

CURRICULUM VITAE

Personal Information

Name	Vittoria Mattioni Marchetti
Year of Birth	1991
Qualification	Ph.D
Current position	Researcher rtdA
Academic email	vittoria.mattionimarchetti@unipv.it vittoria.mattionimarche01@universitadipavia.it
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Education and training

Qualification	PhD in “Genetics, Molecular and Cellular Biology” at University of Pavia, ciclo XXXII, 09/01/2020. Thesis title: <i>“Multi-drug resistant (MDR) and Extensively-drug resistant (XDR) Gram-negative bacteria of clinical interest: laboratory diagnosis, clinical management and infection control”</i> .
Other qualification	Master degree in “Sperimental and applied Biology” , University of Pavia, 28/07/2016. Thesis title: <i>“Isolati clinici di Escherichia coli produttori di carbapenemasi di tipo KPC un problema emergente in Italia”</i>
Professional experiences	<ul style="list-style-type: none">❖ Second year student at Specialization School in Microbiology and Virology University of pavia, from 2024 to today.❖ National scientific qualification for the role of Associate Professor, 9th November 2024.❖ Assistant Professor non-tenure track (rtdA), from 1st March 2023 to today, University of Pavia, Department S.C.C.D.P., Microbiology and Clinical Microbiology Unit.❖ Senior Researcher, from 1st November 2022 to 28th February 2023, Charles University in Plzen, Czech Republic.❖ Contract professor, from 01/03/2022 to 01/03/2023:❖ Lecturer for course “Metodologia Diagnostica in Microbiologia Clinica” for Bachelor students in Biotechnology, University of pavia.❖ Lecturer for course “Meccanismi di antibiotico resistenza: diagnostica e impatto clinico” for students in Medicine and Surgery, University if Pavia.❖ Junior Researcher, from 01/03/2020 to 30/09/2022, Biomedical cente, Charles University in Plzen, Czech Republic:<ul style="list-style-type: none">- Supervise doctoral students.

	<ul style="list-style-type: none"> - Supporting microbiology laboratory in Pilsen hospital for Fosfomycin resistance evaluation. - Description of antibiotic resistance phenomenon in Gram-negative bacteria (e.g. <i>Enterobacteriales</i>). - Study of fosfomycin and colistin resistance mechanisms in MDR Gram-negative strains. - Study of fosfomycin (both plasmidly and chromosomly) mechanisms in carbapenemase-producing <i>Enterobacteriales</i> strains - Study of carbapenemases resistance mechanisms in clinical and environmental Gram-negative strains. - Phenotypical evaluation of MDR and carbapenemases-producing isolates. - Genomic characterization of isolates of clinical interest through Third-generation sequencing (PacBio Sequel). - Bioinformatic analysis of genome and plasmid sequences. - Characterization and description of plasmids' environment harboring antibiotic resistance genes. <p>❖ National qualification to practice the profession of biologist, December 2018, University of Pavia. Registered with the national order of Italian biologists (personal number: AA_100663).</p> <p>❖ PhD in “Genetics, Molecular and Cellular Biology”, cycle XXXII, from 01/10/2016 to 09/01/2020, University of Pavia.</p> <ul style="list-style-type: none"> - Acquired-fosfomycin resistance mechanisms in Gram Negative from clinical samples. - Outbreak events caused by clinical Multi-drug resistance and carbapenemases-producing clones. - Acquired-fluoroquinolone/aminoglycoside resistance mechanisms in <i>Enterobacteriaceae</i> from breeding/companion animals and human samples. - β-lactamases epidemiology in Gram Negative bacteria from both human (Hospital and Long-Term Care Facilities) and animal samples (breeding and companion animals). <p>❖ Internship at Biomedical Center in Plzen (Charles University in Plzen), from 06/01/2019 to 01/03/2019.</p> <ul style="list-style-type: none"> - Plasmid and bacterial genome sequencing using Illumina and Sequel PacBio systems. - Reads assembly and analysis using bioinformatic tools. - Whole sequenced plasmid annotation. - PFGE S1 and Southern blot analysis of plasmids. - Trasformation of plasmids into chemically competent <i>E. coli</i> laboratory strain. 	
Languages	<p>Italian: native language. English: B2. Czech: A2. French: A1.</p>	
Technologies ability	<p>Good knowledge of next-generation sequencing on illumina, PacBio Sequel and Oxford Nanopore platforms. Good knowledge of Office package. Good knowledge of Ubuntu system. Good knowledge of bioinformatics tools.</p>	

