



# OPEN TO WORK

## Loïc

### ANGRAND

Ph.D - Life and health sciences - Neurosciences

## MY PROFIL SUMMARY

My image skills



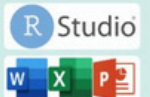
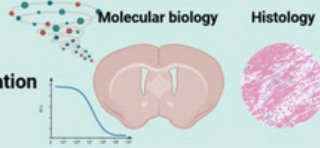
**Project management**  
**Interdisciplinary collaboration**  
**Cross-functional management :**  
o Technical training  
o Skills transfer

**Leadership, Mentorship**  
**Solution-oriented**



**Level I and II animal experimentation**  
**Basis for experimental surgery**  
**Animal Behavior**

**Crafted innovative methods**  
New protocol design, development,  
quality control and validation



**Data analysis**  
**Optimization**  
**Writing reports**  
**Scientific publications**



**Communication**



**Ph.D**

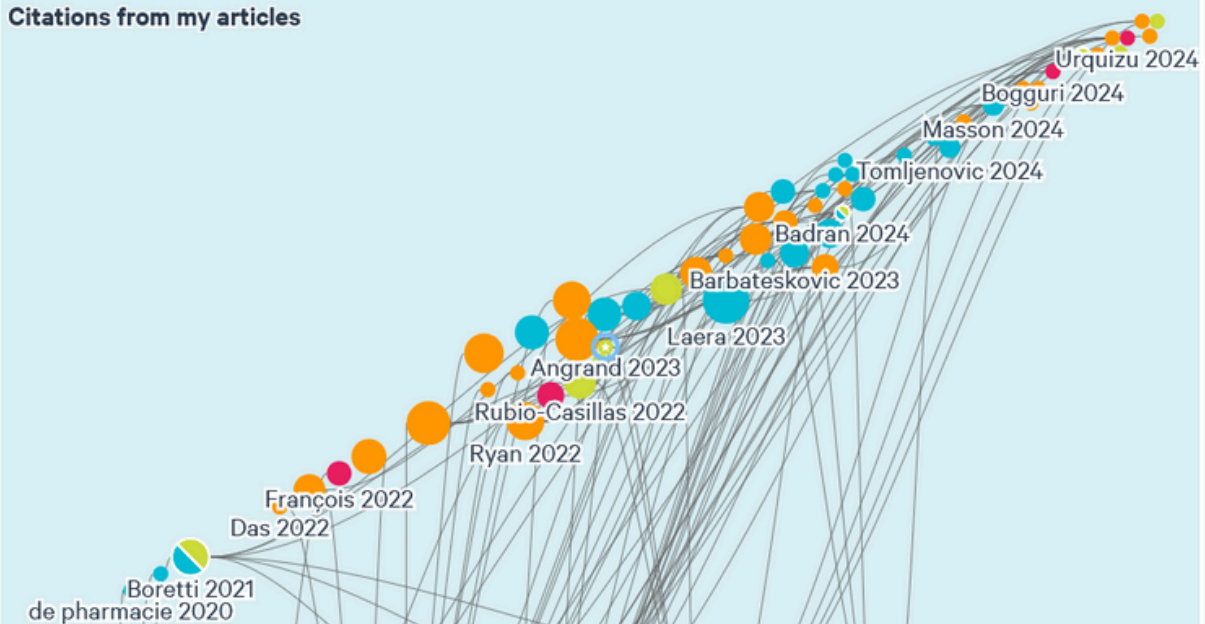
**Rapid learning**  
**Innovative spirit**  
**Critical and analytical thinking**  
**Ability to solve complex problems**



