Hassan HIJAZI

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Languages
- Arabic   (native)
- English (C1)
- French   (B2)

Computer Skills
- R & Python
- Unix command line
- Git/Github

Professional Activities

Teaching

•**Introduction to Proteomics**
'UE Biotechnology of DNA systems' course for master students | Université Grenoble Alpes (2024)

•**Introduction to Proteomics**
'High Throughput Biology' course for master students | Université Grenoble Alpes (2024)

Supervision
Supervised two master students for their internship research projects

Participations

•French Proteomics Society - Club-Jeunes (**FPS-CJ**) Bourdeaux - France (2021) [Flash Talk]

•Joint Meeting of Spanish, French, and Portuguese Proteomics Societies
  - **ProteoVilamoura** - Vilamoura - Portugal (2022) [Flash talk]
  - **ProteoAix** - Aix-en-Provence - France (2023) [Poster]

•Symposium "Signaling through Chromatin" - Grenoble -France (2023) [Poster]

•Mass Spectrometry and Proteomic Analysis (**SMAP**) conference - Lille - France (2024) [Bioinformatics workshop on using MGFBoost for reliable histone post-translational modification identification]

•**HUPO** - Dresden - Germany (2024) [Poster]
•**EuPA** - Saint-Malo - France (June 2025) [Oral talk]

Distinction

Two published poetry books
- "A second Apple for Eve" 2015
- "Lamar" 2018
- Rewarded scout holding "wood badge" from Fédération du scoutisme Libanais (2016).

For more detailed CV, please visit my personal website

SCIENTIFIC EXPERIENCE

PhD project | 2021 – 2025
- **Location:** EDyP Lab - CEA – Grenoble
- **Subject: Studying Histone Lysine Acylations in Huntington's Disease by Proteomics**
    - ESI-MS (DDA & PRM)
    - Histone extraction and biochemical processing for proteomic analysis
    - Skyline, Mascot, FreeStyle, …
    - Histone proteomics data analysis in R & Python (HistonePTM)

Master Research project | 2021 (5 months)
- **Location:** Institute of Structural Biology – Mass spectrometry Platform – Grenoble, France
- **Subject:** Impact of detergents on sequencing membrane proteins using MALDI-MS
    - Top-down MALDI-MS
    - protein purification, buffer exchange.
    - Unidec, Massign

Master Research project | 2020 (6 months)
- **Location:** ETH Zürich - **D**BSSE – Bioprocess Laboratory – Sven Panke's Lab – Basel, Switzerland
- **Subject:** Ultradeep Sequence-Function Mapping of Prokaryotic Promoter Libraries
    - PCR, Molecular cloning, cell culture, DNA extraction

PUBLICATIONS

Histone derivatization with trimethyl-acetic anhydride for the in-depth characterization of glucose-sensitive acetylation sites using isotopic tracing (in preparation)
Hassan Hijazi, Sabine Brugiere, Hisham Al Toufaily, Salem Al Siblani, Delphine Pflieger

Mind Your Spectra: Bullet Points to Validate the Identification of Isobaric Histone Peptidoforms
Hassan Hijazi, Julie Manessier, Sabine Brugiere, Tina Ravnsborg, Marie Courçon, Ole N Jensen, Anne-Marie Hesse, Christophe Bruley, Delphine Pflieger
DOI: 10.1021/acs.jproteome.4c01056

Impact of Arsenite on Histone H3 Modifications in Relation to Other Parameters of Cellular Stress (under submission)
Tatjana Lumpp, **Hassan Hijazi**, Sandra Stößer, Eda Tekin, Franziska Fischer, Sabine Brugière, Delphine Pflieger, and Andrea Hartwig

Quantitative Profiling of Histone Variants and Posttranslational Modifications by Tandem Mass Spectrometry in Arabidopsis
Vangeli Geshkovski, **Hassan Hijazi**, Julie Manessier, Sabine Brugière, Marie Courçon, Gilles Vachon, Delphine Pflieger & Cristel C. Carles
DOI: 10.1007/978-1-0716-4228-3_2

Sequencing intact membrane proteins using MALDI mass spectrometry
Edison Zhamungui Sánchez, **Hassan Hijazi**, Jana Haidar, Enrica Mecarelli, Elda Bauda, Isabelle Petit-Härtlein, Jean-Marie Teulon, Jean-Luc Pellequer, Elisabetta Boeri Erba
DOI: 10.3389/frans.2023.1124741

Toehold switch based biosensors for sensing the highly trafficked rosewood *Dalbergia maritima*
Paul Soudier, Daniel Rodriguez Pinzon, Tristan Reif-Trauttmansdorff, **Hassan Hijazi**, … Anna Niarakis, Manish Kushwaha, Ioana Grigoras
DOI: 10.1016/j.synbio.2022.03.003

EDUCATION

Université Grenoble Alpes – **France |** 2021 – 2025
- **École doctorale Chimie et Sciences du Vivant (ED CSV)**
- **Funded by GRAL**

Université Grenoble Alpes – **France |** 2020 – 2021
- **Master 2 in Nanosciences and Nanotechnologies**

Université Paris Saclay – **France |** 2019 – 2020
- **Master 2 in Systems and Synthetic Biology**

Lebanese University, Faculty of Sciences (I) - Lebanon
- **Master 1:** Applied Animal Biology 2013 – 2014
- **Bachelor's degree:** Life and Earth Sciences 2010 – 2013