

**Translating Energy Balance From Bench to Communities: Application of Parallel Animal-Human Studies in Cancer**  
**July 8-10, 2021**  
**Virtual Conference**

Day 1 (Thursday, July 8)

10:00AM-3:35PM\* (does not include Twitter Session hours)

**Twitter Poster Session**

9:00 am – 10:00 am

**Welcome and Keynote Address**

10:00 am – 11:10 am

10:00 am-10:15 am: Welcome

10:15 am – 11:10 am: Keynote Address: Transdisciplinary and Translational Approaches to Energy Balance and Cancer Research (Melinda Irwin, PhD, MPH; Yale University)

**Lightning Poster Session**

11:20 am – 11:50 am

**Session 1: Nutrition**

Noon – 1:45 pm

12:00 Introduction (Carrie Daniel-MacDougall, PhD, MPH; MD Anderson Cancer Center)

12:05 Defining nutritional and circadian parameters for enhancing leukemia therapy (Joya Chandra, PhD; MD Anderson Cancer Center)

12:25 Impacting Energy Balance in Human Studies: Intensity, Personalization, and Maintenance (Steven Clinton, MD, PhD; The Ohio State University)

12:45 Reverse translation in nutrition- from observation to mechanism to intervention (Jennifer McQuade, MD; MD Anderson Cancer Center)

1:05 Short talk selected from abstracts

1:20 Moderated Panel Discussion

Moderator: Carrie Daniel-MacDougall, PhD, MPH; MD Anderson Cancer Center

**Break**

1:45 pm – 2:00 pm

**Session 2: Physical Activity and Exercise**

2:00 pm - 3:35 pm

2:00 Introduction (Kathryn Schmitz, PhD, MPH; Penn State Cancer Institute)

2:05 Exercise impacts tumor biology and treatment efficacy: evidence in mice and men (Keri Schadler, PhD; MD Anderson Cancer Center)

2:25 Clinical studies of exercise and cancer treatment response (Kerry Courneya, PhD; University of Alberta)

2:45 Use of Companion Dogs with Cancer for Parallel Clinical Trials (Mark Dewhirst, DVM, PhD; Duke University School of Medicine)

3:05 Short talk selected from abstracts

3:10 Moderated Panel Discussion

Moderator: Kathryn Schmitz, PhD, MPH; Penn State Cancer Institute

**Twitter Poster Session**

3:45 pm – 8:00 pm

Live Twitter discussion

Day 2 (Friday, July 9)

10:00AM–4:00PM

### Session 3: Body Composition

10:00 am – 11:35 am

10:00 Introduction (Moderator)

10:05 Increased Physical Activity Delays Development of Obesity-Induced Pancreatic Ductal Adenocarcinoma and Modulates Inflammation (Zobeida Cruz-Monserrate, PhD; The Ohio State University Wexler Medical Center)

10:25 Focus on Visceral Adipose with Weight Loss Interventions in Obese Breast Cancer Survivors (Carol Fabian, MD; University of Kansas Medical Center)

10:45 Breaking the Obesity, Inflammation, Breast Cancer Connection (Andrew Dannenberg, MD; Weill Cornell Medicine)

11:05 Short talk selected from abstracts

11:10 Moderated Panel Discussion

Moderator: Robert Chapkin, PhD, MSc; Texas A&M University

### Break

11:35 am – Noon

### Lunch/Cancer Prevention and Control Grand Rounds

12-1:00 pm

Keynote: Synergism in Mechanisms of Diet and Exercise in Cancer (Stephen Hursting, PhD; University of North Carolina)

### Lightning Poster Session

1:10 pm – 1:40 pm

### Hot Topics

1:50 pm – 2:40 pm

1:50 pm – 2:15 pm

- Microbiome - Florencia McAllister, MD; MD Anderson Cancer Center + Carrie Daniel-MacDougall, PhD, MPH; MD Anderson Cancer Center
- Immune Response - Jennifer McQuade, MD; MD Anderson Cancer Center + Emily LaVoy, PhD; University of Houston

2:15 pm – 2:40 pm

- Metabolomics – Philip Lorenzi, PhD; MD Anderson Cancer Center + Robert Chapkin, PhD; Texas A&M University
- Innovative research designs and measures for clinical studies - Johanna Lampe, PhD, RD; Fred Hutchinson Cancer Research Center + Kirsten Ness, PT, PhD, FAPTA; St. Jude Children's Research Hospital

### Session 4: Moving energy balance research toward clinical practice change

2:50 pm – 4:00 pm

2:50 Introduction

2:55 Focus on controversies in clinical practice re: nutrition (Wendy Demark-Wahnefried, PhD, RD; The University of Alabama at Birmingham)

3:15 Focus on controversies in clinical practice re: exercise (Neil Iyengar, MD, Memorial Sloan Kettering Cancer Center)

3:35 Panel Discussion “Level of evidence needed to change clinical practice”

Moderator: Nigel Brockton, PhD; American Institute for Cancer Research

## Day 3 (Saturday, July 10): Career skill building for early-stage investigators and trainees

9:00AM-1:00PM

### **Mentoring Office Hours**

9:00 am – 1:00 pm

Attendees will be able to schedule 30-minute slots with mentors to meet individually or in small groups.

Mentors include:

- Melinda Irwin, PhD, MPH; Associate Dean of Research and Professor of Epidemiology; Yale University
- Robert Chapkin, PhD, MSc; Allen Endowed Chair in Nutrition and Chronic Disease Prevention; Texas A&M University
- Johanna Lampe, PhD, RD; Member and Associate Director Public Health Services Division; Fred Hutchinson Cancer Research Center
- Andrew Dannenberg, MD
- Stephen Hursting, PhD; Professor, Department of Nutrition; University of North Carolina
- Mark Dewhirst, DVM, PhD; Professor of Radiation Oncology; Duke University School of Medicine
- Karen Basen-Engquist, PhD, MPH; Professor; Behavioral Science; Co-Director, Center for Energy Balance in Cancer Prevention and Survivorship
- Steven Clinton, MD, PhD; Professor, Internal Medicine, The Ohio State University

### **Specific Aims Workshop**

10:00 am – 11:50 am

Specific Aims Workshop for Trainees - This session will be aimed at trainees and early-stage investigators who are writing their first grant. The workshop will be led by Mark Dewhirst, DVM, PhD, prior Associate Dean of Faculty Mentoring Duke University School of Medicine 2011-2016. Dr. Dewhirst is trained in and has experience leading Specific Aims workshops for trainees and young investigators.

### **Career Building**

11:00 am – 12:10 pm

11:00 am – 11:20 am Identifying appropriate collaborators from other fields (Melinda Irwin, PhD, MPH; Yale University)

11:20 am – 11:40 am Effective transdisciplinary communication (Carrie Cameron, PhD; MD Anderson Cancer Center)

11:40 am – 12:10 pm *Funding opportunities and Closing Remarks*