

# 2023 Houston Nutrition & Obesity Symposium

November 4, 2023 (Saturday)

Beth Robertson Auditorium, Sarofim Research Building, 1825 Pressler Street, Houston

8:30 - 8:40 Welcome and Introduction of H-NORC

## 8:40 - 9:30 Keynote Address

**Robert H. Eckel**, MD, FAHA, FACC, FNLA, University of Colorado  
*Metabolic Pathways that Contribute to Cardiometabolic Diseases*  
*- My Professional Journey*

## 9:30 - 10:45 Muscle biology in exercise and obesity

- Chair: **Dennis Villareal** (BCM)
- 9:30 - 9:35 **Gary Kurc** (TSE)  
Latest innovations at TSE systems
- 9:35 - 9:50 **Vihang Narkar** (UTH)  
Exercise mimetic pathways in obesity-linked ischemic disease and myopathy
- 9:50 - 10:05 **Layla Abushamat** (BCM)  
Muscle mitochondrial respiration and cardiorespiratory fitness in people with type 2 diabetes and obesity
- 10:05 - 10:20 **Seung-Hee Yoo** (UTH)  
Regulation of mitochondrial bioenergetics and function by a circadian E3 ligase pathway
- 10:20 - 10:35 **Zheng Sun** (BCM)  
Muscle circadian clock, exercise time, obesity paradox
- 10:35 - 10:45 **Viola Viola** (BCM)  
Testosterone modulation of muscle transcriptome profile during intensive lifestyle intervention in older men with obesity and hypogonadism
- 10:45 - 11:00 Coffee break

## 11:00 - 12:15 Central regulation of energy balance

- Chair: **Ben Arenkiel** (BCM)
- 11:00 - 11:05 **Alice Qin** (RWD)  
RWD: ReWarD customers through technology, quality and talents
- 11:05 - 11:20 **Qingchun Tong** (UTH)  
Stress and obesity
- 11:20 - 11:35 **Makoto Fukuda** (BCM)  
Rap1-dependent neural pathway mediates therapeutic effects of metformin
- 11:35 - 11:50 **Yang He** (BCM)  
A food odor-responsive subicular circuit suppresses feeding
- 11:50 - 12:05 **Stephanie Sisley** (BCM)  
Translating clinical obesity questions
- 12:05 - 12:15 Hailan Liu (BCM)  
A basal forebrain neural population promotes homeostatic feeding and suppresses hedonic feeding

**12:15 - 14:15 Poster and lunch**

**14:15 - 15:30 Clinical aspects of obesity and nutrition**

- Chair: Mandeep Bajaj (BCM)
- 14:15 - 14:20 GemPharmatech
- 14:20 - 14:35 **Justin Gregg** (MD Anderson)  
Dietary quality, metabolism, and localized prostate cancer progression
- 14:35 - 14:50 **Samer Mattar** (BCM)  
Research opportunities in metabolic surgery
- 14:50 - 15:05 **Fida Bacha** (BCM)  
Obesity, insulin resistance and cardiometabolic risk in youth
- 15:05 - 15:20 **Absalon Gutierrez** (UT Houston)  
GLP1 analogs: effects are mediated by thermogenic interleukin-6 signaling in adipose tissue
- 15:20 - 15:30 **Hanyue Liao** (UH)  
Impacts of bariatric surgery on clinical pharmacokinetics/pharmacodynamics (PK/PD) of metformin and statins among Caucasian, African American and Hispanic American populations
- 15:30 - 15:45 Coffee break

**15:45 - 17:00 Hepatic pathology and function under nutrient challenge and metabolic disease**

- Chair: **Kristin Eckel Mahan** (UTH)
- 15:45 - 15:50 ABclonal
- 15:50 - 16:05 **Jeanine Van Nostrand** (BCM)  
Metabolic regulation by AMPK in hepatocellular carcinoma
- 16:05 - 16:20 **Kangho Kim** (UTH)  
The hepatokine orosomucoid 2 improves the metabolic phenotype of obesity
- 16:20 - 16:35 **Mark Herman** (BCM)  
Fructose metabolism and metabolic disease
- 16:35 - 16:50 **Dongyin Guan** (BCM)  
Exploring the genetics of obesity around the clock
- 16:50 - 17:00 **Susheel K. Gunasekar** (TAMU)  
Differential expression of long noncoding RNA DLEU2 in siblings influence hepatic insulin and lipogenesis program in a murine transgenerational study
- 17:00 - 17:15 Coffee break

**17:15 - 18:30 The multiple roles of adipose tissue in metabolic and endocrine disease**

- Chair: **Aaron An** (UTH)
- 17:15 - 17:20 **Kenny Nguyen** (Vazyme)  
Key account
- 17:20 - 17:35 **Yi Zhu** (BCM)  
Engineering FGF21 to treat obesity and type 2 diabetes
- 17:35 - 17:50 **Mikhail Kolonin** (UTH)

- Cell type-specific roles of telomerase in metabolism: adipose tissue and beyond
- 17:50 - 18:05 **Heather Caslin** (UH)  
Do adipose macrophages remember obesity? Immunological memory in weight cycling
- 18:05 - 18:20 **Robert Yang** (UTH)  
Phospholipids and adipose tissue development
- 18:20 - 18:30 **Elizabeth Anaya** (BCM)  
Functional white adipose tissue mass is required for estrous cycling
- 18:30 - 18:35 Closing remarks