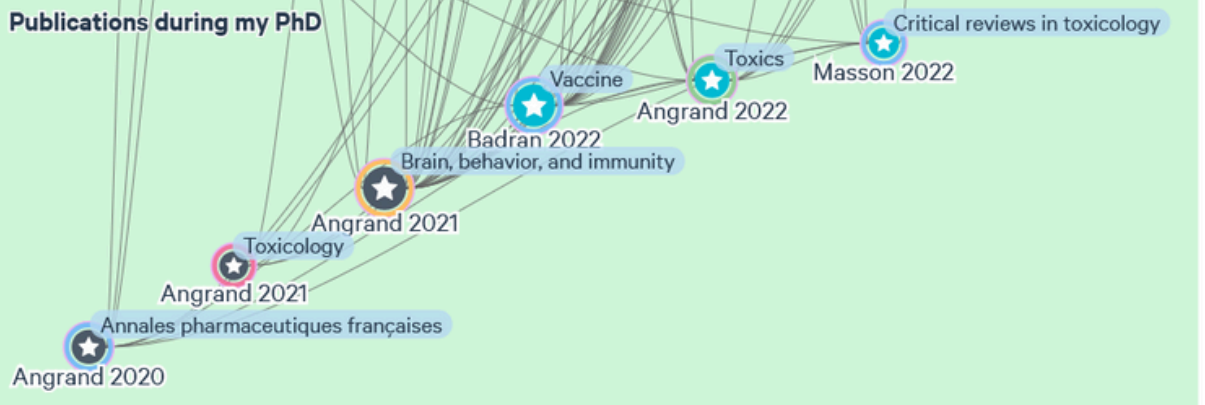
**Effective management of priorities**  
**Ability to work independently and as part of a team**  
**Adaptability to changing environments**  
**Initiative**

## MY PHD RESEARCH

### Citations from my articles



### Publications during my PhD





## CIR JEUNE DOCTEUR

Eligible

## LANGUAGE

French - Native

English - Fluent

## SOFT SKILLS

- Positive communication
- Rapid learning
- Solution-oriented
- Leadership
- Mentorship
- Hardworking
- Innovative spirit
- Flexible

## CERTIFICATES

- Level I and II **animal experimentation**
- Basis for experimental surgery
- Up-to-date training

## HARD SKILLS

### Computer:

- Word, Excell, PowerPoint
- Zotero / Litmaps

### Biostatistics:

- R/RStudio
- Graphad Prism

### Animal experimentation:

- Drafting of APAFIS project authorization applications
- GMO mice strain management: amplification, genetic control and reproduction / Genotyping
- Characterization of murine strains and behavioral studies: sensorimotor development, ultrasonic vocalizations, social interaction, actimetry, nesting, and tracking (O-maze, open field, ...).
- Gas/IP anesthesia, IM/IP injection, intracardiac perfusion, biopsies, dissection, tissue sampling

# Loïc ANGRAND

Ph.D - Life and health sciences - Neurosciences

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🚗 Permis B



## PROFESSIONAL PROFILE

**Areas of expertise: biology, neuroscience, toxicology, immunology & translational research**

In my previous experiences, I have developed strong problem-solving skills and crafted innovative methods applied to biomedical research.

I am looking for a new professional challenge to **leverage my skills and develop new ones.**

## PROFESSIONAL EXPERIENCE

03/2024 - 07/2024

### Post-doc

**Institut du Fer à moulin - INSERM | PARIS**

Paris, Mars 2024 - Juillet 2024

Study of **peripheral and central inflammatory** effects of repeated **isoflurane** anesthesia in **young juvenile mice** and genetic interaction:

- **Management of students** of various levels.
- Collaboration with platforms.

10/2019 - 12/2023

### Ph.D student

**Institut national de la santé et de la recherche médicale - INSERM | PARIS**

1 - **Translational project in the field of immunopsychiatry:** Evaluation of a mitochondrial **blood biomarker** in cohorts of psychiatric patients.

2 - **Designed and implemented** a GxE interaction study on a **murine genetic model** using **pro-inflammatory pharmacological compounds:**

- **Developed** new protocols, ensuring quality control and validation.
- **Planned** protocols and managed cross-functional collaborations.
- **Supervised** two Master's trainees for six months each: provided technical training, facilitated skill transfer, and promoted gradual autonomy.
- **Physico-chemical control of metallic (Al) colloids** (dynamic light scattering and zetametry) and **ICP-MS sampling** for assays.

