

# Emilia Di Giovanni, PhD

## BIOLOGIST

Via Carlo Lucidi, 1, Frascati (00044), Roma

☎ (+39) 3805226910 | ✉ [emilia.digiovanni8@gmail.com](mailto:emilia.digiovanni8@gmail.com) |

🌐 : <https://www.linkedin.com/in/emiliadigiovanni/>

### Work Experience & Internships

---

**Jan.2020 – Present: QC Analyst at Menarini Biotech s.r.l., Pomezia (IT)**

- **ELISA** test for the evaluation of both purification intermediates and final bulks specific activity/productivity
- **Monitoring** of pharmaceutical water systems (DW, WFI, SW and Pure Steam) via **TOC** analysis, **conductivity** testing and membrane filtration units-based **Bioburden** testing
- **Raw materials sampling** and **FT-NIR** testing
- Use of **cryoscopic osmometer** Osmomat 3000 for measurement of osmolality

**Mar. 2019 – Oct. 2019: QC Analyst Immunology at GSK Vaccines s.r.l., Siena (IT)**

- **MAT** (Monocyte Activation Test) test for the evaluation of *Bexsero* Men. B group-vaccine **pyrogenic activity**
- **GMP-grade PBMC** isolation from healthy donors' whole blood
- Use of **LIM/GLIMS** and **SAP** software for Lab material and test results management
- Lab instruments use and calibration (pH-meter, spectrophotometer, scales) according to **GMP guidelines**
- **Lean Lab** management
- **Samples traceability** management
- **GMP training** to new QC staff
- **Management** of pharmaceutical water systems, steam and compressed air **monitoring**
- Corporate documents **translation (LSOP, DR, CAPA, CR, TR)** - part of the official **Translation Team** during **FDA inspection**

**Nov.2015 – Oct. 2018: PhD Candidate** at the *laboratory of Biochemistry and Biomaterials*, University of Rome "Tor Vergata"

**Thesis:** Slow-releasing Hydrogen Sulfide Donors: Innovative Tools for Stem Cell-based Tissue Repair and Regeneration

- **Autonomously organizing** my work on weekly basis, **designing and carrying out experiments**, reporting and discussing the results with my tutor.
- Improvement on **public-speaking** skills by giving oral presentations (in English) of my work in front of other PhD candidates as well as faculty members from my department.
- Mentoring MS and BS students, guiding them in the lab and editing their final thesis.
- **Tutoring experience** with high school students (as part of the Regione Lazio PLS program).
- Active participation in the **writing and submission** of scientific articles.

Thesis work resulted in the publication of an **article** (Di Giovanni, E., Buonvino, S., Amelio, I. and Melino, S. (2020)

*Glutathione-Allylsulfur Conjugates as Mesenchymal Stem Cells Stimulating Agents for Potential Applications in Tissue Repair*, Int J Mol Sci. 2020 Feb 28;21(5). pii: E1638. doi: 10.3390/ijms21051638).

**Oct.2013 - Jun.2015: Internship** at the laboratory of *Cancer Immunology and Immunotherapy*, Institute of Translational Pharmacology (IFT), National Research Council (CNR), Rome

**Thesis:** Engineering a CD64-Chimeric Antigen Receptor to Study the Immunological Effects of Murine CAR-T Cells in Syngeneic Models

- **Development of time-management** skills and an understanding of the importance of **teamwork/collaboration** with colleagues and other researchers. Acquisition of **lab techniques** and practice of **creative and critical thinking** in the process of successfully designing and carrying out experiments.

**Oct.2011 - Dec.2011: internship** at the *Comparative Anatomy laboratory*, University of Rome "Tor Vergata".

**Thesis:** PEG Fibrinogen Promotes Stem Cells Differentiation in Muscle Tissue

- Development of a concrete understanding of **trust** and a **sense of responsibility** by working with researchers and colleagues who fully trusted me in allowing me to practice different techniques.

## Education

---

### November 2019: Missione CRA – advanced 48h-Training Course in Clinical Research; Topics:

- Clinical experimentation Methodology and normative
- Good Clinical Practice (**GCP**)
- Good Manufacture Practice (**GMP**)
- Pharmacovigilance
- Quality and quality assurance systems
- Monitors' tasks referred to in paragraph 5.18 of Annex 1 of the Ministerial Decree July 15th 1997

### Oct. 2018: PhD in Biochemistry and Molecular Biology

UNIVERSITY OF ROME "TOR VERGATA"

### Mar.2015: MS in Human Biology

UNIVERSITY OF ROME "TOR VERGATA"

**SUMMA CUM LAUDAE**

## Skills

---

### Cell Biology

- **Cell culture**
- Human **PBMC isolation** from whole blood by Ficoll paque protocol
- Human T cells immune-magnetic isolation, culturing and stimulation
- **CFSE** and **MTT/WST** cell proliferation/viability assays
- In vitro liposome-mediated **transfection** of adherent cell lines
- **Retroviral transduction** of adherent and suspension cell lines and of human PBMCs, cell surface staining and **cytofluorimetric analysis**.

### Molecular Biology

- **RNA extraction** from murine spleen
- **RT-PCR**, classic PCR
- **Mini-prep** and **Maxi-prep** based plasmid isolation
- Plasmid and retroviral vectors **cloning** of DNA inserts by restriction enzyme digestion
- **Bacterial transformation**
- **Western blot**
- **ELISA** test

### Informatics

- Windows and OS user
- GraphPad Prism
- EnzymeX
- Machintosh CellQuest Pro
- LIMS/GLIMS
- SAP
- Documentum

## Hobbies

---

**Music:** Four years' learning of guitar; ten years' learning of piano (Attended the Conservatory of Music until Grade 5 (10 the highest)).

**Sport:** Strong passion for sports, especially tennis and jogging.

**Travelling:** Keen interest in discovering different places, cultures and people. Travelled to China, USA and many European countries so far.

**Languages:** English (self-evaluation: advanced, C1); Italian (native proficiency)

**Driving license:** B

*Emilio Di Giacomo*