

9th Annual Obesity Research Incubator Session

Friday, May 14th, 2021
1:00 – 4:15PM ET || Virtual



BRIGHAM AND
WOMEN'S HOSPITAL

BRIGHAM RESEARCH INSTITUTE

AGENDA

1:00PM

Poster Session

2:00PM

Welcoming Remarks

Marie McDonnell, MD

Co-chair of the Cardiovascular, Diabetes and Metabolic Disorders Research Center

2:05PM

Featured Short Talks

Deciphering the Kisspeptin-Melanocortin Pathways Underlying the Regulation of Energy Expenditure

Rajae Talbi, PhD

High-Fat Diet Causes Rapid Loss of Intestinal Group 3 Innate Lymphoid Cells Through Microbiota-Driven Inflammation

Selma Boulenouar, PhD

Discovery and Validation of a Saliva Metabolomic Signature of Insulin Resistance and Diabetes Progression Among Puerto Rican Adults

Danielle Haslam, PhD

3:00PM

Keynote Address

Circadian system effects on obesity and metabolism

Frank A.J.L. Scheer, PhD

Professor of Medicine at Harvard Medical School

Director of the Medical Chronobiology Program at Brigham and Women's Hospital

4:00PM

Awards Ceremony

This event is hosted by the Brigham Research Institute's Cardiovascular, Diabetes, and Metabolic Diseases (CVDM) Research Center.

[Event Website](#)

[Virtual Poster Session](#)

[Zoom Webinars](#)

KEYNOTE SPEAKER

Frank A.J.L. Scheer, PhD



Frank A.J.L. Scheer, PhD is Professor of Medicine at Harvard Medical School (HMS) and the Director of the Medical Chronobiology Program (MCP) at Brigham and Women's Hospital (BWH), Boston. Dr. Scheer's work focuses on influences of the endogenous circadian system and its disruption—such as with shift work—on cardiovascular, pulmonary, and metabolic regulation and disease states, including hypertension, asthma, obesity and diabetes. Since 2005, Dr. Scheer has been funded continuously as Principal Investigator by the National Institutes of Health (NIH). Dr. Scheer has received numerous scientific awards, including the Young Investigator Award by the American Academy of Sleep Medicine, the Neal Miller Award by the Academy of Behavioral Medicine Research, and the Outstanding Scientific Achievement Award by the Sleep Research Society. Dr. Scheer is an Editorial Board Member of several peer-reviewed journals, is an Associate Editor at the journal SLEEP, and is a Member the Board of Directors of the Sleep Research Society.

Dr. Scheer co-founded and currently directs the MCP, an interdisciplinary research program at BWH to foster the translational research in sleep and circadian biology to understand the basis behind time-variant changes in disease severity, the effects of circadian misalignment (typical in night shift workers), and their interaction with genetics (e.g., the common MTNR1B variant). Understanding the biological basis of these changes across the day and night and their interaction with genetics may help in the development of personalized and time-based behavioral, environmental, and pharmaceutical interventions (e.g. appropriately timed meals, exercise or melatonin to target specific phases of the body clock) to prevent, treat, and/or manage disease.

POSTER PRESENTERS

Hyeon Min Ahn, PhD | BWH

Poster #1, 1st Floor

"The association between body mass index and hypothalamus functional connectivity in response to acute psychosocial stress"

Maria Barrachina, PhD | Boston Children's Hospital, HMS

Poster #2, 1st Floor

"Fatty acid metabolism alteration leads to an impair MKs differentiation and platelet production"

Alexander Blood, MD | BWH

Poster #3, 1st Floor

"Reimagining Obesity Care"

Jessica Busler | BWH

Poster #4, 1st Floor

"Fractional Amplitude of Low-frequency Fluctuations and Insulin Resistance in Postmenopausal Women with and without Obesity"

Joanne Cole, PhD | MGH

Poster #5, 1st Floor

"Comprehensive genomic analysis of dietary intake elucidates relationships with metabolic disease"

Yann Cormerais, PhD | Harvard T. H. Chan School of Public Health

Poster #6, 1st Floor

"Genetic dissection of the insulin-Akt-mTORC1 pathway for systemic metabolism and insulin resistance"

Sudeshna Fisch, PhD | BWH

Poster #7, 1st Floor

"A basic translational roadmap to understanding DAPA's mechanism of action in the heart"

Dinah Foer, MD | BWH

Poster #8, 1st Floor

"Glucagon-like peptide-1 receptor agonists decrease platelet-mediated airway inflammation"

Renuka Haridas, BVSc, PhD | BWH

Poster #9, 1st Floor

"Sleeve gastrectomy alters adipose tissue B cell biology independent of weight"

Frances Hu, MD, MSc | BWH

Poster #10, 1st Floor

"Implementing a Bariatric Surgery Digital Intake System for Prospective Collection of Patient-reported Outcome Measures"

Nawfal Istfan, MD, PhD | BWH

Poster #11, 1st Floor

"Redox Model of Insulin Actions"

Britta Kunkemoeller, PhD | BWH

Poster #1, 2nd Floor

"The source of dietary fat, not obesity alone, shapes the tumor microenvironment and alters tumor growth"

Jasmin Lebastchi, MD | Brown, BWH

Poster #2, 2nd Floor

"Obesity, Diabetes and Hospitalization for COVID-19 Infection"

Junwei Li | BWH

Poster #3, 2nd Floor

"Gastrointestinal synthetic epithelial linings for nutritional modulation"

James Luo, MD | BWH

Poster #4, 2nd Floor

"Sleeve gastrectomy promotes colitis-associated cancer via a modified microbiome"

Claire McIntyre, PhD | BWH

Poster #5, 2nd Floor

"Lipid metabolism fuels IL-17+ $\gamma\delta$ T cells in obesity and the tumour microenvironment"

Christopher Murray, MD, MBA | BWH, MGH

Poster #6, 2nd Floor

"Assessing the feasibility and acceptability of an ED-initiated Screening, Brief Intervention and Referral to Treatment (SBIRT) approach applied to poor nutrition and lifestyle"

Kazuma Oyama, MD, PhD | BWH

Poster #7, 2nd Floor

"Obesity and effects of dapagliflozin on cardiovascular and renal outcomes in patients with type 2 diabetes mellitus in the DECLARE-TIMI 58 trial"

Adriana Panayi, MD | BWH

Poster #8, 2nd Floor

"Amniotic Membrane Treatment of an Oxidative Stress Murine Chronic Diabetic Wound Model"

Karine Suissa, PhD | BWH

Poster #9, 2nd Floor

"Validation of BMI-related diagnosis codes in claims data"

Chunlei Tang | BWH

Poster #10, 2nd Floor

"Evaluating Fairness Criteria in Obesity Subgroups to Assess Risk for Incident Diabetic Complications"

Wubin Xie, DrPH | BU

Poster #11, 2nd Floor

"Bariatric Surgery and Weight Loss: Evidence from a US National Sample 2015-2018"

Hui-Wen Yang, PhD | BWH

Poster #12, 2nd Floor

"Daily rhythm of fractal cardiac dynamics links to weight loss resistance: interaction with CLOCK3111T/C genetic variant"