09/2018 & 01/2019 - 06/2019

### Intern

**Institut de recherche biomédicale des armées - IRBA | BRETIGNY-SUR-ORGE**

- Short- and long-term neurotoxicological effects of acute exposure to a low or moderate dose of a **sarin analog** in mice.
- Biochemistry (IChE enzyme activity assay), microscopy (morphometry and fluorescence), EEG (implementation, recording and analysis).

05/2018 - 06/2018

### Intern

**Institut Mondor de Recherche Biomédicale - IMRB/EnvA - INSERM | PARIS**

- Assessment of **neurodevelopmental toxicity** in neonatal and juvenile mice following Hydroxychloroquine treatment.
- Biochemistry (WB) and behavior.

## Rodent behavior software:

- ANY-maze
- Behavioral Observation Research Interactive Software
- Avisoft Bioacoustics software SASLab pro & LMT-USV-Toolbox

## Bench:

- Extraction and assay of biological macromolecules (DNA, RNA, Proteins)
- Spectrometry: UV-visible & Fluorescence
- Luminex in simplex or multiplex
- PCR design, Classic PCR, qPCR, dPCR, OligoArchitect, Benchling
- Histology: Cryostat, Vibratome, Microtome
- Microscopy: Light & Fluorescence
- Particules characterization: DLS, Zetametry
- ICP-MS sampling

## TEACHING

Biocellular lectures for bachelor students (Université Paris-Est Créteil)

## PH.D SUPERVISORS

### PROFESSIONAL REFERENCES

guillemette.crepeaux@vet-alfort.fr  
marika.nosten-bertrand@inserm.fr

## INTERESTS

- Travel
- Gastronomy

## EDUCATION

2019 - 2023

**Université Paris-Est Créteil** | CRETEIL

Ph.D Life and health sciences - Neurosciences

**Investigating gene-environment interactions in ASD: early exposure of the Irgm1 KO murine line to pro-inflammatory environmental factors**

- *Level I and II animal experimentation.*
- *Basis for experimental surgery.*
- *Quantitative PCR and digital PCR: principles, strategies, method development and applications.*
- *Modern data manipulation with R: introduction to the Tidyverse and the dplyr package.*
- *Programming with R: data manipulation, functions, loops and task automation).*

2017 - 2019

**Sorbonne-Université** | PARIS

Master - Integrative Biology and Physiology

- *Cellular and Integrated Neurosciences.*

2014 - 2017

**Université Rennes I** | Rennes

Bachelor - Cell Biology, Genetics, Microbiology, Physiology

2012 - 2014

**Université Rennes I** | Rennes

PACES - Year common for health studies

2012

**High school** | REDON

Baccalauréat S, SVT, Physics/Chemistry speciality

2011

**SDIS56** | La Gacilly

Brevet National de Jeune Sapeur Pompier

National Certificate for Young Firefighters

## SCIENTIFIC PUBLICATIONS

- Masson et al., 2022 - **Critical Reviews in Toxicology** (10.1080/10408444.2022.2105688) - Review
- Angrand et al., 2022 - **Toxics** (10.3390/toxics10090518) - Review
- Badran et al., 2022 - **Vaccine** (10.1016/j.vaccine.2022.06.064)
- Angrand et al., 2021 - **Brain Behavior and Immunity** (10.1016/j.bbi.2021.09.003)
- Angrand et al., 2021 - **Toxicology** (10.1016/j.tox.2021.152787)
- Angrand et al., 2020 - **Annales Pharmaceutiques Françaises** (10.1016/j.pharma.2020.01.002) - Review

*Publications are currently being prepared and will be released.*



## POSTER PRESENTATION

- Journée Sciences de la Vie - Paris - 2023 - " **Molecular and behavioral studies in preweaning Irgm1-ko mice in response to an early postnatal immune challenge**"
- Journée Sciences de la Vie - Paris - 2022 - "**Sensory motor development in preweaning Irgm1-ko mice**"
- Federation of European Neuroscience Societies - Paris - 2022 - "**Autophagy and neurodevelopmental disorders: Sensory motor development in preweaning Irgm1-ko mice**"