

Thomas Jet

EDUCATION

2017-2020 PhD, University Paris Descartes

Subject : *Multiplex detection of miRNAs for early cancer diagnosis*

Molecular Biology, microfluidics, oncology

Supervisor : Dr Valérie TALY, TRAM group (UMRS 1147), Paris Descartes University

Collaboration with Dr Yannick RONDELEZ, Gulliver Lab (UMR 7083), ESPCI Paris

2016-2017 Paris 7 University and Pasteur Institute, Paris, France

Cellular Biology and Therapeutic Targets Master of Science. Major: Proteins Biochemistry and Engineering.

2013-2017 ESPCI Paris, Paris, France

Graduate engineering school of physics, chemistry and biology.

Major: Biotechnologies. High level courses in biophysics, cellular and molecular biology, synthetic biology.

-Master level Diplôme d'Ingénieur ESPCI Paris, obtained in September 2016.

-Advanced Master of Science and Technology, obtained in September 2017.

2011-2013 Lycée Chateaubriand, Rennes, France

Two years in prep classes, selective, intensive, high-level preparation in physics, chemistry and mathematics for the nationwide competitive entrance exams to Grandes Ecoles.

Majors: Physics and Chemistry

LABORATORY INTERNSHIPS

2017 CEA, Saclay, France

Five-month research internship in molecular and microbiology.

Supervisor: Michel B. Toledano

Subject: *H₂S-induced resistance to oxidative stress in yeasts.*

Gene deletion, cloning, oxidative stress response measurements.

2016 Konstanz University, Germany

Three-month research internship, supervised by Prof. Dr. Georg Maret.

Subject: *Synthesis of monodisperse TiO₂ nanospheres for Anderson localization of light.*

Synthesis and analysis of TiO₂ nanospheres with a narrow size distribution.

2015 Aérospatiale Batteries, Bourges, France

Six-month Research and Development internship, in a company which makes batteries for spacecraft and defence.

Subject: *Phase-change materials for thermal management in thermal batteries.*

Design and characterization of novel phase-change based heat powders, increasing duration and performances of batteries.

2014 SIMM laboratory, ESPCI Paris, France

One-month research internship, supervised by Dr Matteo Ciccotti.

Subject: *Rheological dependence of crack energy during adhesives peeling.*

Mechanical measurements and computational analysis using Matlab.

Co-author, "Rate-dependant elastic hysteresis during the peeling of pressure- sensitive adhesives", *Soft Matter*, **2015**, 11, 3480.