



## Giulia Ferrari

**Nationality:** Italian **Date of birth:** 01/04/2000

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### EDUCATION AND TRAINING

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#### PhD student in Molecular and Cellular Biology

*Università degli Studi "La Statale" di Milano* [ 01/11/2024 – Current ]

City: Milan | Country: Italy

I am carrying out my PhD program in the laboratory of Prof.ssa Graziella Messina at the Department of Biosciences of the University of Milan, where I have the opportunity to investigate the role of the transcription factor Nfix in cancer and muscular dystrophies.

My main interest is on Nfix role in cancer cachexia, and on developing a possible therapeutic strategy.

#### Master Degree in Biology applied to Biomedical Research

*Università degli Studi "La Statale" di Milano* [ 26/09/2022 – 25/10/2024 ]

City: Milano | Country: Italy | Final grade: 110/110 cum laude | Thesis: STUDY OF NFIX INHIBITION THROUGH A NOVEL FLUORINATED COMPOUND IN EX-VIVO MODELS: PAVING THE WAY FOR A NEW CONSERVATIVE TREATMENT IN MUSCULAR DYSTROPHIES

This degree program has given me the opportunity to carry out a full year of internship, thanks to which I am acquiring numerous knowledge both in the practical and theoretical field. I am performing my tesis internship in the laboratory of Prof.ssa Graziella Messina at the Department of Biosciences of the University of Milan. The aim of the laboratory is to find conservative therapies for muscular dystrophy, in particular by inhibiting the expression of the Nfix transcription factor.

Techniques acquired:

- Isolation and maintenance of cultured cell types from wild-type mouse models or genetically modified mouse models (C2C12, stabilized mouse myoblasts, mouse primary cultures such as satellite cells, fibroblasts, macrophages, embryonic myoblasts, fetal myoblasts, but also primary human myoblasts)
- Cell cultures
- RNA extraction, retrotranscription and RTqPCR
- Protein extraction from tissue or cell cultures and Western Blot
- Immunofluorescence
- Cell proliferation assays (Edu staining)
- Genomic DNA extraction, PCR amplification and agarose gel run
- Purification of PCR product through PCR Cleanup
- PCR product validation through Sanger sequencing
- Functional tests on macrophages
- CytoTox96 reagent toxicity test
- Techniques of genotyping
- Design of specific primers for my gene of interest, followed by annealing temperature analysis
- Histological staining (Hematoxylin-eosin and Trichrome)
- Isolation of plasmid DNA from bacterial culture through Mini- and Maxi-prep
- Analysis of plasmid DNA through digestion with restriction enzymes
- Transfection with Lipofectamin 3000
- Immunoprecipitation

## Bachelor Degree in Biological Sciences

*Università degli Studi di Modena e Reggio Emilia* [ 20/09/2019 – 19/07/2022 ]

City: Modena | Country: Italy | Final grade: 109/110 | Thesis: COMPARISON OF SUCCESS RATES AFTER TRANSFER OF "FRESH" OR CRYOPRESERVED HUMAN EMBRYOS

During the period of curricular internship at the private clinic "Centro Palmer" in Reggio Emilia, I learned specific techniques in the field of assisted fertilization, that is what their laboratory deals with:

- Spermogram
- Egg collection
- Gamete conservation
- Culturing of gametes
- Insemination by IVF or ICSI
- Preparation of the embryo for transfer to the uterus
- Freezing and thawing of gametes

## Linguistic High School

[ 15/09/2014 – 30/06/2019 ]

City: Reggio Emilia | Country: Italy | Final grade: 92/100

## WORK EXPERIENCE

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### PhD student

[ 01/11/2024 – Current ]

City: Milano | Country: Italy

Carrying out my PhD program in the laboratory of Prof.ssa Graziella Messina within the Department of Biosciences of the University of Milan.

### Intern

[ 02/10/2023 – 30/09/2024 ]

City: Milano | Country: Italy

Carrying out my master degree's curricular internship at the laboratory of Prof.ssa Graziella Messina within the Department of Biosciences of the University of Milan.

### Intern

[ 02/2022 – 04/2022 ]

City: Reggio Emilia | Country: Italy

Carrying out the bachelor degree's curricular internship at the private polyclinics "Centro Palmer" of Reggio Emilia.

### Secretary

*AVIS Guastalla* [ 07/2018 – 08/2018 ]

City: Guastalla (RE) | Country: Italy

Assignment within the "alternanza scuola-lavoro" programme.

### Help in carrying out homeworks

City: Guastalla (RE) | Country: Italy

## CERTIFICAZIONI

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[ 15/02/2024 ]

### **LEGISLAZIONE NAZIONALE ED ETICA LIVELLO 1, MODULI 1 E 2, DM 5 AGOSTO 2021 - 1<sup>a</sup> Edizione**

Theoretical course provided online by Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna.

[ 15/02/2024 ]

### **BIOLOGIA E GESTIONE DEGLI ANIMALI DA LABORATORIO, MODULI 3.1, 4, 5, 6.1, 7. DM 5 AGOSTO 2021 RODITORI E LAGOMORFI - 1<sup>a</sup> Edizione**

Theoretical course provided online by Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna.

[ 19/04/2024 ]

### **MODULI PRATICI 3.2, 6.2 e 8 SPECIE TOPO**

From 15/10/2024 I am enabled to work with mouse models.

### **First Certificate in English Level B2**

Certification issued on 27/04/2019.

### **Certificazione livello B2 di lingua spagnola**

Certification issued on 17/07/2018.

### **Goethe-Zertifikat B2**

Certification issued on 12/06/2019.

## PUBLICATIONS

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### **"Evaluating a Novel Fluorinated Compound for Nfix Inhibition in Muscular Dystrophies" Raffaele Epis, Giulia Ferrari, Giorgia Careccia, Chiara Bonfanti, Gabriele Rovetta, Louise Gourlay, Marco Nardini, Marina Veronesi, Tiziano Bandiera, Stefania Girotto and Graziella Messina.**

I was part of the authors of a oral presentation presented at EMBO workshop "Skeletal Muscle Development, Metabolism and Repair during Homeostasis and Disease" between October 12th and 17th 2024 in Catania, Italy.

## LANGUAGE SKILLS

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**Mother tongue(s):** Italiano

**Other language(s):**

### **Inglese**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

### **Spagnolo**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

### **Tedesco**

**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*

## DIGITAL SKILLS

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Buon utilizzo di MS – Office: Word, Excel, Power Point, Outlook etc. / Software di analisi d'immagine ImageJ / Conoscenza base di GraphPad Prism / Buona padronanza del software gratuito di trasferimento Ftp(Filezilla) / Uso dei principali database scientifici (NCBI PubMed, Nucleotide BLAST)

## HONOURS AND AWARDS

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[ 05/12/2023 ] Università degli Studi di Milano

**Borsa di Studio di Ateneo**

[ 15/02/2024 ] Università degli studi di Milano

**Borsa di Studio in memoria di Piera Santambrogio**

## VOLUNTEERING

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[ 2013 - 2018 ]

**Animator at the parrish summer camp**

[ 2013 - Current ]

**Waitress at the parish village festival**

[ 09/2018 - Current ]

**AVIS donor**