

# Noemi Zollo

PhD student

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**Noemi Zollo - 26/04/1995**

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## Overview

Bachelor's Degree in Biotechnologies (Biomedical curriculum).

Master's Degree in Molecular Biology & Génétique Moléculaire - International Double Degree Program Università degli Studi di Padova (Italia) & Université de Paris (France).

Currently in the first year of PhD at Collège de France (Paris, France) in the Terret-Verlhac team "Oocyte Mechanics and Morphogenesis".

PhD fellowship financed by Sorbonne Université - École Doctorale Complexité du Vivants, starting from October 2021.

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## Laboratory experience

### Thesis Internship

JANUARY 2021 - JUNE 2021, COLLÈGE DE FRANCE (PARIS, FRANCE)

Internship in the Terret-Verlhac team "Oocyte mechanics and morphogenesis". Project title: "Dynamics of Ribonucleoprotein Particles reveal a cytoskeletal switch during mouse oocyte growth", supervised by Maria Almonacid.

#### Acquired techniques:

- Dissection of mouse ovaries and oocytes collection;
- Single oocytes manipulation with glass capillary pipette under confocal microscope;
- Treatment with drugs inhibiting specific cytoskeletal elements;
- *In Vitro* Transcription (purification with Qiagen Kit; T3 mMACHINE kit, ThermoFisher);
- NanoDrop 2000 quantification (ThermoFisher);
- Beginner use of microinjector (Eppendorf Femtojet Microinjector);
- Spinning Disk Image Acquisition (Leica DMI6000B microscope; Yokogawa SCU-X1-M1 spinning disk);
- Data collection using Metamorph software (Universal Imaging, version 7.7.9.0);
- Image analysis with Fiji (TrackMate and TraJ Classifier plugins).

### Elective Traineeship

OCTOBER 2018 - MARCH 2019, UNIVERSITÀ DEGLI STUDI DEL PIEMONTE ORIENTALE (NOVARA, ITALY)

Additional apprenticeship to extend the Bachelor's Thesis project at

Biochemistry and Clinical Molecular Biology Department.

Research Laboratory activity for the Translational Medicine Department (DIMET) and the Health Sciences Department (DISS), supervised by professor Daniela Capello. This apprenticeship was not mandatory, but I chose to go further in the project as a personal initiative, before my Bachelor graduation (March 2019).

Acquired techniques:

- Cell culture and *in vitro* maintenance of both stem and differentiated cancer cell lines derived from primary colorectal tumor and glioblastoma multiforme;
- Viability and cytotoxicity *in vitro* assays with experimental drugs;
- Immune-chemical procedure “Western Blotting” through electrophoresis on Polyacrylamide gel and electroblotting transfer;
- Apoptosis assays with Annexin V and Propidium Iodide;
- Cell cycle analysis after RNase treatment and Propidium Iodide staining;
- Data acquisition using tools and techniques of spectrophotometry (VICTOR MULTilabel Plate Reader, PerkinElmer), chemiluminescence (ChemiDOC Imaging Systems, Life Science Research, Bio-Rad) and flow cytometry (Attune NxT Flow Cytometer, ThermoFisher Scientific; BD FACScalibur Flow Cytometer, BD Biosciences);
- Data analysis with Microsoft Excel spreadsheet, BD FACStation Software and Graphpad Prism Software.

**Thesis Internship**

MAY 2018 - SEPTEMBER 2019, UNIVERSITÀ DEGLI STUDI DEL PIEMONTE ORIENTALE (NOVARA, ITALY)

Thesis internship and apprenticeship at Biochemistry and Clinical and Molecular Biology Department. Project title: “Effect of lysine-specific histone demethylase 1A (KDM1A) inhibition in colorectal cancer stem cells”, supervised by professor Daniela Capello.

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**Higher Education**

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**Université de Paris / Magistère Européen de Génétique (2nd year)**

SEPTEMBER 2020 - JUNE 2021, PARIS (FRANCE)

I was awarded a fellowship for the Double Degree Program in Paris, so I attended the second year of Master’s Degree at Université de Paris.

I graduated in Paris in June 2021 with a final mark of 14.60/20.

Thesis title “Dynamics of Ribonucleoprotein Particles reveal a cytoskeletal switch during mouse oocyte growth”, supervised by doctor Maria Almonacid.

**Università degli Studi di Padova / Master's Degree in Molecular Biology (1st year)**

SEPTEMBER 2019 - AUGUST 2020, PADOVA (ITALY)

First year of Master's Degree in Molecular Biology.

I graduated in Padova in July 2021 with a final mark of 105/110.

Thesis title "Dynamics of Ribonucleoprotein Particles in Late Mouse Oogenesis", supervised by doctor Maria Almonacid and professor Chiara Rampazzo.

**Università degli Studi del Piemonte Orientale / Bachelor's Degree in Biotechnologies**

OCTOBER 2015 - MARCH 2019, NOVARA (ITALY)

Degree in Biotechnologies, Biomedical curriculum; final mark 95/110.

Thesis title "Effect of lysine-specific histone demethylase 1A (KDM1A) inhibition in colorectal cancer stem cells", supervised by professor Daniela Capello.

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**Personal Skills**

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Italian mother tongue.

English level: C1 written and spoken (Cambridge Assessment English Certification, grade B, obtained September 2019).

Spanish level: B1/B2 written and spoken.

French level: A2/B1 spoken and comprehension.

Good basic computer skills (social media, Microsoft Office tools, digital and email communication); basic Python programming, bioinformatic analysis and online databases navigation skills.

Course for First-Aid Officer in companies at risk level B-C with FRS Consulting Formation; certificate obtained in February 2020;

Course for Fire-Prevention Officer Medium Risk (with practical test) with FRS Consulting Formation; certificate obtained in December 2019;

Automated External Defibrillator use and BLS Patent (BLS course for adult, child and toddler and defibrillation with AED device, Salvamento Agency n°104013) since 2018;

Lifeguard Patent FIN (P-International Pool Lifeguard, patent n°ASB-16446) since 2016;

Swimming Instructor Patent CSNAN, ASI association (sports-promotion organization recognized by CONI) since 2014.

Category B driving license since 2014.