

Curriculum Vitae

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EDUCATION

Postgraduate diploma – Biostatistics and Methods in Public Health *Paris Saclay University, Paris, France Oct 2023 — Sep 2024*

Master level courses in :

- Probability and Statistics
- Clinical Research
- Quantitative Epidemiology

Doctor of Philosophy – Biochemistry, Microbiology *Sorbonne University, Paris, France Nov 2018 — Sep 2021*

Master of Science - Medicinal Chemistry *Friedrich-Schiller-University, Jena, Germany Sep 2014 — Sep 2016*

- German *Diplom*

State examination - Pharmacy * *Friedrich-Schiller-University, Jena, Germany Sep 2010 — Sep 2014*

RESEARCH EXPERIENCE

Doctoral Researcher – Biochemistry, Microbiology *INSERM, Paris, France Jun 2018 — Sep 2021*

Researcher in Team 12 “Structures implicated in antibiotic resistance” at the *Centre de Recherche des Cordeliers*, Paris

Two main axes of research:

1) Biological characterization of new generation β -lactamase inhibitors

in vitro and *in vivo* characterization of inhibitors, data analysis and interpretation, feed-back into the consult-design-test-repeat cycle in collaboration with the team of organic chemists

2) Fundamental research on cell wall metabolism in gram-negative bacteria

De novo method development: isotopic labeling of cell cultures, sample preparation, analysis by mass spectrometry, custom data analysis tools and pipelines

Key achievements and skills:

- Exploration of the chemical space around the core inhibitor and identification of curcial ligand-target-interactions
- Handling and managing a large amount of results and data from biological experiments

Research assistant – Medicinal and Pharmaceutical Chemistry *Friedrich-Schiller-University, Jena, Germany Sep 2014 — Sep 2016*

Biological charaterization of putative anti-inflammatory substances, fundamental research on signaling cascades in inflammation using biochemical methods and imaging techniques

WORK EXPERIENCE

Pharmacist

Pharmacie Attal *Fontenay-aux-Roses, France* Oct 2021 – present

Pharmaceutical counseling of patients

Responsible for communication with medical staff in nursing homes

Supervision of technical staff and pharmacy students

Other Pharmacies *Jena, Germany* Nov 2015 – May 2018

Pre-registration pharmacist

F. Hoffmann-La Roche *Basel, Switzerland* May 2015 – Oct 2015



SKILLS

Languages

German: Native Speaker
English: Professional proficiency
French: Professional proficiency

Technical

- Programming languages:

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-  : advanced
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PUBLICATIONS

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Atze et al. (2022) Bouchet et al. (2021) Bouchet et al. (2020) Le Run et al. (2020) Triboulet et al. (2019) Garscha et al. (2017)

Journal articles

- Atze, Heiner, Yucheng Liang, Jean-Emmanuel Hugonnet, Arnaud Gutierrez, Filippo Rusconi, and Michel Arthur. 2022. “Heavy Isotope Labeling and Mass Spectrometry Reveal Unexpected Remodeling of Bacterial Cell Wall Expansion in Response to Drugs.” *Elife* 11: e72863.
- Bouchet, Flavie, Heiner Atze, Michel Arthur, Mélanie Ethève-Quelquejeu, and Laura Iannazzo. 2021. “Traceless Staudinger Ligation to Introduce Chemical Diversity on β -Lactamase Inhibitors of Second Generation.” *Organic Letters* 23 (20): 7755–58.
- Bouchet, Flavie, Heiner Atze, Matthieu Fonvielle, Zainab Edoo, Michel Arthur, Mélanie Ethève-Quelquejeu, and Laura Iannazzo. 2020. “Diazabicyclooctane Functionalization for Inhibition of β -Lactamases from Enterobacteria.” *Journal of Medicinal Chemistry* 63 (10): 5257–73.

- Garscha, Ulrike, Erik Romp, Simona Pace, Antonietta Rossi, Veronika Temml, Daniela Schuster, Stefanie König, et al. 2017. “Pharmacological Profile and Efficiency in Vivo of Diflapolin, the First Dual Inhibitor of 5-Lipoxygenase-Activating Protein and Soluble Epoxide Hydrolase.” *Scientific Reports* 7 (1): 9398.
- Le Run, Eva, Heiner Atze, Michel Arthur, and Jean-Luc Mainardi. 2020. “Impact of Relebactam-Mediated Inhibition of Mycobacterium Abscessus BlaMab β -Lactamase on the in Vitro and Intracellular Efficacy of Imipenem.” *Journal of Antimicrobial Chemotherapy* 75 (2): 379–83.
- Triboulet, Sebastien, Zainab Edoo, Fabrice Compain, Clément Ourghanlian, Adrian Dupuis, Vincent Dubée, Laetitia Sutterlin, et al. 2019. “Tryptophan Fluorescence Quenching in β -Lactam-Interacting Proteins Is Modulated by the Structure of Intermediates and Final Products of the Acylation Reaction.” *ACS Infectious Diseases* 5 (7): 1169–76.

References

Available upon request

CV template adapted from huang2023