

SAMY AMIRI

BIOLOGICAL ENGINEER IN
DATA PROCESSING

PERSONNAL PROFILE

As a recent graduate with a master's degree in Bioinformatics - Omics and Systems Biology at the University of Lille, I am passionate about exploring the aspects of molecular and cellular biology. During my internships, I gained valuable experience in analytical applications and also integrating experimental data into structure modeling research. Inspired by my experiences, I decided to pursue my career in research and combine both my experimental and analytical skills .

FIELDS OF EXPERTISE

EXPERIMENTAL

COMPUTER SKILLS

INTERNSHIP:

Cryostat:

- Mouse brain sections

Protein extraction

(Brain Cuts):

- FASP
- SP3

Lipid Extraction

(Brain sections):

- Folch
- MTBE

Mass Spectrometry (MS)

Mass Spectrometry Imaging (MSI)

Programmation:

- Python
- R
- TCL
- Bash

Softwares:

- Autodock
- Autodock vina
- Dock6
- CNS
- VMD
- Chimera
- Amber

ACADEMIC:

- Western blot
- RT-qPCR

CONTACT INFORMATION

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LANGAGES:

- French
- English
- Arabic

REFERENCES

• Diego Gauto (ICSN)

diego.gauto@cnrs.fr

• Irina Lassot (IGMM)

irina.lassot@igmm.cnrs.fr

HOBBIES

- Music
- Movies
- Video games

ACADEMIC BACKGROUND

UNIVERSITY OF LILLE

Master Bio-informatique parcours : Omics and Systems Biology | 2021 - 2023

- Multidisciplinary course for an integrative approach to the functions of living organisms through Omics data.
- Production of omics data and integrated analyzes in biology
- Concepts and tools for an integrative approach in biology

SORBONNE UNIVERSITY | PARIS

Bachelor's Degree: Life Science | 2017 - 2021

DRAA MOHAMED SEDIK | JIJEL - ALGERIA

Scientific baccalaureate | 2016

PROFESSIONAL EXPERIENCE

BIOLOGICAL ENGINEER IN DATA PROCESSING

Institut de génétique moléculaire de Montpellier (IGMM-CNRS) | March - August 2024

Conduct bioinformatics analysis on data acquired through mass spectrometry, RNA-seq, HRS. This analysis is aimed at:

- Prioritizing transcription factors that may be involved in the abnormal activation of a gene linked to Parkinson's disease.
- Generate a more concise list of transcription factors for further experimental investigations.
- Literature review and usage of publicly available bioinformatics tools and data online.

INTERSHIP AT INSTITUT DE CHIMIE DES SUBSTANCES NATURELLES (ICSN-CNRS) In Collaboration with Servier February - August

Methods development on protein-ligand structure elucidation with integration between InSilico and the experimental data aimed at advancing pharmaceutical goals for drug discovery.

- Generic modeling
- Experimental data integration
- Molecular dynamics simulation
- Computational work
- Literature review and report writing

INTERNSHIP AT PRISM LABORATORY (INSERM) University of Lille | April - July 2022

Experimental settings and optimization of mass spectrometry protocols for spatially resolved lipidomics with a focus on mouse brain lipid mapping. The goal is to discern potential alterations in lipid presence associated with presence of a tumor.

- Backside irradiation
- Liquid Surface Analysis (LESA)
- Mass spectrometry (ESI, MALDI imaging)
- Results interpretation
- Literature review and report writing

EVENTS

CPPS DAY (FÉDÉRATION DE CHIMIE-PHYSIQUE DE PARIS-SACLAY)

- Poster presentation