



The Cancer Cachexia Action Network presents a seminar by:

Dr. Ayelet Erez

**Targeting the tumor MACROenvironment to improve
Cancer Cachexia (CAC) diagnosis and therapy**

Abstract: Cancer induces metabolic reprogramming within the tumor, its microenvironment, and its host, reaching the extreme with cancer-associated cachexia (CAC) at the end stage. While significant efforts invested in translating metabolic changes in the tumor and its microenvironment led to improved cancer patient care, it did not yield efficient biomarkers or treatment modalities for CAC.



Date: Friday, February 10, 2023

Time: 9:00 a.m.-11:00 a.m. (ET)

For a meeting invite please email:

Sean Parnell at

srp87@cinj.rutgers.edu

Dr.Erez earned a BSc and MD, cum laude, at the Technion-Israel Institute of Technology (1991 and 1994), followed by a year of rotating internship at the HaEmek Hospital, in Afula. She served as a pediatric resident at the Safra Children's Hospital in the Sheba Medical Center in Tel Aviv between 1995 and 2000 and earned a PhD in cancer genetics from the Tel Aviv University in 2005. She completed an American Board of Medical Genetics Clinical Genetics residency program together with a postdoctoral fellowship at Baylor College of Medicine in Houston, Texas in 2008. She then worked as an assistant professor of Molecular and Human Genetics at Baylor College of Medicine and as a medical geneticist at Texas Children's Hospital. She joined the Weizmann Institute's Department of Biological Regulation in 2012. The focus of her research is to understand the metabolic mechanism of the disease and to identify the differences between the healthy and diseased cell. Understanding these mechanisms can offer a means to improve the ability to diagnose and treat these diseases. Ayelet's laboratory has identified changes in the body fluids of cancer patients which may be utilized to detect and monitor disease progression. Her basic research is now delving into the complex metabolic pathways that integrate amino acid/nitrogen metabolism and glucose/oxidative stress. This includes searching for novel genes involved in cancer metabolism. She is in the process of establishing a pediatric cancer genetic clinic in Israel to nurture the bridge from scientific discoveries to new treatments, and to use clinical experience to guide scientists.

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