

# Principal Scientist - In-Vivo Physiology, Diseases of Aging and Regenerative medicine (DARe)

Job ID  
REQ-10055008  
Jun 20, 2025  
Switzerland

## Summary

Location: Basel, Switzerland  
Onsite, full time, #LI-onsite

### About the role

We are seeking a dedicated, innovative, and skilled neuroscientist to apply their research experience in neurodegenerative diseases to study age-related pathophysiological changes in the central nervous system (CNS) leading to progressive structural and functional decline. You will join our global, dynamic research environment to enable the discovery of new medicines addressing neurodegenerative diseases of aging.

## About the Role

Our vision is to pioneer the development of novel therapeutic approaches from an understanding of age as the greatest risk factor for neurodegeneration and associated functional decline.

The ideal candidate will have a strong background in neurodegenerative diseases, namely Alzheimer's disease, and experience in the translational aspects of human pathophysiology with rodent model systems (in vivo/ex vivo) to enable deep insights into neuronal and other brain cell type pathobiology. As part of the Diseases of Aging and Regenerative medicine (DARe) disease area within Biomedical Research you will contribute to our global research efforts to elucidate and target the molecular mechanisms underlying neurodegenerative diseases to develop pharmacological interventions for patients.

The role involves strong collaboration across the DARe In-vivo Physiology, In-vitro Biology and Data Science teams as well as collaborating with scientists from the Neuroscience disease area to drive our research goals.

### Major Accountabilities

Your responsibilities include, but are not limited to:

- Managing a small *in vivo* laboratory team, designing and conducting state-of-the-art *in-vivo* mouse and rat experiments in support of research aiming to develop novel therapeutics for age-related neurodegenerative diseases with a particular focus on Alzheimer's disease.
- Mentoring and career development of direct reports.
- Conducting cutting edge research on the pathophysiological changes in neurons and other CNS cell types, including synaptic dysfunction, and metabolic changes in aging and disease.
- Working at the interface between *in-vitro* biology, integrated pharmacology, aging and disease research and collaborating with a wide range of scientific experts globally across Novartis Biomedical Research to

deliver new and actionable therapeutic targets for drug discovery to develop innovative medicines addressing neurodegeneration.

- Supporting the identification of biomarker candidates, elucidating the mode of action of drugs and understanding cross-talk between CNS cell types and across brain subregions as well as with other organs to delineate disease trajectories and novel drug intervention strategies.
- Integrating laboratory research of *in vitro*, *in vivo* and *ex vivo* tissue and biofluid analyses applying a broad range of molecular and cellular techniques.
- Interpreting and presenting results in both written and oral format at project team meetings and to management decision boards.

What you'll bring to the role:

Essential:

- PhD with 3+ years post-doctoral research in neuroscience and hands-on experience in designing and conducting experiments with rodents, documented through publications.
- Accreditation for animal experimentation (LTK1/LTK2, FELASA B or equivalent).
- Deep knowledge of human and animal pathophysiology related to neurodegenerative diseases including Alzheimer's disease. Additional expertise in neuro-endocrine systems, metabolism and CNS tissue homeostasis is advantageous.
- Fluency in the handling and analysis of large datasets and integration of genomic, proteomic and metabolomic data into research.
- Highly motivated to learn more about targeting neurodegenerative diseases of aging and regenerative medicine.
- Proactive and dynamic attitude with a demonstrable inquisitive mindset and a proven ability to formulate, articulate, and critically evaluate scientific experiments.
- Excellent teamwork mindset and high aptitude to work and thrive in cross-disciplinary teams. High learning agility and a desire to be up to date with the latest *in vivo* methodology.
- Fluency in written and oral English with excellent communication skills.

Desirable requirements:

- Knowledge about aging biology.
- Experience in assessing pathophysiological cross-talk between different CNS cell types and CNS subregions as well as with peripheral organs.

### **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?

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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

Regulär

Shift Work

No

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