

Solène COTTIS

Scientist in Virology, PhD

SUMMARY

My attraction for science, infectiology and public health motivates me to pursue a career in medical biology and translational research. I have a solid experience in molecular and cellular biology with a specialization in virology coupled with more than 4 years of experiences in research laboratories. Now, I am excited to take up new challenges and contribute to the advancement of science and healthcare by managing medical project.

AREA OF EXPERTISE

- Bibliographic synthesis
- Oral communication (meetings, symposium, conferences)
- Data analysis
- Project management
- Writing communication (thesis, scientific review and articles)
- Data sharing
- Funding reports and research
- Knowledge transfer

SKILLS

- Team work
- Autonomous
- Rigueur
- Persistence
- Creativity
- Adaptability
- Dynamism
- Motivation
- Hard-working
- Curiosity
- Diplomaty
- Sociability

EDUCATION

PhD in Virology and Entomology

Expertise in Arbovirology and Medical Entomology
Sorbonne University and Institut Pasteur
Paris | 2022

Msc in Molecular and Cellular Biology

Major in Microbiology - Fundamental Virology
Sorbonne University
Paris | 2019 | With honors

Bsc in Molecular and Cellular Biology

Aix-Marseille University, Luminy
Marseille | 2017 | With honors

CERTIFICATES

- Authorization to do experiments in laboratory of bio-safety level 3 (BSL3)
- Authorization to conceive procedures on rodent and lagomorphs (R-75-Institut Pasteur-F1-14)

LANGUAGE

French Native
English level C1

PERSONAL INTERESTS

Rock climbing, Juggling, Cooking, Acrylic painting, Scientific reading (Nature subscription)

CONTACTS

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Linkledin. <https://www.linkedin.com/in/solene-cottis-0322b4180>

Professional experiences

JUNIOR RESEARCHER - PhD CANDIDATE

Institut Pasteur, Paris | Oct.2019 - Nov.2022

Analyzed the role of G3BP/Rasputin proteins in vectorial specificity
>> Discovered a new function of G3BP/Rasputin in immunity regulation
>> Handled the project follow-up and scientific report
>> Strengthened national and international collaborations
>> Operated confocal microscopy
>> Oral presentations, scientific review published and scientific article submitted

RESEARCH ASSISTANT - MASTER 2

Institut Cochin, Paris | Dec.2018 - Jun.2019

Discovered surface proteins involved in HIV-1 transmission

RESEARCH ASSISTANT - MASTER 1

DKFZ Institute, Heidelberg | Jun.2018 - Aug.2018

Identified new MCMV-epitopes for immunotherapy by antigens-armed antibodies (AgAbs)

RESEARCH ASSISTANT - MASTER 1

Institut Pasteur, Paris | Feb.2018 - May.2018

Improved the biochemical profile of proteins belonging to the agent of the tuberculosis

RESEARCH ASSISTANT - UNDERGRADUATE

AFMB, Marseille | Jun. 2016

Developed a protein-interaction test for the replication complex of the Nipah virus

Qualifications

Cellular and Molecular Biology: Cell culture, Molecular cloning, Viral production, Immunofluorescence, Transfection, DNA constructions

Work in confined spaces: BioSafety level-2 and -3, animal facilities and Arthropod level 3 insectaries

Managing project and data analysis: Follow-up on project, resolution of obstacles, analysis of set of data

Animal experimentation (project designer level):

- Mice: Anesthesia, Infection by intraperitoneal injection, Blood collection, Euthanasia
- Mosquitoes: Oral infection, Forced salivation, Dissection

Biological tools and software: BLAST, SnapGene, GraphPad Prism, EndNote, Zotero,

Scientific articles

Scientific review - First author - <https://doi.org/10.3390/v15030589>

Scientific paper - First author - <https://doi.org/10.1101/2022.11.23.517724>

Volunteer work

Tutoring Msc Students in Virology for oral exam - Institut Pasteur | 2021
SAWA association (cooking)
ACLAF association