaradia E., Tognoloni A., Franciosini MP., Casagrande Proietti P. 50 Congresso Nazionale della Società Italiana di Microbiologia. 18-21 September 2022, Napoli.
- 5) "Studio preliminare della suscettibilità antimicrobica di Escherichia coli in 4 aree della provincia di Perugia" Di Giacinto G., Musa L., Ranucci D., Cai D., **Toppi V.**, Spata N., Casagrande Proietti P., III Congresso Nazionale Filiere delle Carni di Selvaggina Selvatica. 10-12 May 2023 Foligno (IT).
- 6) "Hemp extract seed oil antimicrobial activity against Staphylococcus pseudintermedius and Pseudomonas aeruginosa strains isolated from pyoderma and external otitis in dogs", **Toppi V.**, Rampacci E., Musa., della Rocca G., Di Salvo A., De Benedetti M., Franciosini M.P., Casagrande Proietti P. International Conference on One Health Antimicrobial Resistance. 18-20 Aprile 2023, Copenhagen (Denmark).

Membership

2022 – ongoing
Associazione Nazionale Infettivologi Veterinari (ANIV)

Awards

Sisvet Young Researchers' Award 2023

ANNEXES



Publications

- 1) **TOPPI V.**, SCATTINI G., MUSA L., STEFANETTI V., PASCUCCI L., CHIARADIA E., TOGNOLONI A., GIOVAGNOLI S., FRANCIOSINI M.P., BRANCIARI R., CASAGRANDE PROIETTI P., "Evaluation of β -Lactamase Enzyme Activity in Outer Membrane Vesicles (OMVs) Isolated from Extended Spectrum β -Lactamase (ESBL) *Salmonella* Infantis Strains", *Antibiotics*, 2023
- 2) CASAGRANDE PROIETTI P., MUSA L., STEFANETTI V., ORSINI M., **TOPPI V.**, BRANCIARI R., BLASI F., MAGISTRALI CF., CAPOMACCIO S., KIKI TS., FRANCIOSINI MP. "mcr-1-Mediated Colistin Resistance and Genomic Characterization of Antimicrobial Resistance in ESBL-Producing *Salmonella* Infantis Strains from a Broiler Meat Production Chain in Italy"; *Antibiotics*, 2022.
- 3) MUSA L., PROIETTI PC., MARENZONI ML., STEFANETTI V., KIKI TS., BLASI F., MAGISTRALI CF., **TOPPI V.**, RANUCCI D., BRANCIARI R., FRANCIOSINI MP., "Susceptibility of commensal *E. Coli* isolated from conventional, antibiotic-free, and organic meat chickens on farms and at slaughter toward antimicrobials with health public relevance"; *Antibiotics*, 2021.
- 4) MUSA L., STEFANETTI V., CASAGRANDE PROIETTI P., GRILLI G., GOBBI M., **TOPPI V.**, BRUSTENGA L., MAGISTRALI CF., FRANCIOSINI MP., "Antimicrobial susceptibility of Commensal *E. coli* isolated from Wild Birds in Umbria (Central Italy)", *Animals*, 2023
- 5) Siddiqui SA, Erol Z, Rugji J, Taşçı F, Kahraman HA, **Toppi V**, Musa L, Di Giacinto G, Bahmid NA, Mehdizadeh M, Castro-Muñoz R. "An overview of fermentation in the food industry - looking back from a new perspective." *Bioresource Bioprocess*. 2023
- 6) Siddiqui SA, **Toppi V**, Syiffah L. A comparative review on Ayam Cemani chicken - A comparison with the most common chicken species in terms of nutritional values. LCA, price and consumer acceptance. *Trop Anim Health Prod*. 2024

LIST OF EXAMS PASSED DURING THE MASTER'S DEGREE AND THEIR MARKS:

1. IMMUNOLOGIA MOLECOLARE	30/30
2. BASI MOLECOLARI DELLE PATOLOGIE UMANE	30 E LODE
3. GENETICA ED EPIGENETICA	23/30
4. FARMACI BIOTECNOLOGICI E BIOTECNOLOGIE IN EMOSTASI E TROMBOSI	27/30
5. BASI ANATOMO-ISTOLOGICHE DELLE PATOLOGIE UMANE	30/30
6. DIAGNOSTICA MOLECOLARE IN MICROBIOLOGIA	28/30
7. DIAGNOSTICA MOLECOLARE IN NEUROLOGIA	25/30
8. BIOTECNOLOGIE DI ALLEVAMENTO E ANIMALI DA LABORATORIO	30/30
9. DIAGNOSTICA MOLECOLARE DELLE MALATTIE INFETTIVE VETERINARIE	30/30
10. BIOTECNOLOGIE APPLICATE AI PRODOTTI DI ORIGINE ANIMALE	30/30
11. GENETICA FORENSE	30/30
12. BIOTECNOLOGIE DELLA RIPRODUZIONE ANIMALE	30/30

Perugia

19/07/2024