



The Proteomics Team (Bioinformatics)

Patrick Poullet: Team leader, dev, data analysis Stéphane Liva: dev, data analysis Isabel Brito (50%): statistics Lieng Taing: dev, workflow/NGS

Valentin Sabatet: dev, data management Victor Laigle: dev, data analysis **Bioinformatics platform**

Mass spectrometry facility

Missions:

- Bioinformatics support for IC proteomics facilities (Mass Spec, RPPA)
- Contribute large-scale proteomics-based projects
- Assist end-users (project design, training, ...)
- Methodological development













Support to proteomics facilities

Implement comprehensive solutions for user-friendly data access, management and analysis (both **facilities** and **collaborators**).



myProMS: Poullet et al. Proteomics 7, 2007 https://github.com/bioinfo-pf-curie/myproms













myProMS main functionalities

Client side







Update since 03/2019

myProMS:

- PTMs quantification (DDA/DIA):
 - Multi-PTMs •
 - Protein FC correction •
 - IPF workflow (OpenMS) •
- Native support for Skyline (PRM/DIA)
- Improved support to MaxQuant (multi-parameter groups, latest version)
- Proteomic Ruler (absolute quantification)
- Improved computation throughput (300 tumour samples in DIA) \geq
- MySQL database optimization: 250Go to 150Go
- Migration from Perl (2003!) to Python (initiated)

Proteogenomic:

- Proteome generator
- **CustomProDB**
- In-house workflow









