W2 Immune Mechanisms of Neurodegeneration

Criteria for selection:

Necessary:

- International visibility in the field of high-resolution single-cell procedures of immunocytes in neurodegenerative processes demonstrated in publications
- Research focus on immunocytes and the molecular mechanisms that control their differentiation and function in neurodegenerative diseases, especially in the peripheral immune system and in aging processes
- Experience in analyzing peripheral immunity in humans with neurodegenerative diseases and post-infectious complications in the development of biomarkers
- Expertise in the transcriptional and epigenetic examination of peripheral influences on the programming of immunocytes in the brain
- Acquisition of national and international third-party funding
- Experience in teaching and in providing academic support to employees
- Long-standing experience in interdisciplinary collaboration between the fields of medicine, life sciences, and bioinformatics
- Completed university studies in a relevant discipline

Desirable:

- Experience in standardizing single-cell analysis procedures for routine clinical practice with a focus on neurodegenerative diseases
- Long-standing expertise in flow cytometry, genomics, and single-cell OMICs techniques, as well as in managing a flow cytometry and genomics platform
- A connection to the research and clinical focus areas, especially of the ImmunoSensation Cluster of Excellence and other research networks of the Faculty of Medicine and University Hospital Bonn, other faculties at the University of Bonn, in particular the Life & Medical Sciences unit, and to non-university institutions