	<p>Good knowledge of R package. Good knowledge of digital drawing using Procreate.</p>	
<p>Other</p>	<p>Publications:</p> <ol style="list-style-type: none"> 1 Adesoji AT, Mattioni Marchetti V, Cortimiglia C, Piscopiello F, Petrizzi I, Piazza A, Alabi ED, Cocconcilli PS, Migliavacca R. Antibiotic resistance and novel Sequence Types of Klebsiella spp. in human, animal, and food sources: a One Health perspective from Northern Nigeria. <i>Curr Res Microb Sci.</i> 2025 Aug 16;9:100458. doi: 10.1016/j.crmicr.2025.100458. 2 Mattioni Marchetti V, Petrizzi I, Venturelli I, Cassetti T, Meschiari M, Migliavacca R, Bitar I. Fosfomycin resistant E. coli: the first case of FosA10 in Italy. <i>JAC-antimicrob res.</i> doi: 10.1093/jacamr/dlaf052. 3 Mattioni Marchetti V, Corbella M, Piazza A, Gaiarsa S, Mileto I, Merla C, Kuka A, Abu Alshaar A, Cambieri P, Migliavacca R, Baldanti F. Polyclonal carbapenemase-producing <i>Escherichia coli</i> in Northern Italy: the emergence of NDM-7. <i>Front Cell Infect Microbiol.</i> 2025 March. doi: 10.3389/fcimb.2025.1519827 4 Mattioni Marchetti V, Venturelli I, Cassetti T, Meschiari M, Migliavacca R, Bitar I. FosA3 emerging in clinical carbapenemase-producing <i>C. freundii</i>. <i>Front Cell Infect Microbiol.</i> 2024 Aug 6;14:1447933. doi: 10.3389/fcimb.2024.1447933. 5 Mattioni Marchetti V, Kuka A, Piazza A, Gaiarsa S, Merla C, Sottosanti M, Cambieri P, Migliavacca R, Baldanti F. <i>Enterobacter asburiae</i> ST229: an emerging carbapenemases producer. <i>Sci Rep.</i> 2024 Mar 14;14(1):6220. doi: 10.1038/s41598-024-55884-y. Erratum in: <i>Sci Rep.</i> 2024 May 1;14(1):9987. doi: 10.1038/s41598-024-60104-8. 6 Chudejova K, Caltagirone MS, Mattioni Marchetti V, Rezzani A, Navarra A, Bitar I. FosA8-producing <i>E. coli</i> ST131: clinical cases in Italy, February 2023. <i>Euro Surveill.</i> 2024 May;29(21):2400276. doi: 10.2807/1560-7917.ES.2024.29.21.2400276. 7 Piazza A, Corbella M, Mattioni Marchetti V, Merla C, Mileto I, Kuka A, Petazzoni G, Gaiarsa S, Migliavacca R, Baldanti F, Cambieri P. Clinical isolates of ST131 <i>bla</i>OXA-244-positive <i>Escherichia coli</i>, Italy, December 2022 to July 2023. <i>Euro Surveill.</i> 2024 Feb;29(8):2400073. doi: 10.2807/1560-7917.ES.2024.29.8.2400073. 8 Piazza A, Mattioni Marchetti V, Bielli A, Biffignandi GB, Piscopiello F, Giudici R, Tartaglione L, Merli M, Vismara C, Migliavacca R. A novel KPC-166 in ceftazidime/avibactam resistant ST307 <i>Klebsiella pneumoniae</i> causing an outbreak in intensive care COVID Unit, Italy. <i>J Microbiol Immunol Infect.</i> 2024 Jun;57(3):457-469. doi: 10.1016/j.jmii.2024.03.004. 9 Mattioni Marchetti V., Hrabak J., Bitar I. Fosfomycin resistance mechanisms in <i>Enterobacterales</i>: an increasing threat. <i>Front Cell Infect Microbiol.</i> 2023 Jul 4;13:1178547. doi: 10.3389/fcimb.2023.1178547. 	

