

Olivier Dennler

Phd student in Bioinformatic

3 Rue des acacias
67360 Walbourg FRANCE
☎ 06 41 69 69 92
✉ olivierdennler@msn.com
26 years old
Driver's license

Education and Training

- 2019-2022 **Phd in bioinformatic**, Rennes 1 University
2019 **Molecular Phylogeny training**, CNRS training Montpellier (1 week)
- 2018-2019 **Master 2 Computer science and Integrative Biology**, Rennes 1 University
Sequences algorithm, machine-learning, combinatorial optimization, biological network studies, molecular modeling, semantic WEB
- 2017-2018 **Master 1 in Bioinformatic**, Rennes 1 University
Basic bioinformatics, programming, statistics, clustering methods, genomics, study of bioinformatics algorithms, sequence analysis
- 2014-2017 **Licence degree in Molecular and Cellular Biology**, Strasbourg University
Study of the molecular mechanisms of living organisms and the characteristics of different biological macromolecules as well as their analysis methods

Professional Experiences

- 2019-2022 **Phd : Phylogenetic prediction of functional sequence modules in ADAMTS-TSL proteins (supervisors, Drs N Th  ret and F Coste)**,
IRSET and IRISA, Rennes, Dymec team (Dynamics of microenvironment and Cancer) and Dyliss team (DYnamics, Logics and Inference for biological Systems and Sequences)
Development of a novel framework for integrating local sequence conservations and Protein-Protein Interactions evolutionary histories within phylogenetic trees. Application to the paralogs, orthologs, and isoforms of the multidomain A Disintegrin-like and Metalloproteinase with Thrombospondin motif (ADAMTS) protein family and establishment of the first conservation map of function-associated sequences during ADAMTS evolution revealing novel functional signatures.
- 2019 **Functional analysis of the ADAMTS / ADAMTSL family of proteins using methods of segmentation of sequences and phylogenetic reconciliations (supervisors, Drs N Th  ret and F Coste, 6 months)**,
IRISA Rennes, Dyliss team (DYnamics, Logics and Inference for biological Systems and Sequences)
Recovery and analysis of protein sequences. Establishment and implementation of an innovative method for functional characterization of protein regions. Integration of phylogenetic data, sequence conservation data and functional data.
- 2018 **Phylogenetic profiling of protein blocks (supervisors, Dr J Thompson, 2 months)**,
ICube Strasbourg, CSTB team (Complex Systems and Translational Biology)
Contribution to the implementation of a new tool for predicting protein regions involved in interactions. Development of scripts allowing the analysis of the results obtained by data mining and clustering. Validation of predictions obtained from a functional point of view by Gene Ontology enrichments and structural studies

Scientific Communications

- 2022 **Publication**,
O Dennler, F Coste, S Blanquart, C Belleann  e, N Th  ret., (2022). Phylogenetic prediction of functional sequence modules in ADAMTS-TSL proteins. Submitted
- 2022 **Poster**,
O Dennler, et al. (2022). Functional Motif Prediction in ADAMTS-TSL proteins Based on Module(s) and Phenotype(s) Co-appearance. Rencontres Alphy / AIEM - G  nominique   volutive, Bioinformatique, Alignement et Phylog  nie, Mar 2022, Rennes, France
- 2021 **Poster**,
O Dennler, et al. (2021). Phylogenetic Functional Module Characterization of the ADAMTS / ADAMTS like Protein Family. JOBIM : Journ  es Ouvertes en Biologie, Informatique & Math  matiques, Jul 2021, Paris, France

- 2021 **Poster**,
O Dennler, *et al.* (2021). Phylogenetic Functional Module Characterization of the ADAMTS / ADAMTS like Protein Family. WABI 2021 - Workshop on Algorithms in Bioinformatics, Aug 2021, Chicago (Online), United States

Community and volunteer experiences

- 2021-2022 **President of the Nicomaque association**,
In the organizing committee of a science popularization film festival (Sciences En Cour[t]s)
- 2022 **Team member of the organizing comitte for the annual event that federates French bioinformatics : JOBIM, The Journées Ouvertes en Biologie, Informatique et Mathématiques; 5-8 july, Rennes**
- 2020 **Sciences En Cour[t]s participation**,
Production of a popular science short films
- 2017-2018 **Member of the committee of the E-BIGO association (Students in Bioinformatics of the Great West)**,
Secretary, participation in the organization of BIG-Day 2018
- 2016-2017 **Member of the committee of an archery club (1er Cie d'Arc Strasbourg)**,
Assistant treasurer, interim secretary

Technical and personal skills

Bioinformatic

- Sequence analyzes Protein sequence study
Multiple sequences alignment tools
Sequence segmentation techniques
- Data usage Query biological databases
Integration and understanding of various types of biological data
- Phylogeny Basic knowledge of phylogeny
Techniques of phylogenetic reconciliations
Profiling phylogenetics
Functional annotation using phylogeny

Computer science

- Programmatic languages Python
Java
R
Bash
Bases in SQL/HTML/Latex
- OS Windows, GNU/Linux
- Tools Microsoft Office, Git

Languages

- French Mother tongue
English CLES B2
German A2 (basic)