Bio of Matteo Rossi Sebastiano

Dr. Matteo Rossi Sebastiano is a computational medicinal chemist and postdoctoral researcher at the Department of Biotechnology of the University of Turin. He graduated in Pharmaceutical Sciences from the same University and subsequently joined the Kihlberg Lab at Uppsala University, where he investigated the molecular determinants of drug permeability and distribution in non-conventional drug candidates.

He then moved to the University of Bern for a PhD and a postdoctoral fellowship at the Institute of Pharmacology under the supervision of Prof. Georgia Konstantinidou, investigating lipid metabolism and signaling in KRAS-driven adenocarcinomas, exploring novel potential therapeutic target axes.

Since 2024, he also serves as Director of Computational Biology at SevenTM Inc., a Canadian biotech startup focused on rare AML subtypes, reflecting a growing interest in exploring industry/academia partnerships. Drawing on his experimental background, his research has now crystallized around a central question: how can computational approaches make experimental work more targeted and cost-accessible? To address this, he integrates AI-driven protein structure modeling, structure-based drug discovery, and PROTAC design with wet lab validation — collaborating with patient associations, clinical networks, and research institutions to develop therapeutic strategies for rare underfunded diseases and other conditions where patients still have few perspectives.

Title of the Seminar

Molecules, Models, and Mechanisms in Rare Diseases: Can We Integrate Computational and Experimental Approaches for Variant Interpretation and Personalized Drug Discovery?