- 10 Nodari C.S., Opazo-Capurro A., Castillo-Ramirez S., **Mattioni Marchetti V.** Editorial: Mobile genetic elements as dissemination drivers of multidrug-resistant Gram-negative bacteria. *Front Cell Infect Microbiol.* 2023 Mar 17;13:1180510. doi:10.3389/fcimb.2023.1180510.
- 11 **Mattioni Marchetti V.**, Kraftova L., Finianos M., Sourenian T., Hrabak J., Bitar I. *Polyclonal spread of Fosfomycin resistance among Carbapenemase-producing Enterobacterales in the Czech Republic.* *Microbiol Spectr.* 2023 Jun 15;11(3):e0009523. doi:10.1128/spectrum.00095-23.
- 12 Bitar I., Papagiannitsis C., Kraftova L., **Mattioni Marchetti V.**, Petinaki E., Finianos M., Chudejova K., Zemlickova H., and Hrabak J. *Implication of different replicons in the spread of the VIM-1-encoding integron, In110, in Enterobacterales from Czech hospitals.* *Front Microbiol.* 2023 Jan 4;13:993240. doi: 10.3389/fmicb.2022.993240.
- 13 AbuAlshaar A., Piazza A., Mercato A., Marchesini F., **Mattioni Marchetti V.**, Bitar I., Hrabak J., Spalla M., Pilla G., Sconfiatti R., Migliavacca R. *OXA-244-Producing ST131 Escherichia coli From Surface and Groundwaters of Pavia Urban Area (Po Plain, Northern Italy).* *Front Microbiol.* 2022 Jun 9;13:920319. doi: 10.3389/fmicb.2022.920319.
- 14 Piazza A., Principe L., Comandatore F., Perini M., Meroni E., **Mattioni Marchetti V.**, Migliavacca R., Luzzaro F. *Whole-Genome Sequencing Investigation of a Large Nosocomial Outbreak Caused by ST131 H30Rx KPC-Producing Escherichia coli in Italy.* *Antibiotics* 2021, 10, 718. <https://doi.org/10.3390/antibiotics10060718>
- 15 Chudejova K., Kraftova L., **Mattioni Marchetti V.**, Hrabak J., Papagiannitsis C.C., Bitar I. *Genetic plurality of OXA/NDM-Encoding features characterized from Enterobacterales recovered from Czech Hospitals.* *Front Microbiol.* 2021 Feb 9;12:641415. doi: 10.3389/fmicb.2021.641415.
- 16 **Marchetti V.M.**, Bitar I., Sarti M., Fogato E., Scaltriti E., Bracchi C., Hrabak J., Pongolini S., Migliavacca R. *Genomic Characterization of VIM and MCR co-producers: the first two clinical cases, in Italy.* *Diagnostics (Basel)*, 2021 Jan 6;11(1):79. doi: 10.3390/diagnostics11010079.
- 17 Bitar I., Papagiannitsis C.C., Kraftova L., Chudejova K., **Mattioni Marchetti V.**, Hrabak J. *Detection of five mcr-9-carrying Enterobacterales isolates in four Czech Hospitals.* *mSphere*, 2020 Dec 9;5(6):e01008-20. doi: 10.1128/mSphere.01008-20.
- 18 **Mattioni Marchetti V.**, Bitar I., Piazza A., Mercato A., Fogato E., Hrabak J., Migliavacca R. *Genomic insight of VIM-harboring IncA plasmid from a clinical ST69 Escherichia coli strain in Italy.* *Microorganisms*, 2020 Aug 12;8(8):1232. doi: 10.3390/microorganisms8081232.
- 19 Nucleo E., **Marchetti V.M.**, Mercato A., Quatela M., Villa L., Migliavacca R. *OXA-48 and NDM-1 Klebsiella pneumoniae of Sequence Type 101 from blood in a patient with travel history*

