



# Desiree Genovese

✉ Email address: [desiree.genovese@uniroma1.it](mailto:desiree.genovese@uniroma1.it)

📍 Home: Rome (Italy)

## WORK EXPERIENCE

---

### **Tutoring scholarship for the Medical Biotechnology degree program**

**University of Rome "La Sapienza"** [ 01/01/2025 – Current ]

City: Rome | Country: Italy

Study tutoring, exam preparation support, and orientation activities.

### **Freelance contract reserved for PhD students for Next Gen Orientation**

**University of Rome "La Sapienza"** [ 01/02/2024 – 01/07/2024 ]

City: Rome | Country: Italy

Coordination of orientation courses held in schools throughout Lazio

### **Tutoring scholarship for the Biotechnology degree program.**

**University of Rome "La Sapienza"** [ 01/02/2024 – Current ]

City: Rome | Country: Italy

Study tutoring, exam preparation support, and orientation activities.

### **Tutoring scholarship for the Medical Biotechnology degree program**

**University of Rome "La Sapienza"** [ 01/02/2023 – 31/01/2024 ]

City: Rome | Country: Italy

Study tutoring, exam preparation support, and orientation activities.

### **Freelance contract reserved for PhD students for Next Gen Orientation**

**University of Rome "La Sapienza"** [ 01/03/2023 – 31/07/2023 ]

City: Rome | Country: Italy

Coordination of orientation courses held in schools throughout Lazio

### **Collaborative Scholarship at the "Environmental Biology Library"**

**University of Rome "La Sapienza"** [ 01/01/2022 – 01/10/2022 ]

City: Rome | Country: Italy

Front office service, student reception, library services support, and book cataloging

## EDUCATION AND TRAINING

---

### **PhD Student at the Doctoral School in "Morphogenesis and Tissue Engineering," Department of Anatomical, Histological, Forensic, and Locomotor System Sciences, .**

**University of Rome "La Sapienza"** [ 01/11/2022 – Current ]

City: Rome | Country: Italy | Field(s) of study: Tissue engineering | Thesis: Characterization of molecular factors involved in the functional remodeling of a three-dimensional ex vivo construct (eX-vivo Muscle Engineered Tissue, X-MET).

-Applications to regenerative medicine and tissue response analysis to mechanical stimuli.  
-Using X-MET as a model to evaluate the efficacy of gene delivery via lipid nanoparticles.

### **Master's Degree in Medical Biotechnology, (110/110 cum laude)**

**University of Rome "La Sapienza"** [ 01/11/2020 – 25/10/2022 ]

City: Rome | Country: Italy | Field(s) of study: Tissue muscle Engineering | Final grade: 110 cum laude

### **Internship at "Antonio Musarò Laboratory," Department of Anatomical, Histological, Forensic, and Locomotor System Sciences,**

**University of Rome "La Sapienza"** [ 01/02/2021 – 31/10/2022 ]

City: Rome | Country: Italy

### **Bachelor's Degree in Biotechnology, awarded with a grade of 110/110 cum laude on 15/07/2020**

**University of Rome "La Sapienza"** [ 01/10/2017 – 15/07/2020 ]

City: Rome | Country: Italy | Field(s) of study: Immunology | Final grade: 110 cum laude | Thesis: The role of the Mast Cells in the CRC

### **Classical High School Diploma, awarded with a grade of 100/100 cum laude**

**Liceo classico Olivetti-Panetta** [ 2012 – 2017 ]

City: Locri | Country: Italy

## **LANGUAGE SKILLS**

---

**Mother tongue(s):** Italian

**Other language(s):**

**English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## **HONOURS AND AWARDS**

---

[ 2017 ] MIUR

**Inclusion in the National Register of Excellence, year 2016/2017**

[ 2022 ] DiscoLazio

**Graduation Award - 2022**

[ 16/05/2024 ] University of Rome "La Sapienza"

**Certificate of Excellent Graduate, awarded by the University of Rome "La Sapienza"**

[ 16/10/2024 ] University of Rome "La Sapienza"

