

## Curriculum Vitae

### Viola Camilla Scoffone

#### EDUCATION/TRAINING:

- **October 2009 - October 2012: PhD Student** in Genetic and Biomolecular Sciences, Doctoral Degree School at the University of Pavia.  
**Thesis title:** “Part I Regulatory aspects of NAD biosynthesis in *Bacillus subtilis*-Part II Strain improvement for  $\gamma$ -PGA production in *Bacillus subtilis*.”  
**Scientific supervisor:** Prof. Alessandra M. Albertini. Laboratory of Molecular Genetics, Department of Biology and Biotechnology, University of Pavia.
- **October 2007 - September 2009: Master Degree** in “Biologia Sperimentale ed Applicata”, at the University of Pavia.  
**Thesis title:** “Regolazione trascrizionale della sintesi *de novo* del NAD in *Bacillus subtilis*: analisi mutazionale del regolatore NiaR.  
Scientific supervisor: Prof. Alessandra M. Albertini. Laboratory of Molecular Genetics, Department of Biology and Biotechnology, University of Pavia.  
Final mark: 110/110 cum laude
- **September 2004 - July 2007: Bachelor Degree** in “Biotechnologie” at the University of Pavia.  
**Thesis title:** “Costruzione di un ceppo di *Bacillus subtilis* per la mutagenesi mirata di NadR, regolatore della sintesi *de novo* del NAD(P)”.  
**Scientific supervisor:** Prof. Alessandra M. Albertini. Laboratory of Molecular Genetics, Department of Biology and Biotechnology, University of Pavia.

#### POSITIONS and RESEARCH ACTIVITY

**December 2022 – Today** Researcher, Assistant Professor, RTD-A. **Research fields:** Studies on the *B. cenocepacia* cell division machinery. Molecular characterization of a new drug effective against *Staphylococcus aureus* *Pseudomonas aeruginosa* and *Burkholderia cenocepacia*.

**January 2021 – November 2022** Postdoc, under the supervision of Dr. Giulia Barbieri and Dr. Silvia Buroni, Department of Biology and Biotechnology, University of Pavia. **Research fields:** 1) characterization of a *Streptococcus agalactiae* strain carrying the deletion of the gene *codY* 2) molecular characterization of a new drug effective against *Staphylococcus aureus* *Pseudomonas aeruginosa* and *Burkholderia cenocepacia*.

**September 2019** Visiting researcher at the Laboratory of Dr. Giulia Manina, Microbial Individuality and Infection Unit, Department of Cell Biology & Infection, Institute Pasteur, Paris.

**June 2018** Visiting researcher at the Laboratory of Dr. Giulia Manina, Microbial Individuality and Infection Unit, Department of Cell Biology & Infection, Institute Pasteur, Paris.

**January 2018 – December 2020** Postdoc, on translational research, Department of Biology and Biotechnology, University of Pavia. **Research fields:** studies on the *B. cenocepacia* cell division machinery. (Assegno di tipo A e B)

**November 2016 – December 2017** Postdoc, under the supervision of Prof. Giovanna Riccardi, Department of Biology and Biotechnology, University of Pavia. **Research fields:** molecular characterization of the cellular target of a new drug effective against *Burkholderia cenocepacia*. (Assegno di tipo B).

**November 2015 – November 2016** Fellowship granted by the Italian Cystic Fibrosis Research Foundation, research project: “Inhalable formulations of new molecules effective against *Burkholderia cenocepacia*: from *in vitro* to *in vivo* applications” (FFC#19/2015), under the supervision of Prof. Giovanna Riccardi, Department of Biology and Biotechnology, University of Pavia. **Research fields:** 1) identification and characterization of the cellular target of new drugs effective against *Burkholderia cenocepacia*; 2) studies on AHL-synthases of *B. cenocepacia*.

**November 2013 – November 2015** Postdoc, under the supervision of Prof. Giovanna Riccardi, Department of Biology and Biotechnology, University of Pavia. **Research fields:** identification and characterization of new drugs active against *Burkholderia cenocepacia* and *Mycobacterium tuberculosis*. Studies on the role of RND drug efflux transporters in the intrinsic antibiotic resistance of *Burkholderia cenocepacia*. (Assegno di tipo B).

**November 2012 - November 2013** Fellowship funded by the Italian Cystic Fibrosis Research Foundation, on the research project: “A very promising drug against *Burkholderia cenocepacia*” (FFC Project#10/2012), under the supervision of Prof. Giovanna Riccardi, Department of Biology and Biotechnology, University of Pavia. **Research fields:** characterization of efflux pumps as mechanism of resistance in *B. cenocepacia*. Expression and purification of RND-4 efflux pump of *B. cenocepacia*, studies on the TetR family transcriptional regulator of the RND-4, BCAL2823 in *B. cenocepacia*.