abroad, Italy. New Microbiol, 2020 Jan;43(1):41-43. Epub 2020 Mar 1

- 20 Bitar I., **Mattioni Marchetti V.**, Mercato A., Nucleo E., Anesi A., Bracco S., Rognoni V., Hrabak J., Migliavacca R. *Complete genome and plasmids sequences of a clinical Proteus mirabilis isolate producing plasmid mediated NDM-1 from Italy.* Microorganisms, 2020 Feb 28;8(3):339. doi: 10.3390/microorganisms8030339.
- 21 **Marchetti V.M.**, Bitar I, Mercato A, Nucleo E, Bonomini A, Pedroni P, Hrabak J, Migliavacca R. Complete Nucleotide Sequence of Plasmids of Two *Escherichia coli* Strains Carrying *bla*_{NDM-5} and *bla*_{NDM-5} and *bla*_{OXA-181} From the Same Patient. Front Microbiol. 2020 Jan 21;10:3095. doi: 10.3389/fmicb.2019.03095.
- 22 **Mattioni Marchetti V.**, Bitar I., Mercato A., Nucleo E., Marchesini F., Mancinelli M., Prati P., Scarsi G., Pagani L., Fabbi M., Migliavacca R. *Deadly puppy infection caused by an MDR Escherichia coli O141 blaCTX-M-15, blaCMY-2, blaDHA-1 and aac(6)-Ib-cr -positive in a breeding kennel in Central Italy.* Frontiers in Microbiology, 2020 Apr 15;11:584. doi: 10.3389/fmicb.2020.00584.
- 23 Bitar I., Caltagirone M., Villa L., **Mattioni Marchetti V.**, Nucleo E., Sarti M., Migliavacca R., Carattoli A. *Interplay among IncA and blaKPC carrying plasmids in Citrobacter freundii.* Antimicrobial Agents and Chemotherapy, 2019 Apr 25;63(5):e02609-18. doi: 10.1128/AAC.02609-18.
- 24 Espinal P., Nucleo E., Caltagirone M., **Marchetti V.M.**, Fernandes M.R., Biscaro V., Rigoli R., Carattoli A., Migliavacca R., Villa L. *Genomics of Klebsiella pneumoniae ST16 producing NDM-1, CTX-M-15 and OXA-232.* Clin Microbiol Infect. 2018 Nov 22. doi: 10.1016/j.cmi.2018.11.004.
- 25 Piazza A., Comandatore F., Romeri F., Pagani C., **Mattioni Marchetti V.**, Brilli M., Panelli S., Migliavacca R., Ridolfo A., Olivieri P., Gismondo MR., Bandi C., Rimoldi SG. *Detection of ST1702 Escherichia coli blaNDM-5 and blaCMY-42 genes positive isolates from a Northern Italian hospital.* New Microbiol. 2018 Jul 20;41(3):230-231. Epub 2018 Jul 20.
- 26 Nucleo E., Caltagirone M., **Marchetti V.M.**, D'Angelo R., Fogato E., Confalonieri M., Reboli C., March A., Sleghe F., Soelva G., Pagani E., Aschbacher R., Migliavacca R., Pagani L.; AMCLI – GLISTer Group; ESCMID Study Group Elderly Infections – ESGIE. *Colonization of long-term care facility residents in three Italian Provinces by multidrug-resistant bacteria.* Antimicrob Resist Infect Control. 2018 Mar 6;7:33. doi: 10.1186/s13756-018-0326-0.
- 27 Piazza A., Comandatore F., Romeri F., Pagani C., Floriano A.M., Ridolfo A., Antona C., Brilli M., **Mattioni Marchetti V.**, Bandi C., Gismondo M.R., Rimoldi S.G. *First Report of an ST410 OXA-181 and CTX-M-15 Coproducing Escherichia coli Clone in Italy: A Whole-Genome Sequence Characterization.* Microb Drug Resist. 2018 Feb 23. doi: 10.1089/mdr.2017.0366.

