



**Raul Chavez-Valdez, MD, FAAP**

Associate Professor of Pediatrics

Division of Neonatology

Neuroscience Intensive Care Nursery Program, Co-Director

Dr. Raul Chavez-Valdez is an Associate Professor in the Department of Pediatrics at the Johns Hopkins University with extensive expertise in Developmental Neuroscience. His laboratory is focused in understanding the mechanisms of memory and cognitive impairments and emergence of psychopathology and neurodegeneration, which result from perinatal injury of the hippocampus and the limbic system. His ultimate goal is to tailor novel therapies to potentiate recovery and prevent disease manifestations after injury of the development brain. Dr. Chavez-Valdez's most extensive body of work is in neonatal hypoxia-ischemia (HI) and therapeutic hypothermia (TH), using a murine model. He has pioneered the concept that neonatal HI brain injury produces delayed disruption in the maturation of hippocampal GABAergic interneurons, not prevented by cooling and his lab has characterized the functional and electrophysiological deficits that follows neonatal hypoxia-ischemia and the role in late memory and cognitive deficit and neurodegeneration. He has a track record of external funding over the past 15 years and over 60 original science peer-reviewed publications in the field. Dr. Chavez-Valdez is a founding member and co-director of the Johns Hopkins University Neuroscience Intensive Care Nursery and Fellowship Programs, which fosters translational research in the field.