

# Senior Scientist in Immunogenicity & Mechanistic Immunology (80-100%\*)

Job ID  
393013BR  
Sep 02, 2024  
Switzerland

## Summary

Location: Basel, Switzerland  
Fulltime, Onsite #LI-Onsite

Improving and extending people's lives is what we do. It's our purpose, our calling – the summit we're always striving to reach.

The Immunogenicity and Mechanistic Immunology (IMI) group is seeking for a highly motivated Senior Scientist candidate, with a strong background in cellular and molecular human immunology, to join our team in Basel, Switzerland.

## About the Role

We are seeking to hire a motivated candidate with background in cellular and molecular human immunology to join the Immunogenicity & Mechanistic Immunology (IMI) Unit in Basel. The group is a research exploratory team within the Biologics Research Center (BRC) at BR, with the mission to provide an immune platform to support immunogenicity and mechanistic immune profiling of biotherapeutics across different modalities in collaboration with all Disease Areas from early drug discovery to the clinic. The candidate will leverage their expertise in immunology and mass spectrometry to drive innovative approaches to improve the understanding of immunogenicity and promote the development of safe and efficacious biotherapeutics.

### Your responsibilities include, but are not limited to:

- Design and execute experiments to evaluate the immunogenicity of biotherapeutics with the main focus on the analysis of cell-derived peptide samples using liquid chromatography mass spectrometry (LC-MS), but also partially including isolation and culture of human cells, their quality control via flow cytometry and isolation of cell-derived peptidomes via biochemical approaches.
- Develop and optimize LC-MS-based methods for the identification and characterization of peptides and proteins involved in immune responses
- Perform data analysis, interpretation, and visualization of mass spectrometry data to identify potential immunogenic peptide epitopes and understand their role in immune responses.
- Stay up-to-date with the latest advancements in mass spectrometry techniques and immunology immune assays to identify opportunities to enhance assay sensitivity, specificity, and throughput.
- Coordinate and communicate effectively with colleagues and collaborators to ensure timely execution of projects.
- Maintain accurate and comprehensive records of experiments, protocols, and results.

- Communicate data and results within the group and to the project teams

### **Minimum Requirements:**

- University degree (BSc and/or MSc) in a Life Science discipline, with a preference for a background in Immunology, Biochemistry, or a related field.
- Demonstrated hands-on experience with LC-MS systems for peptidome analysis. Experience with Orbitrap-based systems of advantage.
- Demonstrated proficiency in mass spectrometry data analysis softwares (e.g., PEAKS, SEQUEST/Proteome Discoverer), proficiency in Excel, and basic knowledge of statistical analysis
- Understanding of basic immunology including principles of driving immune responses.
- Experience with the identification of HLA class II associated peptides via LC-MS of advantage
- Interest in primary cell culture and cell-based technologies
- Excellent written and verbal communication skills, with the ability to effectively communicate complex scientific concepts to diverse audiences.
- Strong problem-solving and critical-thinking skills, with the ability to design and execute experiments independently.
- Ability to work collaboratively within teams and across different departments.

\*Restrictions on working flexibility may apply to this position and can be discussed at interview as required

### Accessibility and accommodation

Novartis is committed to working with and providing reasonable accommodation to all individuals. If, because of a medical condition or disability, you need a reasonable accommodation for any part of the recruitment process, or in order to receive more detailed information about the essential functions of a position, please send an e-mail to [inclusion.switzerland@novartis.com](mailto:inclusion.switzerland@novartis.com) and let us know the nature of your request and your contact information. Please include the job requisition number in your message.

**Why Novartis:** Helping people with disease and their families takes more than innovative science. It takes a community of smart, passionate people like you. Collaborating, supporting and inspiring each other. Combining to achieve breakthroughs that change patients' lives. Ready to create a brighter future together? <https://www.novartis.com/about/strategy/people-and-culture>

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Division

Biomedical Research

Business Unit

Pharma Research

Location

Switzerland

Site

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area  
Research & Development  
Job Type  
Full time  
Employment Type  
Regular  
Shift Work  
No  
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Novartis is committed to building an outstanding, inclusive work environment and diverse teams' representative of the patients and communities we serve.

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