- 28 Caltagirone M., Nucleo E., Spalla M., Zara F., Novazzi F., **Marchetti V.M.**, Piazza A., Bitar I., De Cicco M., Paolucci S., Pilla G., Migliavacca R., Pagani L. *Occurrence of Extended Spectrum β -Lactamases, KPC-Type, and MCR-1.2-Producing Enterobacteriaceae from Wells, River Water, and Wastewater Treatment Plants in Oltrepò Pavese Area, Northern Italy*. Front Microbiol. 2017 Nov 10;8:2232. doi: 10.3389/fmicb.2017.02232.
- 29 March A., Aschbacher R., Slegel F., Soelva G., Kaczor M., Migliavacca R., Piazza A., **Mattioni Marchetti V.**, Pagani L., Scalzo K., Paschetto V., Pagani E. *Colonization of residents and staff of an Italian long-term care facility and an adjacent acute care hospital geriatric unit by multidrug-resistant bacteria*. New Microbiol. 2017 Oct;40(4):258-263. Epub 2017 Oct 10.

Citations (Web of Science): 414

H-index: 13

Posters, oral communications and congress presentations:

- ❖ **Mattioni Marchetti V.** *Molecular characterization of fosfomycin resistance emerging Enterobacteriales strains*. Oral presentation at INF-ACT Meeting, Pavia, 11-12 September 2024.
- ❖ Piscopiello F., **Mattioni Marchetti V.**, Petrizzi I., Cassetti T., Venturelli I., Sarti M., Migliavacca R. *Citrobacter freundii ST396: a global reservoir of fosA7.9 determinant*. Poster at LII CONGRESSO NAZIONALE SIM, Pavia, 8-11 September 2024.
- ❖ Piazza A., **Mattioni Marchetti V.**, Cortimiglia C., Adesoji A., Cocconcilli P.S., Migliavacca R. *Providencia nigeriae: a novel species within Providencia spp. from African continent*. Poster at LII CONGRESSO NAZIONALE SIM, Pavia, 8-11 September 2024.
- ❖ **Mattioni Marchetti V.**, Piazza A., Piscopiello F., Petrizzi I., Migliavacca R. *Klebsiella pneumoniae ST22: a novel menace?* Oral communication at LII CONGRESSO NAZIONALE SIM, Pavia, 8-11 September 2024.
- ❖ **Mattioni Marchetti V.**, Piazza A., Distasi M.A., Gisotti A., Piscopiello F., Bruno R., Crapolicchio A., Ceci L., Migliavacca R. *OXA-48-like-producing ST366 Serratia marcescens: the raise of a novel European cluster*. Poster at LI CONGRESSO NAZIONALE AMCLI, Rimini 8-11 March 2024.
- ❖ **Mattioni Marchetti V.**, Bitar I., Piazza A., Cassetti T., Venturelli I., Sarti M., Migliavacca R. *Emergence of C. freundii ST116 in Italy: co-occurrence of fosfomycin and carbapenem resistance genes*. Poster at LI CONGRESSO NAZIONALE AMCLI, Rimini 8-11 March 2024.
- ❖ **Mattioni Marchetti V.** *Inhibitor escape e strategie di monitoraggio: il caso Klebsiella pneumoniae KPC-166. Relatore al convegno "LA PANDEMIA SILENZIOSA: SFIDE E BUONE PRATICHE PER CONTRASTARE L'ANTIBIOTICO-RESISTENZA"* organized by AMCLI association. Pavia, 15 October 2023.
- ❖ Chudejova K., **Mattioni Marchetti V.**, Caltagirone M.S., Finianos M.,

Rezzani A., Navarra A., Hrabak J., Bitar I. *Fosfomycin resistance in E. coli ST131: an emerging Italian threat*. Poster at XXXII ECCMID Congress, Copenhagen 15-18 April 2023.

