

ADRIEN DUFOUR

Postdoctoral fellowship

+33 6 88 09 16 87
adriendufour.ad@gmail.com
41 rue de Versailles
91300 Massy France

EDUCATION

- 2021-2024 **PhD in Bioinformatics**
Doctorate degree in science. Title: **Prediction of cellular pluripotency states by single-cell multi-omics data in pigs**, supervised by Dr Hervée Acloque
University Paris-saclay, INRAE UMR GABI in Jouy-en-Josas
- 2018-2020 **Master in Bioinformatics**
Minor : Interfaces of Biology with Computer Science and Data Science
University of Rennes 1
- 2015-2018 **Licence of Biology**
Minor : Biotechnology
Université Catholique de Lille, Faculty of Business, Economics and Sciences

PROFESSIONAL EXPERIENCE

- MASTER INTERNSHIP**
1 Year (2020) **INSERM U1141 NEURODIDEROT, Paris | Pr Andrée Delahaye-Duriez**
Transcriptome analyzes of the inflammatory response of microglia during development
Skills : single-cell·Multivariate statistics·Transcriptomics
- MASTER INTERNSHIP**
04/06 (2019)
2 Months **CIRAD, Montpellier | Dr Gautier Sarah, Dr Anne Diévar**
From pangenomics to pangenics
Skills : Synteny·Genetic sequence comparison·BASH
- BACHELOR INTERNSHIP**
06/08 (2017)
3 Months **PASTEUR INSTITUTE OF LILLE**
Association study between rare genetic variants and Alzheimer's disease
Skills : R (Programming Language)·Statistical test
- BACHELOR INTERNSHIP**
06/07 (2016)
2 Months **CENTRE DE BIOLOGIE PATHOLOGIE, CHRU of Lille**
High-throughput sequencing data analysis of the PMS2 gene
Skills : Follow-up of an NGS·Data analysis

RESEARCH

- Peer-Reviewed Scientific Journals**
- *Neonatal inflammation impairs developmentally-associated subsets of microglia and promotes highly reactive microglia subset*
S. Foulon*, **A. Dufour***, A. Heydari-Olya* [...] J. Van Steenwinckel
Nature Communication (Writing)
 - *Cell specification and functional interactions in the pig blastocyst inferred from single cell transcriptomics*
A. Dufour* [...] H. Acloque
Genomics (Submitted)
 - *Targeting microglial disturbances to protect the brain from neurodevelopmental disorders associated with prematurity (Review)*
A. Delahaye-Duriez*, **A. Dufour** [...] J. Van Steenwinckel
Journal of Neuropathology & Experimental Neurology, 634–648, DOI: 10.1093/jnen/nlab049

COMMUNICATION

- Oral & Poster at International Conferences**
- **A. Dufour**. *Gene regulatory networks inference in the pigs embryos from scRNAseq and scMulti-omics* (Poster)
Intelligent Systems for Molecular Biology (ISMB) (2023 - Lyon, France)
 - **A. Dufour**. *Prediction of cellular pluripotency states by single-cell multi-omics data in pigs* (Oral)
International Symposium on Microgenomics (2023 - Florence, Italy)
 - **A. Dufour**. *Deciphering the molecular network controlling the biology of the pig blastocyst and its cellular interactions* (Poster)
Journées Ouvertes de Biologie, Informatique et Mathématique (JOBIM) (2022 - Rennes, France)
 - **A. Dufour**. *Single cell transcriptome analyses of microglia inflammatory response during development* (Poster)
Journées Ouvertes de Biologie, Informatique et Mathématique (JOBIM) (2021 - Held virtually)

SKILLS

LANGUAGE : FRENCH, ENGLISH
PROGRAMMING : R, Python, Bash, SQL, Java
ADOBE SUITE, LINUX, SLURM/SGE

HOBBIE

Photography for 10 years
President of a photography student association
Administration and contributions to wiki :
Wikipédia
Grande Bibliothèque de Tamriel (video-games)