

Post Doc RNA Delivery

Job ID
REQ-10050230

4月 28, 2025

Switzerland

摘要

In Pharmaceutical Development, we aim to make a difference to patients around the world by continuous development of cutting edge new products, including innovative pharmaceutical technologies for parenteral dosage forms containing RNAs. As a PostDoc, located in Basel (Switzerland), you will lead and execute design, process development, and characterization of a new generation of Lipid Nanoparticle (LNP) formulations in close collaboration with experts within the Technical Development and Biomedical Research groups in Switzerland and the USA.

About the Role

As a PostDoc, located in Basel (Switzerland), you will lead and execute design, process development, and characterization of a new generation of Lipid Nanoparticle (LNP) formulations in close collaboration with experts within the Technical Development and Biomedical Research groups in Switzerland and the USA.

Preferred start date: July 1st, 2025

Latest start date: August 1st, 2025

Duration: 24 months

Please attach a cover letter explaining your motivation for this position and let us know when you are available. Thank you very much.

Please note that we can only accept applicants who are eligible to work in Switzerland or have completed their studies at a Swiss University

Key responsibilities:

- Conception, design, execution and reporting of an independent research program for the development of a novel LNP platform for RNA delivery
- Formulation and characterization of novel lipid nanoparticle designs
- Data analysis and correlation of nanoparticle characteristics to biological endpoints in vitro and in vivo to enable data driven optimization of lipid nanoparticles with superior biological properties
- Process development activities and assessment of process performance
- Close collaboration with key stakeholders and interfaces within the organization and externally on the project

Essential requirements:

- Education: PhD in life sciences (e.g. chemistry, biochemistry, pharmacology, pharmaceutical sciences, Bio- or chemical engineering or similar fields, completion of PhD no longer than 3 years ago)
- Languages: Proficiency in English
- Experience/Professional requirements:
 - Deep theoretical knowledge and practical experience in lipid nanoparticle formulation and process development in the context of RNA delivery, including physicochemical and bio-functional characterization.
 - Organizational and scientific skills including curiosity and planning and execution of lab work
 - Ability to work in multidisciplinary teams in an international environment
 - Strong publication track record and evidence of strong scientific communication and presentation skills

Desirable requirements:

- Experience in state-of-the-art pharmaceutical technology/processing and characterization of physicochemical properties / pharmaceutical material sciences (e.g. characterization of LNP morphology)
- Practical experience in cell culture and flow cytometry as well as in the development of

biochemical assays

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部门

Development

Business Unit

Innovative Medicines

地点

Switzerland

站点

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Others

Job Type

Full time

Employment Type

Early Career (Befristet)

Shift Work

No

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