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Memory-Related Induction Mechanisms Trigger Persistent Hyperexcitability of Nociceptors

Dr. Alexis Bavencoffe obtained his License, Master's and PhD degrees from the University of Sciences and Technologies of Lille (France). Developing a strong interest in the roles of ion channels in the generation and maintenance of pain, Alexis came for his postdoctoral training to the Department of Integrative Biology and Pharmacology at McGovern Medical School in 2010. He worked in the Michael Zhu lab and thereafter joined Carmen Dessauer's and Terry Walters' labs where he became instructor and as of today, Research Assistant Professor.

Alexis's research employs electrophysiological (patch-clamp) and behavioral approaches to define intracellular signaling pathways and neuroimmune signals that induce and maintain the pain-related nociceptor hyperactive state that drives neuropathic pain after spinal cord injury or peripheral nerve injury. These efforts have led to 17 scientific articles, 3 book chapters and over 35 communications at national and international meetings.