

Pierre Mallinoud

Bioinformatics Engineer

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🌐 <https://pmall.github.io/en>

📍 LYON - France



- Bioinformatics engineer and technical expert with 12 years of experience in the development of bioinformatics tools, database design and management, large-scale statistical analysis, genomic and molecular data processing and rich web interfaces
- Comfortable in dynamic, multidisciplinary environments
- Co-author of two peer-reviewed scientific publications

Work Experience

ENYO Pharma • Lyon • October 2014 - February 2024

Clinical-stage biopharmaceutical company with an innovative drug discovery approach

- Design and management of VinlandDB, a database of human and viral protein-protein interactions
- Development of web interfaces for both private curation of publications related to protein-protein interactions and public exploration of VinlandDB (<https://vinland.network>)
- Creation of internal tools to manage laboratory biological materials and to analyze experimental results produced within the company
- Development of custom software and statistical analyses to support ENYO Pharma's drug discovery platform
- Large-scale data analyses to characterize the mode of action of therapeutic compounds (RNAseq, microarrays, proteomics, functional annotations, molecular databases)
- Participation in the MIMESIS project, funded by the EU (screening of 10,000 compounds from the drug discovery platform, 3.5 millions)
- Participation in the CARE consortium, funded by the EU (Corona Accelerated R&D in Europe, 70 millions, 37 partners)
- Collaboration with the Swiss Institute of Bioinformatics on research projects
- Participation in the recruitment and supervision of bioinformatics interns, including projects on protein motif analysis and molecular machine learning

Inserm U851/U1111 • Lyon • October 2013 - October 2014

Cellular Biology of Viral Infection Team

- Contribution to early development of VinlandDB

Personal Projects • 2024

- Development and deployment of Solidity contracts on the Ethereum blockchain
- Development of web3 interfaces to interact with these smart contracts

Internships & Fixed-term Positions

Cancer Research Center of Lyon

Alternative Splicing and Tumor Progression Team

- **Development of a microarray analysis platform for exon-level DNA chips**
M2 Internship (February – June 2011), then Fixed-term Contract (July 2011 – November 2012)
- **Development of a database annotating alternative splicing events in the human genome**
M1 Internship (March – June 2010), then Short-term Contract (July – August 2010)
<https://fasterdb.ens-lyon.fr/>

Publications

Meyniel-Schicklin L, Amaudrut J, Mallinjoud P, et al. **Viruses traverse the human proteome through peptide interfaces that can be biomimetically leveraged for drug discovery.**

Proc Natl Acad Sci U S A. 2024;121(5):e2308776121. doi:10.1073/pnas.2308776121

Mallinjoud P, Villemin JP, Mortada H, et al. **Endothelial, epithelial, and fibroblast cells exhibit specific splicing programs independently of their tissue of origin.**

Genome Res. 2014;24(3):511-521. doi:10.1101/gr.162933.113

Technical Skills

Programming languages:

TypeScript, PHP, Perl, Python, R, SQL, Solidity

Frameworks/Libraries:

React, Next.js, Tailwind CSS, PyTorch, Langchain

Data Infrastructure:

PostgreSQL, Docker, Linux server administration, big data handling

Blockchain:

Advanced knowledge of Ethereum and Solidity

Productivity & AI:

Word, Excel, PowerPoint, AI tools

Languages:

Fluent English, scientific vocabulary

Education

2011 Master's Degree in Health and Population – Bioinformatics, Biostatistics, Genomics
Université Claude Bernard Lyon 1 - Lyon (69)

2009 Bachelor's Degree in Computer Science
Université de Savoie - Chambéry (73)