CANCER GRAND CHALLENGES

Team: CANCAN

The Cancer Cachexia Action Network presents a seminar by:

Dr. Daniel Marks

HYPOTHALAMIC MECHANISMS OF CACHEXIA

Abstract: ***Cachexia is common in cancer patients and has a devastating impact upon physical function, quality of life, and survival. We, along with others, demonstrated that signaling between tumor and the central nervous system (CNS) is critical for the metabolic, behavioral, and neuroendocrine dysfunction observed during tumor growth. We determined that the mediobasal hypothalamus (MBH) is uniquely equipped as both a sensor and amplifier of peripheral inflammatory signaling. This region has an attenuated, dynamic blood brain barrier and contains specialized cells that regulate appetite, endocrine function, and the autonomic nervous system. This talk will describe the role of persistent activation of MBH neurons regulating autonomic tone and neuroendocrine stress responses in the evolution of cancer cachexia.***

Date: March 24, 2023

Time: 8:00 a.m.-10:00 a.m.(ET)

For a meeting invite please email:
Sean Parnell at srp87@cinj.rutgers.edu

Daniel L. Marks M.D., Ph.D. received medical and graduate training at the University of Washington, then completed his pediatric residency at the University of Utah, and a fellowship in pediatric endocrinology at OHSU. He is currently Senior Associate Dean for Research, Professor in Pediatric Endocrinology, Ray Hickey Chair for Pediatric Research, Director of the Papé Family Pediatric Research Institute, and Associate Director of the OHSU MD PhD program. His work is focused on the neuroendocrine control of body weight. He has a particular interest in pediatric weight regulation, including obesity, failure to thrive, and disease-associated cachexia. Dr. Marks also served as a Senior Scientific Advisor for the Bill & Melinda Gates Foundation.

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