

**Ilenia Cruciata**  
CURRICULUM VITAE

## PERSONAL INFORMATION

**Last Name:** Cruciata  
**First Name:** Ilenia  
**Date of Birth:** 16 October 1986  
**Email:** ilenia.cruciata@unipa.it

## EDUCATION AND DEGREES

### **Ph.D. in Molecular and Biomolecular Sciences (XXXIV Cycle)**

University of Palermo, Italy

*Conferred:* 20 January 2023

**Thesis:** "Enhanced Bioremediation and Microbiological Monitoring of Groundwater Contaminated by Chlorinated Solvents"

- Conducted at the Environmental Microbiology and Microbial Ecology Laboratory (EMME-lab), Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF)
- SSD: BIOS-15/A
- Supervisor: Prof. Andrea Pace; Co-supervisor: Prof.ssa Paola Quatrini
- Duration: 1 November 2018 – 30 September 2022 (8-month maternity leave and parental leave; 3-month COVID-19 extension per DL 41/2021)

### **M.Sc. in Health Biology (Class LM-6)**

University of Palermo, Italy

*Conferred:* 8 October 2014

**Grade:** 110/110 cum laude, with distinction for thesis originality

**Thesis:** "Inflammation–Epigenetics Axis: Methylation Analysis of the *IL10* Gene Promoter in an IL-1 $\beta$ -Induced In Vitro Model of Intestinal Inflammation"

- Supervisor: Prof. Fabio Caradonna; Co-supervisor: Prof. Carla Gentile

### **B.Sc. in Biological Sciences (Biohealth Curriculum, Class L-12)**

University of Palermo, Italy

*Conferred:* 28 March 2011

**Grade:** 110/110 cum laude

**Thesis:** "Oxidative Stress Analysis in Cultured Human Tumor Cells"

- University Tutor: Prof. Anna De Blasio

### **Professional Qualification:**

Biologist Section A License (second session, 2015) — University of Palermo

# RESEARCH EXPERIENCE

**Research Fellow (Type A)** — SSD BIOS-14/A Genetics, STEBICEF, University of Palermo

- **Project:** HEAL ITALIA — Health Extended Alliance for Innovative Therapies (NRRP M4.2.1.3), funded by the EU NextGenerationEU
- **Contract:** 3 Aug 2023 – 2 Aug 2026

**Postgraduate Research Fellow** — Epi-geno-toxicological analyses on cell culture models (SSD BIOS-14/A), DOLFIN S.p.A. funds, 2017–2018

## Traineeships:

- Post-graduate in Genetic and Cell Biology, 2014–2017
- M.Sc. Internship in Genetic and Cell Biology, 2013–2014
- B.Sc. Internship in Biochemistry, 2010–2011

# TEACHING EXPERIENCE

**University of Palermo, Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF)**

## Lecturer and Teaching Contracts

- **Genetics with Practical Exercises (9 CFU, SSD BIOS-14/A)** — B.Sc. in Biological Sciences (Trapani Campus): 2014/15; 2015/16

## Teaching Assistant and Laboratory Support

Support for laboratory exercises in Genetics and Cytogenetics, and Genetics with Practical Exercises across multiple academic years (2013/14–2021/22) under Prof. Fabio Caradonna.

- **Genetics with Practical Exercises (9 CFU)** — B.Sc. in Biological Sciences: 2017/18, 2018/19, 2021/22
- **Human Genetics and Cytogenetics (9 CFU)** — M.Sc. in Molecular Biology and Health: 2013/14, 2014/15, 2016/17, 2017/18, 2020/21, 2024/25
- **Genetic and Biomolecular Basic Methods (6 CFU)** — B.Sc. in Biological Sciences: 2016/17
- **Marine Microbiology (6 CFU)** — M.Sc. in Marine Biology: 2021/22, 2022/23

## Thesis Supervision and Examination

- **Co-supervisor of 3 M.Sc. Theses in Molecular Biology and Health:** 2022/23, 2023/24
  - **Co-supervisor of 1 M.Sc. Thesis in Environmental Engineering:** 2020/21
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## **STUDENT TUTORING AND SUPPORT**

- Tutoring for M.Sc. and Ph.D. thesis preparation, 2023/24 and 2024/25
- Tutor for undergraduate and graduate students in Biological Sciences, Biotechnology, Natural and Environmental Sciences, and Pharmaceutical Chemistry (2015/16–2020/21)
- University Tutor for the School of Basic and Applied Sciences (2018/19) — Orientation and remedial teaching
- University Tutor for the National Plan for Scientific Degrees "Biology and Biotechnology" (2016–2017) — Methodological support for Biology courses

## **SEMINARS AND INVITED LECTURES**

- "From Cytogenetics to Cytogenomics: A Historical Overview" — Seminar Series for Biology and Biotechnology Students (1 CFU), University of Palermo (16 May 2019)
- "Enhanced Bioremediation of Chlorinated-Solvent-Contaminated Groundwater" — Online seminar, Marine Microbiology (M.Sc.) (27 Nov 2020)
- "Classical Cytogenetics: Structural Aberrations and Aneuploidy" — Co-teaching experimental lecture for Human Genetics and Cytogenetics, under the Mentors for Teaching Project (29 Nov 2019; 22 Nov 2021)

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## **AWARDS AND HONORS**

**FIDAPA-BPW Italy "Donna e Ricerca" Award** — 2 October 2021