

Dr. rer. nat. Andrea Venturi



Postdoc - Lipid Metabolism: Analysis and
Integration – University of Technology Dresden

Role in LiSyM-Cancer

- Spatial lipidomics analysis within the DEEP-HCC project
- Supervised by Prof. Dr. Maria Fedorova

Expertise

- Lipidomics and metabolomics LC-MS analysis
- Spatial lipidomics and metabolomics MALDI-MS analysis

Degrees

- **PhD (Dr. rer. nat)**
University of Perugia, Italy
Dealing with partitioning and solubility: From environmentally-friendly solvents for lipid extraction to kinetic solubility and LogD_{7,4} of PROTACs
- **Master thesis**
University of Perugia, Italy
In silico and in vitro studies of the physicochemical properties of PROTACs: chemoinformatic analysis of databases and experimental determination of LogD_{7,4} values
- **Bachelor thesis**
University of Perugia, Italy
Design of small molecules for selective protein degradation: chemometric analysis and synthetic strategies for 'PROteolysis TArgeting Chimera' (PROTAC) compounds

Publications

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| 2025-10-04 | Towards sustainable lipidomics: computational screening and experimental validation of chloroform-free alternatives for lipid extraction
<i>Analytical and Bioanalytical Chemistry</i> |
| 2024-09-13 | Between Theory and Practice: Computational/Experimental Integrated Approaches to Understand the Solubility and Lipophilicity of PROTACs
<i>Journal of Medicinal Chemistry</i> |
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