

Dr. Alon Friedman is a Professor of Neuroscience and Dennis Chair in Epilepsy Research at Dalhousie University in Halifax and a Professor in the Department Brain and Cognitive Sciences, Physiology and Cell Biology at Ben-Gurion University of the Negev.

He completed his medical and doctoral training at Ben Gurion University and his post-doctoral training at the Hebrew University (Jerusalem), and in the Charitè Medical University in Berlin, Germany as an Alexander von-Humboldt fellow.

His research is focused on exploring the interactions between the vascular and neuronal systems within the CNS with specific focus on the involvement of microvascular pathology in the pathogenesis of injury-related epilepsy and neurodegeneration. His research groups bring together clinicians, MD-PhD students, molecular biologists, psychologists, mathematicians and engineers: Through a multi-disciplinary, collaborative and translational approach and wide range of methods the group works on the developing of new diagnostics of brain vascular pathologies and novel therapeutics to restore vascular integrity and allow restoration of neuronal functions. The labs are involved in both pre-clinical and clinical research with active collaborations with internationally-recognized groups in the US (Berkeley, Boston U), Dublin (Trinity College), Germany (Bonn and Berlin) and Italy (Milan).

With over 120 peer-reviewed publications, and more than 40 graduate students supervised in his labs, Dr. Friedman and his teams have significantly contributed to the understanding of mechanisms underlying dysfunction of the neuro-vascular unit and the role of the blood-brain barrier in the onset of epilepsy following brain injuries. Dr. Friedman has achieved different awards on his work, the most prominent are the international Michael prize for Epilepsy Research, Mercator Professorship at the Charité Medical University in Berlin and the Foulkes Foundation Research Award (London, UK).