- ❖ **Mattioni Marchetti V.**, Finianos M., Kraftova L., Hrabak J., Bitar I. *Molecular insight of Fosfomycin resistant in carbapenemases producing Enterobacterales among Czech Republic*. Poster at XXXII ECCMID Congress, Lisbon 22-26 April 2022.
- ❖ **Mattioni Marchetti V.**, Finianos M., Kraftova L., Hrabak J., Bitar I. *Glucose-6-phosphate mueller hilton agar as support for rapid detection of fosfomycin profiles in Escherichia coli*. Poster at XXXII ECCMID Congress, Lisbon 22-26 April 2022.
- ❖ **Mattioni Marchetti V.**, Finianos M., Kraftova L., Chudejova K., Papagiannitsis C., Bitar I. and Hrabak J. *Three-years surveillance of VIM-producing Enterobacterales in Czech Republic*. iPoster at ASM Microbe Forum, 24-26 June 2021.
- ❖ **Mattioni Marchetti V.**, Principe L., Viaggi V., Mercato A., Marchesini F., Mancinelli M., Nucleo E., Migliavacca R., Luzzaro F. *One-year monitoring study of epidemiology and antibiotic resistance of Acinetobacter baumannii isolates in one hospital in Northern Italy*. Poster at 12th Symposium on the Biology of Acinetobacter, Frankfurt/Main 4-6 September 2019.
- ❖ **Mattioni Marchetti V.**, Caltagirone M., Mercato A., Nucleo E., Bonomini A., Pedroni P., Migliavacca R. *Enteropathogenic ST2659 and ST405 Escherichia coli strains blaNDM-5-positive causing diarrhea in an infant, Italy*. Poster at XXIX ECCMID Congress, Amsterdam 13-16 April 2019.
- ❖ **Mattioni Marchetti V.**, Caltagirone M., Mercato A., De Servi M., Nucleo E., Gona F., Ci- chero P., Cirillo D., Migliavacca R. *Sensibilità a Fosfomicina in isolati clinici di Klebsiella pneumoniae-MDR: Metodi a confronto*. Poster at XLVII CONGRESSO NAZIONALE AMCLI, Rimini 10-13 November 2018.
- ❖ **Mattioni Marchetti V.**, Caltagirone M., Mercato A., Novazzi F., Nucleo E., Spalla M., Prati P., Scarsi G., Migliavacca R., Pagani L., Fabbi M. *Deadly puppy infection caused by an MDR ST58 E. coli O141 blaCTX-M-15, CMY-II, DHA-1 and aac(6')-Ib-cr -positive in a breeding of Central Italy*. Poster at XLVI CONGRESSO NAZIONALE SIM, Palermo 25-30 September 2018.
- ❖ **Mattioni Marchetti V.**, Piazza A., Caltagirone M., Novazzi F., Nucleo E., Fogato E., Pagani L., D'Angelo R., Migliavacca R. *Emergence of fosA5 plasmid-mediated gene in ST16, ST307, ST258/512 KPC-Klebsiella pneumoniae strains from a Long Term and Rehabilitation Facility in Northern Italy*. Poster at XXVIII ECCMID Congress, Madrid 21-24 April 2018.
- ❖ **Mattioni Marchetti V.**, Biscaro V., Campion L., Francescon M., Caltagirone M., Novazzi F., Nucleo E., Migliavacca R., Pagani L., Rigoli R. *Evento epidemico da ST16 Klebsiella pneumoniae NDM- ed OXA-48-type co-produttore nel Nord Italia*. Oral comunicazione at XLVI CONGRESSO NAZIONALE AMCLI, Rimini 11-14 November 2017.
- ❖ **Mattioni Marchetti V.**, Piazza A., Caltagirone M., Novazzi F., Nucleo E., Fogato E., Pagani L., D'Angelo R., Migliavacca R. *Emergence of*

fosKP96 plasmid-mediated resistance mechanism in KPC-Klebsiella pneumoniae clinical strains in Italy. Poster at XLVI CONGRESSO NAZIONALE SIM, Genova 26-29 September 2017.

- ❖ Bitar I., Villa L., Caltagirone M., Piazza A., Novazzi F., **Mattioni Marchetti V.**, Nucleo E., Spalla M., Sarti M., Migliavacca R. *Emergence of KPC-producing Citrobacter freundii in an Italian hospital.* Poster at XLV CONGRESSO NAZIONALE SIM, Pisa 2016.

