

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

23<sup>rd</sup> 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.***