

Research Topics:

Role of GPR173 in the central control of plasma volume expansion in pregnancy.

Identification and validation of potential therapeutic targets to restore alpha cell function.

Impact of GLP-1 agonists on fertility, pregnancy, and postnatal outcomes in the setting of obesity.

Discovery and validation of a novel orphan GPCR as a target for therapeutic intervention in neuropathic pain .

Techniques:

Immunoassay, cell culture, whole animal integrative physiology, neuroanatomy, behavioral monitoring, small animal surgery

Contact Information:

Willis Samson

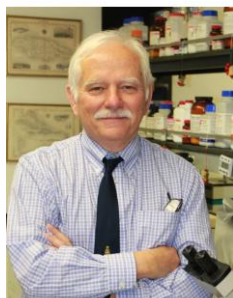
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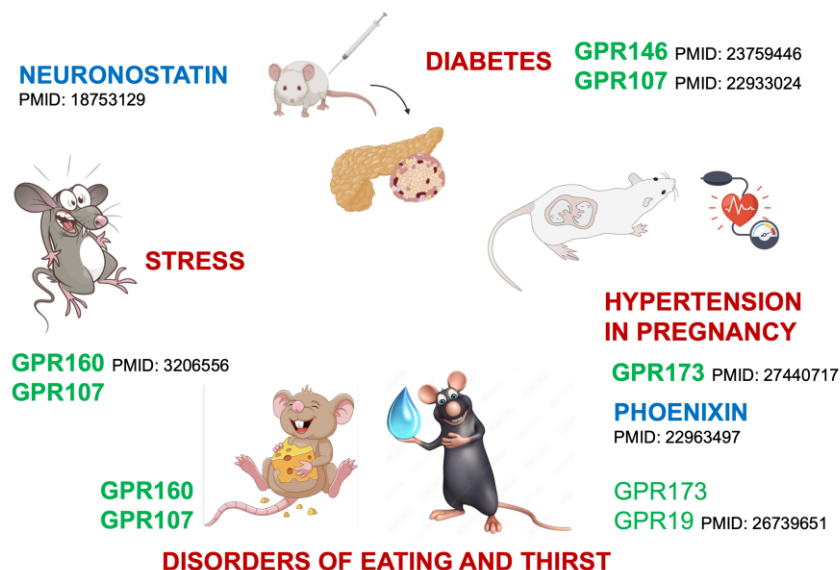
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Funding:

NICHD 1R01HD115550-01A1 Role of GPR173 in the central control of plasma volume expansion in pregnancy.
Dates: 09/01/2025 to 06/30/2030.



We **discover novel hormones** and deorphanize their **cognate, G protein-coupled receptors** in order to understand the physiological basis of health and the pathophysiology of human disease.



Keywords:

Peptide discovery, receptor ligand matching, neuroendocrinology, reproduction, ingestion, integrative physiology

Publications and Recognitions:

<https://scholar.google.com/citations?user=zp1DQSAAAAAJ&hl=en&oi=sra>

96th President, The American Physiological Society

30th President, Society for the Study of Ingestive Behaviors

Former Editor in Chief, American Journal of Physiology

Deputy Editor in Chief, Physiological Reviews

Founding Director, The Cayman Peptide Conferences