The Neurobiology of Eating Behavior in Obesity: Mechanisms and Therapeutic Targets

23rd Annual Harvard Nutrition and Obesity Symposium | June 8, 2022

8:30-8:45am Introduction: Steve Grinspoon, MD, Harvard Medical School
8:45-9:30am George L. Blackburn Keynote Lecture: Biology of Appetite
Sadaf Farooqi, PhD, FRCP, FMedSci, FRS, University of Cambridge

Session I: Pathways Governing Eating Behavior
Moderators: Vibha Singhal, MD, MPH and Frankie Heyward, PhD, Harvard Medical School

9:30-9:55am The Neural Basis for Hunger
Bradford B. Lowell, MD, PhD, Beth Israel Deaconess Medical Center

9:55-10:20am Integration of Endocrine and Neuroimaging Techniques to Evaluate Food Motivation
Laura Holsen, PhD, Brigham and Women’s Hospital

10:20-10:45am Gut-brain Communication in Control of Appetitive Behavior
Ivan E. de Araujo, DPhil, Icahn School of Medicine at Mount Sinai

10:45-11:00am Questions

11:00-11:15am Break

11:15-11:40am Inflammatory Modulators of Food Consumption and Endocrine Action
Ellen Schur, MD, MS, University of Washington

11:40-12:05pm Gut Microbiota as a Key Regulator of Brain & Behaviour: Relevance to Obesity
John F. Cryan, PhD, MRIA, University College Cork

12:05-12:30pm Why did I eat that? Alterations in Brain and Behavior Contributing to Obesity
Carrie Ferrario, PhD, University of Michigan

12:30-12:45pm Questions

12:45-1:30pm Lunch

Session II: Targeted Interventions to Modulate Pathways
Moderators: Carmen Monthé-Drèze, MD and Franziska Plessow, PhD, Harvard Medical School

1:30-1:55pm Lessons from Bariatric Surgery
Ali Tavakkoli, MD, Brigham and Women’s Hospital

1:55-2:20pm GLP-1 Analogues: Mechanisms for Appetite Effects
Jamy Ard, MD, Wake Forest School of Medicine

2:20-2:45pm Intranasal Oxytocin Effects on Food Intake
Elizabeth Lawson, MD, MMSc, Massachusetts General Hospital

2:45-3:00pm Questions

3:00-3:15pm Break

3:15-3:40pm Effects of Transcranial Stimulation on Eating Behaviors and Weight
Marci E. Gluck, PhD, NIH/NIDDK, Phoenix Epidemiology & Clinical Research Branch

3:40-4:05pm Mechanisms of Compulsive Eating in Obesity
Paul Kenny, PhD, Icahn School of Medicine at Mount Sinai

4:05-4:20pm Questions

4:20-4:30pm Closing

All times listed above are in Eastern Standard Time.