Anis Elloumi

Personal details

👤 Anis Elloumi

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🏠 Montpellier - Paris

Skills

Instrumental Software Xcalibur Thermo, Mass hunter Agilent, the Analyst Sciex and Masslynx Waters ●●●●●

Driftscope calculator ●●●○○

IT Skills - Microsoft Office Suite (Word, Excel, Powerpoint) ●●●●●

IT Skills - Python, Pascal, Maple, Data mining Scientist with R ●●●●○

Data processing software MZmine, MS Dial ●●●●●

Molecular Network GNPS, MetGem, XCMS ●●●●●

Annotation software CFM ID, MS2QUERY, MS2LDA, Sirius, Metwork, Cytoscape ●●●●●

Molecule Editor ChemDraw Professional ●●●●●

Prediction of biological \newline activity - NP analyst, FiBiCo, Fermo and Jupiter book ●●●●●

Profile

Doctor in Biomolecular Engineering, Engineer in Analytical Chemistry and Master's in Quality

Education

Doctorate in Biomolecular Engineering   2020 - 2023
National Center for Scientific Research (CNRS) - University of Montpellier, France
My thesis implemented a dual strategy.
Firstly, it involved annotating derivatives of polyunsaturated fatty acids using the molecular network technique, annotation tools, and MS/MS fragmentation mechanisms.
Secondly, it focused on identifying bioactive metabolites derived from polyunsaturated fatty acids that activate the TREK 1 channel, thereby paving the way for new therapeutic perspectives in epilepsy, chronic pain, and heart diseases. This identification was accomplished through the application of the molecular network technique associated with bioactivity.

Master's in Molecular Chemistry: Strategy   2018 - 2020
and Quality in Analytical Chemistry
University of Orleans, France
A training program in analytical chemistry focused on analysis strategies and quality aspects

Engineer in Analytical Chemistry and   2015 - 2018
Instrumentation
Faculty of Sciences and Technologies, Tunisia
Comprehensive training on analytical methods and the instrumentation component
Attained with honors (very good).

Employment

Doctorate in Biomolecular Engineering   2020 - 2023
National Center for Scientific Research (CNRS) - University of Montpellier., France

Research internship   2019 - 2020
French Anti-Doping Agency - University of Paris-Saclay, Faculty of Pharmacy, France
Development and Validation of an Analytical Method,
LC-MS/MS Data Acquisition and Processing
Utilization of molecular networks for the detection of new metabolites and identification of novel steroids based on in silico metabolism

Academic project   2019 - 2019
CNRS - University of Orleans, France
Study of the distribution of methoxyserratanes for the discrimination of a species within the Pinacae family and its potential to become a precise and distinctive marker

End-of-study project internship   2018 - 2018
ADWYA Pharmaceutical Laboratories, Tunisia

Internship   2017 - 2017
Merck Laboratory

Scientific paper

Scientific Data, Nature 2024
From MS/MS Library Implementation to Molecular Networks: Exploring Oxylipin
Diversity with NEO-MSMS

British Journal of Pharmacology 2023
Activation of hTREK-1 by polyunsaturated fatty acids does not only involve
membrane tension

**Scientific Data, Nature 2024 (Currently under
submission)**
Implementation of a MS/MS Database for Anabolic-Androgenic Steroid and other
anabolic agents

**Analytical Chemistry 2024 (Currently under
submission)**
Application of molecular networking for the detection of unknown metabolites:
Proof of concept with Stanozolol