



# ANASTASIA SHIHABI

PhD Student (Terret/Verlhac Team, CIRB) (since October 2023)

Born 14/02/2000

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## OVERVIEW

2nd year PhD student in the Terret/Verlhac Team at the CIRB at Collège de France (Paris). PhD fellowship financed by Sorbonne Université- École Doctorale Complexité du Vivant (ED 515).

Focus on understanding the consequences of excessive cortical tension on oocyte development

## PROFESSIONAL EXPERIENCE

**PhD and Master 2 internship - Oocyte mechanics and Morphogenesis at Collège de France (Paris) (Since October 2023) - Marie-Emilie TERRET & Marie-Hélène VERLHAC) - Marie-Emilie TERRET & Marie-Hélène VERLHAC**

Tutored by Marie-Emilie Terret ([marie-emilie.terret@college-de-france.fr](mailto:marie-emilie.terret@college-de-france.fr))

**Consequences of excessive cortical tension in mammalian oocytes**

- Oocyte collection from mice ovaries and culture, microinjection of RNAs & oil droplets, immunofluorescence, confocal spinning disk microscopy, image analysis using ImageJ and Metamorph, biophysical approaches, analysis of human oocyte maturation films ...

**Doctoral Mission - Scientific Mediation - Palais de la Découverte (Service Sciences de la Vie) (Since October 2024)**

35 days/year to scientific mediation with the Palais de la Découverte: Animation of sessions on various vulgarised topics (DNA, Insectes ...) to general public and school groups; Elaboration of future animations ...

**PhD representative in Doctoral School Complexité du Vivant (since April 2024)**

Organisation of the Welcome Day for 1st year PhD students every year; Organisation of the yearly Doctoral School Day (JBE): selection and organisation of talk, posters and invited speakers throughout several days...

**Representative PhD and Post-Doc at the CIRB (since October 2024)**

Participation in the CIRB council meetings to raise the issues mentioned by PhD and PostDocs...

**Master 1 Internship - Cell cycle regulation lab at Gulbenkian institute of science (Portugal - Lisbon) (Feb - July 2022) - Monica BETTENCOURT-DIAS**

Tutored by Pilar Ramos ([pramos@igc.gulbenkian.pt](mailto:pramos@igc.gulbenkian.pt)) for **Cilia Maintenance Project**

- Cell culture of RPE-1 human cells, immunofluorescence, microscopy with Apotome and Spinning disk, use of drugs (BI2536) and RNAi on cells, *Drosophila* genetic crosses to express RNAi by the UAS/Gal4 system and cryosections of *Drosophila* heads

**Bachelor's Internship- Laboratory MOM at IBPS (Paris) (April - June 2021) - Katja WASSMAN**

Tutored by Eulalie Buffin ([eulalie.buffin@sorbonne-universite.fr](mailto:eulalie.buffin@sorbonne-universite.fr))

**Study of the stability of the meiotic spindle in Meiosis II**

- Oocytes collection from mice ovaries and culture, immunofluorescence at different stages to analyze spindle stability in different experimental conditions, image analysis using ImageJ.

## EDUCATION AND DIPLOMAS

**International Master in Molecular and Cellular Biology - Specialization in Stem Cell and Developmental Biology - Sorbonne Université (Paris) - September 2021 - July 2023 (Mention Très Bien)**

**3 weeks lab course** (September 2021 + September 2022):

**Genetics:** creation of genome library and functional screen for immunity; **Cell biology:** culture of *Xenopus* oocytes and CHO immortalized cells, cell synchronisation, western blot, immunofluorescence; **Biochemistry:** *in silico* cloning, purification of recombinant protein; **Developmental biology:** *C. elegans* (fate of paternal components), Zebrafish, *Xenopus* (embryonic axes, gastrulation *in vitro*), Chicken, *Drosophila* (transgenic embryo analysis), Mouse (embryo culture, organoids, organ culture, transgenic embryos)

**Theoretical courses** (October 2021 - January 2022): **Cell Biology; Developmental and Stem Cell biology; Genetics; Molecular Biology and Biochemistry; Immunology**

**Erasmus+ Programme exchange: Lisbon, Portugal (Faculty of Sciences of the University of Lisbon) 30 ECTS** (Jan 2022 - July 2022): Internship Cell Cycle Regulation Lab (Monica Bettencourt-Dias) (*cf professional experience*)

**Institut Curie Developmental Biology Seminars** (October 2022):

Stem cells, systems biology, development of nervous system, organogenesis, cell migration, evo-devo, early development, growth regulation, patterning, cell mechanisms during development

**Transreg Course at Roscoff** (December 2022): Study of the translational regulation of the cell cycle using Sea Urchin model (microinjection, gametes collection, cell cycle inhibitors...)

**Bachelor of Life Sciences - Sorbonne Université (Paris) - September 2018-June 2021 (Mention Bien)**

**Scientific baccalaureate with Option Internationale du Baccalauréat (OIB) - Lycée International de St Germain en Laye - July 2018 - (Mention Bien)**

## SKILLS

- English (maternal language) - IGCSEs English First Language  
- Bilingual in French

- Microsoft office pack  
- Virtual illustrations (Illustrator, Procreate...)  
- Use of scientific programs (ex: Visual Molecular Dynamics (VMD), Pymol, ImageJ...); ImageJ Macros and plug-ins for image analysis  
- Quantifying softwares: Prism, ImageJ, IMARIS...  
- Microscope training: Zeiss Apotome; WI Zeiss; Leica DMI6000B  
- ApE software (*in silico* cloning)

## TRAININGS & SEMINARS

**Forces Across Scales** (Porto, Portugal; March 2024)

- Several conferences on interdisciplinary subjects combining biology, physics and bio-mechanics

**From Cell to Organism** (Paris ; October 2024)

- Conferences combining cell and developmental biology  
- Presented a poster at one of the poster sessions

**Animal Experimentation Training and Certification**

(June 2023, Sorbonne Université, Paris)  
- Courses on ethics of animal experimentation

**Initiation de Python programming** (October 2023 - Decembre 2023)

- Initiation to the basics of Python: strings, array, variable, objects etc...

## NON ACADEMIC WORK

**Student job with languages department at Sorbonne Université - (September 2021 - December 2022)**

- Participation in opening and running the language space set up for students to train and inform them concerning various languages (average of 6 hours/week)  
- Lead conversation classes for students (level intermediate and +; once a week)

**Sorbonne Sciences Debate Club (2018-2022)**

- Participation in debates since 2018, participation in national inter-university debate tournament organised by the French Debating Society (FDA)  
- Elected Secretary General (2019 - 2020): responsible for organizing debates/events between different Universities and communication between Sorbonne Sciences Debate Club (SSDC) and French Debating Association (FDA)