Erwan Quignon

PhD - Postdoctoral position

28 years old

Contact

- Maron, France
- equignon
- Erwan Quignon
- 0000-0001-7929-8847

Soft skills

Autonomy | Adaptability
Multidisciplinary work
Curiosity | Tenacity

Languages

- French - Native
- English - C1
- Spanish - Basics

Activities

- Cooking/Baking
- Hiking
- Genealogy
- Reading

Interests

- Molecular Biology
- Bioinformatic
- Data visualisation

Work experience

Master 2 - Internship
March 2023 - July 2023
Biogenosis - Rouen, France

Development of a single-cell analysis pipeline for metagenomic/phylogenetic analysis
- Benchmarking and tools selection
- Development of a Nextflow pipeline for NGS analysis

PhD student in molecular biology
October 2018 - August 2022
IBMC - CNRS - Strasbourg University, France

Thesis : "Interaction of Influenza A virus genomic segments with NP nucleoprotein: structural impact and implications for genome packaging" under the supervision of Roland Marquet (UPR9002, CNRS)
- Production *in vitro* and purification of Influenza A virus RNAs
- Production of Influenza A virus proteins in bacteria expression system
- Usage of bioinformatics tools (statistics, secondary structure prediction, NGS)
- Learning of basics of programming in Python, R and LaTeX

(2021) Teaching in biochemistry (Bachelor 2nd year - Practical work)
- Practical work supervision

(2022) Teaching in microbiology (Bachelor 3rd year - Seminar and practical work)
- Seminar preparation
- Practical work supervision

Master 2 - Internship
January 2018 - June 2018
IBMC - CNRS - Strasbourg University, France

Title: "Study of Influenza A virus packaging signals"
- MIME (Mutational interference mapping experiment) application on Influenza A virus

Formations

Online courses
September 2023 - Present
Coursera, Online

- Python/Rust programming languages and machine learning algorithms

Master 2 - Bioinformatic - Complementary skills in Bioinformatics
2022-2023
Rouen Normandie University, France

- General aspects of bioinformatics
- Python (data analysis, machine learning) and R (data analysis) languages programmation
- NGS (genomic, metagenomic) data analysis and proteomic analysis
- SQL introduction

Master - Micro-organism biology - Virology specialisation
2016-2018
Strasbourg University, France

- General aspects of microbiology/virology
- Handling techniques commonly used in scientific research

Bachelor - Life and Environmental Sciences
2013-2016
Lorraine University, Nancy, France

- General aspects of biology and chemistry

Skills

- Python - Scripts/GUI/ML
- LaTeX - Thesis/Reports
- R - Statistics
- HTML - Basics
- Rust - Simple scripts
- Nextflow
- Biochemistry techniques
- Scientific communication
- Science monitoring

Publications

- Chemical and Enzymatic Probing of Viral RNAs: From Infancy to Maturity and Beyond, Gilmer O., Quignon E., *et al.,* 2021, Viruses *(joint first author)*
- Structural impact of the interaction of the influenza A virus nucleoprotein with genomic RNA segments, Quignon E., *et al,*, Viruses