THE UNIVERSITY OF ARIZONA
College of Medicine
Tucson

Endocrinology, Diabetes, and Metabolism Didactic Series
November 14, 2023, 3:00-4:00pm
COM Room 5403

SPEAKER: Diego Perez-Tilve, PhD

University of Cincinnati-College of Medicine.

TOPIC: "Differential Control of Glucose Metabolism by GPCR Signaling Pathways in Hypothalamic AGRP Neurons."

Outcome Objectives:

- Hypothalamic Agouti Related Protein (AGRP)-expressing neurons simultaneously, but independently, control feeding behavior and whole-body glucose homeostasis.
- Specific GPCRs (G-protein coupled receptors) signaling pathways determine the control of glucose homeostasis by AGRP neurons.
- Different branches of the Autonomic Nervous System mediate specific effects of AGRP neurons on glycemic control.

Dr. Diego Perez-Tilve is a Research Associate Professor at the Department of Pharmacology and Systems Physiology of the University of Cincinnati-College of Medicine.

He received a PhD in Neuroendocrinology at the University of Vigo, Spain.

His laboratory investigates the neural circuits involved in the control of energy balance in response to circulating signals such as ghrelin, leptin or GLP-1, and how the effect of those signals can be harnessed to develop therapies to treat Obesity and Diabetes. His research has been supported by intramural funds from the UC-College of Medicine, the National Institutes of Health and by research collaborations with pharmaceutical companies including Novo Nordisk, MBX Biosciences, Cohbar Inc, Calibrium LLC and Hoffmann-La Roche AG.