**Research Start-Up ("Avvio alla ricerca") 2024**

## **PUBLICATIONS**

---

[2023]

• Cosentino M, Nicoletti C, Valenti V, Schirone L, Di Nonno F, Apa L, Zouhair M, Genovese D, Madaro L, Dinarelli S, Rossi M, Del Prete Z, Sciarretta S, Frati G, Rizzuto E, Musarò A. Remodeled eX vivo muscle engineered tissue improves heart function after chronic myocardial ischemia. Sci Rep. 2023 Jun 26;13(1): 10370. doi: 10.1038/s41598-023-37553-8. PMID: 37365262; PMCID: PMC10293177.

[2023]

• Cosentino M, Forcina L, Zouhair M, Apa L, Genovese D, Boccia C, Rizzuto E, Musarò A. Modelling three-dimensional cancer-associated cachexia and therapy: The molecular basis and therapeutic potential of interleukin-6 transsignalling blockade. J Cachexia Sarcopenia Muscle. 2023 Sep 20. doi: 10.1002/jcsm.13329. Epub ahead of print. PMID: 37727078.

[2023]

• **Characterization of the molecular players involved in the functional remodelling of the eX-vivo muscle engineered tissue (X-MET) – 20th IIM MEETING, Assisi 12-15 Ottobre 2023**

Poster presentation

[2023]

• **Development of efficient gene delivery systems for the treatment of Duchenne muscular dystrophy-20th IIM MEETING, Assisi 12-15 Ottobre 2023**

Conference Poster

[2024]

• **3D skeletal muscle construct recapitulating Duchenne Muscular Dystrophy disease progression in vitro- IIM MEETING, Assisi 04-07 Settembre 2024**

Conference poster

[2024]

• **Identification of Molecular Factors Involved in the Functional Remodeling of Ex-Vivo Engineered Muscle Tissue (X-MET) – EMBO 12 – 17 October 2024 | Catania, Sicily, Italy**

Poster presentation

## CONFERENCES AND SEMINARS

---

[ 12/10/2024 – 17/10/2024 ] Catania, Sicily, Italy

**EMBO Conference**

[ 12/10/2023 – 15/10/2023 ] Assisi, Italy

**20th IIM MEETING**

[ 12/10/2023 – 15/10/2023 ] Assisi, Italy

**High-training Course in Advanced Myology Update**

[ 01/02/2024 – 07/07/2024 ] Madrid

**Experimental Models in Molecular Biomedicine UAM- Universidad Autónoma de Madrid**

BIP CIVIS course

[ 2023 ] Rome

**Training Course on Preclinical Experimentation and Animal Welfare**

[ 30/09/2024 ]

**BeMM Symposium 2024**

[ 18/04/2024 ] Napoli, Italy

**New Frontiers in cancer and healthy aging**

## VOLUNTEERING

---

[ 2017 – Current ] Marina di Gioiosa

**"Proloco per Marina di Gioiosa" Member**

## DIGITAL SKILLS

---

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / Google meet, Microsoft powerpoint / Graphical Editing

## ORGANISATIONAL SKILLS

---

**High organizational capabilities developed through university education and work experience**

## TECHNICAL SKILLS:

---

### Molecular Biology and Tissue Engineering

Experience with Primary Cultures and Animal Models

3D Cell Cultures

Histological Analysis Techniques (Histological Staining, Tissue Sectioning using Cryostat)

Nucleic Acid Analysis (Nucleic Acid Extraction, Real-Time PCR, Reverse Transcription, Quantification using Nanodrop)

Protein Analysis (Western Blot)

Immunohistochemistry and Immunofluorescence

Optical, Inverted, and Confocal Microscopy

Immunoenzymatic Assays (ELISA)

Statistical Analysis

Mechanical Characterization of Biomaterials

Gene Delivery using Lipid Nanoparticles

Transfection Techniques

Toxicity and Proliferation Assays (BCA, XTT, MTT)

## DRIVING LICENCE

---

**Driving Licence:** B