

Temp Position description

Position Title (English): Master Post Graduate for Protein Mass Spectrometry Analytics (100%*)

Start: Feb 1st, 2024 – Nov 30th, 2024. Duration: 10 months

6500! That's the number of associates in the BioMedical Research (BR). This division is the innovation engine of Novartis, focusing on powerful new technologies that have the potential to help produce therapeutic breakthroughs for patients.

Position Profile

Biologics Research Center (BRC) is responsible to create new Biologics entities ranging from monoclonal antibodies to AAV molecules, and to ensure their fitness to requirements that a drug must fulfill. Integrity determination is an important aspect for the characterization of biologics, especially for new formats and modalities. Currently in-vitro and in-vivo assessments are mostly done using Elisa type of assays or by LC-MS/MS detection of specific marker peptides. These technologies provide mainly identity readout (with quantitation) but not any results on the integrity of the molecule. For this purpose, immune purification followed by intact mass analyses must be performed. It is currently already existing but often lacks the sensitivity for following the in-vivo (e.g., mouse) fate of a molecule over time.

The goal of this project is to set up a sensitive immuno-purification (IP) followed by μ LC-MS integrity determination either by rpLC-MS or native SEC-MS.

Responsibilities will include but are not limited to:

Set-up sensitive immuno-purification workflow on various antibodies, proteins, and related molecules.

Set-up sensitive analyses by mass spectrometry (rpLC-MS and/or Native SEC-MS) of the molecules which have been immune-purified.

Processing of data, result interpretation and preparation of summary documents and reports.

Writing of laboratory protocols

What you'll bring to the role:

Education: MSc or equivalent education in Analytical chemistry, Biochemistry, Biotechnology or a related discipline.

Experience:

Practical experience to the characterization proteins, antibodies, and related molecules, especially with mass spectrometry would be of benefit. Solid theoretical knowledge of protein chemistry and analytical methods for characterization of proteins, e.g., liquid chromatography would be of advantage.

Diligent and accurate working style, as well as communication and organizational skills are required.

Good knowledge of laboratory, technical & computational tools.

Ability to be a self-motivated team player able to thrive in a dynamic matrixed working environment.

Languages: Proficiency in English (oral and written), German and/or French would be helpful.

Why consider Novartis?

750 million. That's how many lives our products touch. And while we're proud of that fact, in this world of digital and technological transformation, we must also ask ourselves this: how can we continue to improve and extend even more people's lives?

We believe the answers are found when curious, courageous, and collaborative people like you are brought together in an inspiring environment. Where you're given opportunities to explore the power of digital and data. Where you're empowered to risk failure by taking smart risks, and where you're surrounded by people who share your determination to tackle the world's toughest medical challenges. We are Novartis. Join us and help us reimagine medicine

*Some restrictions on flexible working options may apply and will be discussed during interview if applicable.