Program

Theme: Gut chemosensory system and the interaction between enteroendocrine cells and visceral afferent nerves.

(Presentation 1)
**Nutrient chemosensation by GPCRs and the activation of gastrointestinal hormone secretion**
*By Alice P. Liou*
Obesity, Metabolism, and Nutrition Institute and Gastrointestinal Unit, Massachusetts General Hospital

(Presentation 2)
**Physiological roles of dietary glutamate signaling via gut-brain axis due to efficient digestion and absorption**
*By Kunio Torii*
Institute for Innovation, Ajinomoto Co., Inc.

Theme: Involvement of gut chemosensing on gut growth, motility, and metabolism

(Presentation 3)
**Intestinal bile acid sensing is linked to key endocrine and metabolic signaling pathways**
*By Douglas Burrin, Barbara Stoll, and David Moore*
USDA Children's Nutrition Research Center, Section of Gastroenterology, Hepatology, and Nutrition, Department of Pediatrics, Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX

Theme: Involvement of gut chemosensing on the regulation of mucosal barrier function and defense mechanisms

(Presentation 4)
**Luminal nutrients augment duodenal mucosal defense mechanisms**
*By Jonathan Kaunitz\(^1\)\(^4\) and Yasutada Akiba\(^2\)\(^4\)\(^5\)*
\(^1\)Department of Medicine, Greater Los Angeles VA Health Care System
Departments of \(^2\)Medicine and \(^3\)Surgery, UCLA School of Medicine. \(^4\)CURE: Digestive Diseases Research Centre. \(^5\)Brentwood Biomedical Research Institute
Theme: Involvement of gut chemosensing on the regulation of nutrient absorption and energy supply

(Presentation 5)
There is more to taste receptors than glucose – an intestinal nutrient transporter network to control energy supply is mediated by taste receptors
By Oliver J. Mace
Heptares Therapeutics, Biopark, Welwyn Garden City, UK

Theme: Involvement of gut chemosensing on the regulation of nutrient absorption and energy supply

(Presentation 6)
Gut chemosensing and the control of food intake in humans
Robert E. Steimert and C. Beglinger
Department of Biomedicine, Division of Gastroenterology, University Hospital Basel, Switzerland

Theme: Applications of gut chemosensing to manage gut integrity, feed intake, and metabolism in pigs

(Presentation 7)
Potential Applications of Knowledge of Gut Chemosensing in Pig Production
By Y. Liu¹, I. Ipharraguerre² and J.E. Pettigrew¹
¹Department of Animal Sciences, University of Illinois, IL
²Lucta S.A.