

Program in Image Guided Neurointerventions Seminar Series

Johannes Boltze, MD, PhD

Professor of Neuroscience

University of Warwick,
Coventry, UK



The idea of acute cerebroprotection and most recent insights from Stroke Therapy Academic Industry Roundtable (STAIR) XIII

Date: Monday, March 31, 2025

Time: 3:00 P.M.

Location: Frenkil Lecture Hall, Health Sciences Research Facility III

Faculty Host: Miroslaw Janowski, M.D., Ph.D.

Abstract: Although the advent of recanalization therapies, in particular endovascular thrombectomy, represents a therapeutic breakthrough in ischemic stroke, only a minority of patients can benefit from it and experience good functional outcome. The main reason for this is a swiftly declining penumbra for instance in those with insufficient collateral blood supply. Even transient protection of the penumbra to slow down infarct core growth may buy additional time for many patients to undergo recanalization with good outcome. This idea led to a renaissance of cerebroprotective approaches which may now be applied in an entirely novel row. The presentation will introduce the idea of acute cerebroprotection and how it may help to improve stroke outcome. The talk will also provide some insight into upcoming recommendations from the recent Stroke Therapy Academic and Industry Roundtable (STAIR) XII and XIII meetings including potential further avenues for translational research in the field.

Biosketch: Dr. Boltze is a physician and a neurobiologist working on neurovascular disorders such as ischemic stroke and cerebral small vessel disease. His research comprised the development of cell therapies and acute cerebroprotective approaches and considers the impact of frequent comorbidities contributing to neurovascular disorders. Before joining the University of Warwick in 2019, he was working for the German Fraunhofer society, Europe's largest non-profit organization for applied and translational research, for more than 13 years. At the Warwick School of Life Sciences, he is the director of the largest degree stream, Biomedical Science, comprising about 600 students. Dr. Boltze has published more than 200 peer-reviewed publications and book chapters and holds 6 patents. He is a current member of the STAIR group and the president of the International Symposium on Neuroprotection and Neurorepair (ISN&N). Dr. Boltze is also (one of two) Associate Editors for basic and translational science in STROKE - leading journal in this field.