Management or participation in funded and unfunded research projects:

- Participation as researcher at the project "Fighting Infectious Diseases ID Nr. CZ.02.1.01/0.0/0.0/16_019/0000787" funded by AZV ČR of Czech Republic at the Biomedical Center in Plzen, Charles University in Plzen dal 01-03-2020 al 28-02-2023.
- Participation as researcher at the project funded by Ministry of Education, Youth and Sport of the Czech Republic - National Sustainability Program I (LO1503 - BIOMEDIC), project number: CZ.1.05/2.1.00/03.0076 dal 01-03-2020 al 28-02-2023.
- Participation as investigator at the project NU20J-05-00033 funded by "Agentura pro zdravotnický výzkum České republiky" (AZV ČR) of the Czech Republic at Biomedical Center in Plzen, Charles University in Plzen from 01-07-2020 to 28-02-2023.
- Participation as Senior researcher at the project "National Institute of Virology and Bacteriology n. LX22NPO5103" at Biomedical Center in Plzen funded by European Union within the NEXTGEN-EU program from 01-01-2022 to 28-02-2023.
- Participation as researcher at the study "Caratterizzazione fenotipica e molecolare di isolati clinici di Enterobatteri resistenti alla fosfomicina" called by ICS Maugeri Spa-SB of Pavia, from 28-11-2022 to today.
- Assistant professor at University of Pavia, within the PNRR INF-ACT, RESEARCH NODE 3: Antimicrobial Resistance (AMR) (WP3.3 - Molecular monitoring of resistance genes and commonly associated bacterial species; preparation of microorganism-specific multigene panels for clinical, animal, and environmental matrices). from 01-03-2023 to today.
- Participation as researcher at the project "Valutazione della sensibilità a fosfomicina e meccanismi di resistenza a tale molecola, in Enterobatteri di isolamento clinico", called by Fondazione I.R.C.C.S. Policlinico San Matteo di Pavia, from 01-08-2023 to today.
- Head of the epidemiological project on fosfomicin resistance in hospital environments in the Czech Republic and the search for new strategies for rapid detection of fosfomicin resistance. The project was carried out at the Biomedical Center in Plzen and Charles University in Plzen.
- Principal Investigator of the project "Epidemiology of fosfomicin resistance in the Czech Republic" (numero di progetto NU23J-09-00067) funded by Ministerstvo Zdravotnictvi Ceste Republiky", the Czech Republic.

Grant and awards:

- ❖ ECCMID 2018 Travel grant for ESCMID Young Scientist members.
- ❖ Principal investigator in the project “Epidemiology of fosfomycin resistance in the Czech Republic” (NU23J-09-00067) funded by the Czech Health Research Council, Czech Republic.
- ❖ INF-ACT Early Career Award 2024 for the project “*Molecular characterization of fosfomycin resistance emerging Enterobacterales strains*”. This research have been funded by European Union within the NextGenerationEU-MUR PNRR (project n. PE00000007, INF-ACT).

Book chapters:

- ❖ “**In principio era il virus**”; chapter “Meccanismi di mutazione virale”. ISBN-13: 979-8882639449
- ❖ “**Vite parassite**”; chapter “Storia delle epidemie parassitarie”. ISBN 13: 979-8305463101.

Editorial activities:

- ❖ **Guest associate Editor**, from 1st May 2022, in Molecular Bacterial Pathogenesis, Frontiers in Cellular and Infection Microbiology.
- ❖ **Topic Editor**, from 3rd June 2022, for the topic “Mobile Genetic Elements as Dissemination Drivers of Multidrug-Resistant Gram-negative Bacteria”, Frontiers in Cellular and Infection Microbiology.
- ❖ **Review Editor**, from 19/07/2022, in Antibiotic Resistance and New Antimicrobial drugs, Frontiers in Cellular and Infection Microbiology.
- ❖ **Review Editor**, from September 2025, in Springer-Nature Publish group.

Member of Study groups:

- ❖ ESCMID Study Group for Antimicrobial Resistance Surveillance (ESGARS);
- ❖ ESCMID Food- and Water-borne Infections Study Group (EFWISG);
- ❖ ESCMID Study Group for Genomic and Molecular Diagnostics;
- ❖ AMCLI “Diagnostica Microbiologica declinata *omica*” Study Group (GLaDiMiDO).