

Tallie Z. Baram, MD, PhD

Tallie Z. Baram, MD, PhD is a Professor of Pediatrics, Anatomy/Neurobiology, Neurology and Physiology/Biophysics at the University of California-Irvine, CA, USA, and the Danette Shepard Professor of Neurological Sciences. Baram is a neuroscientist and child neurologist who is focusing her efforts on the developing brain. Baram's group has made enormous contributions to our understanding of the effects of early-life experience on normal brain function and the contributions of early-life adversity and seizures to neuropsychiatric disorders.

Studying how early-life experience and stress influence brain development and later-life mental and emotional outcomes in rodent models, Baram's group focuses on cognitive and emotional outcomes. Students in the lab employ state-of the art live imaging and targeted manipulation of gene expression in time and space to understand how early-life environment may lead to enduring synaptic impairments and memory and emotional problems. The group employs molecular and epigenetic techniques to examine how stress and clinically-relevant seizures early in life orchestrate enduring gene expression programs resulting in abnormal neuronal function and vulnerability to neuropsychiatric disorders.

Baram's research contributions have been recognized by prestigious awards including AES Basic Science Research Award, NIH NINDS Javits Merit Award and the CNS Sachs Award, and she has chaired NIH study sections. Baram has enjoyed mentoring numerous students who are now contributing independently to Neuroscience research.