#### **HABILITATION (ASN):**

**May 2022. ASN2021/2023:** National Scientific Qualification as Associate Professor of Microbiology (SSD 05/I2, BIO/19).

#### **TEACHING EXPERIENCES:**

**From september 2021 - today:** Teacher for the courses “Integrated Laboratory of Experimental Biology, Section 1 (Microbiology)” for bachelor degree in Biotechnology.

**From 2007 to 2013:** Tutor of “Genetica II e Laboratorio” course of Bachelor degree in Biotechnology (curriculum biomolecolare) and of “Genetica II e Laboratorio di metodologie genetiche” course of Bachelor degree in Biological Sciences (curriculum biomolecolare).

**From 2017 to 2020:** Tutor of “Laboratorio integrato di Biotechnologie molecolari; modulo di Microbiologia”, course of Bachelor degree in Biotechnology.

**January 2021:** Seminars for “Laboratorio Integrato di Biotecnologie molecolari; modulo di Microbiologia” (6 hours), course of Bachelor degree in Biotechnology.

**From 2018 to today:** “Cultore della Materia BIO/19 – Microbiologia generale”

Co-supervisor of 14 thesis: Bachelor degree in Biotechnology (5); Bachelor degree in Biological Sciences (2); Master degree in Advance Biotechnology (3); Master degree in Experimental and Applied Biology (1) and Master degree in Molecular Biology and Genetics (3).

#### **Awards:**

- Gerd Döring Award 2017 from European Cystic Fibrosis Society.
- Awarded with a Post-Doctoral fellowship on translational research at the Department of Biology and Biotechnology, University of Pavia.

#### **Reviewer activity:**

Reviewer for research articles in the field of molecular microbiology: Antibiotics-Basel, Microorganisms, Molecules. Reviewer board member of Antibiotics and review editor of Frontiers in Microbiology and Frontiers in Genetics.

#### **Membership:**

Member of the Italian Society of General Microbiology and Microbial Biotechnology (SIMGBM).

#### **Participation to national and international projects:**

- From January 2021 to present: Participant to the project 2017-0785 “Exploring the role of the transcriptional regulator CodY in the pathogenesis of neonatal Group B streptococcal meningitis” founded by Cariplo foundation, (PI: Dr. Giulia Barbieri, University of Pavia, Italy).
- From 2019 to present: Participant to the project “Next-generation antibacterials: new targets for old drugs and new drugs for old targets” which was funded by the Italian Ministry of Research under the PRIN 2017. (PI: Prof. Paolo Visca, University of Roma TRE, Italy).
- From 2017 to 2020: Participant to the project “*Burkholderia cenocepacia* divisive as a new target to hit a rare cystic fibrosis pathogen”. Blue Sky Research, University of Pavia. (PI: Dr. Silvia Buroni). Collaborations: Dr. Giulia Manina, Institute Pasteur (France); Prof. Federico Forneris, University of Pavia (Italy).
- From 2017 to 2019: Participant to the project “New inhalable compounds against the CF pathogen *Burkholderia cenocepacia*”. Cystic Fibrosis Foundation 2017 (PI: Prof. Giovanna Riccardi). Collaborations: Dr. V. Makarov, Bakh Institute of Biochemistry Moscow (Russia), Prof. F. Ungaro, University of Naples (Italy); Dr. A. Bragonzi, San Raffaele hospital Milan (Italy); Prof. S.T. Cardona, Manitoba University (Winnipeg, Canada); Prof. F. Forneris, University of Pavia (Italy).
- From 2015 to 2017: Participant to the project “Inhalable formulations of new molecules effective against *Burkholderia cenocepacia*: from *in vitro* to *in vivo* applications”. Fondazione per la Ricerca sulla Fibrosi cistica 2015 (PI: Prof. Giovanna Riccardi). Collaborations: Prof. T. Coenye, Gent University (Belgium), Dr. V. Makarov, Bakh Institute of Biochemistry Moscow (Russia), Prof. F. Ungaro, University of Naples (Italy); Dr. A. Bragonzi, San Raffaele hospital Milan (Italy).
- From 2012 to 2014: Participant to the project “A very promising drug against *Burkholderia cenocepacia*”. Fondazione per la Ricerca sulla Fibrosi cistica 2012 (PI: Prof. Giovanna Riccardi). Collaborations: Prof. R. Fani, University of Florence (Italy); Prof. T. Coenye, Gent University (Belgium); Dr. V. Makarov, Bakh Institute of Biochemistry Moscow (Russia).

## **SCIENTIFIC PRODUCTION**

Author of **25 publications** on international peer-reviewed indexed journals (**15 as first author**), 2 book chapters and 19 communications to national and international congresses (4 of which selected for oral presentation).

h-index scopus: 12

citations scopus: 407

(as of March 2023)