

The 29th Annual Winter Neuropeptide Conference
February 3rd – 6th, 2007

Saturday, February 3

3:45 PM Opening Remarks
John Quinn

**4:00 - 6:00 PM Role of Neurotransmitters/Neuropeptides in Regulation of
VP and OT Secretion**
Chairs: Celia Sladek & Bill Flynn

Celia Sladek, University of Colorado Health Science Center
Cardiovascular regulation of VP secretion: Neurotransmitters and
neuropeptides involved.

Francis (Bill) Flynn, University of Wyoming
Tachykinin NK3 receptor signaling: A final common path in vasopressin
and oxytocin hormone release.

Jan Urban, Rosalind Franklin University of Medicine and Science
Role in NPY in regulation of VP and OT secretion.

Steve Bealer, University of Utah
Neurotransmitters and neuropeptides controlling oxytocin release during
lactation.

6:00 - 7:00 PM Buffet Dinner

7:00 - 9:00 PM Regulation of Gene Expression
Chair: John Quinn

Noel Buckley, Kings College London
Transcriptional repression of neuronal genes: The REST regulon.

John Quinn, University of Liverpool
REST/REST 4 regulation of AVP and PPTA genes.

Ki-youb Park, University of Iowa
Transcriptional activation of the neuropeptide CGRP by upstream stimulatory
factor.

John Barrow, University of Aberdeen
Evidence for glucocorticoid mediated regulation of substance P expression in the
amygdala: A possible mechanistic link between chronic stress and anxiety.

Sunday, February 4

**8:30 - 10:30 AM Mechanisms of Neuropeptidergic Modulation of Behaviour
Chair: Scott R. Wersinger**

Scott Wersinger, University of Buffalo
Mechanisms of oxytocin's and vasopressin's behavioural effects.

Robert Ring, Wyeth-Ayerst Pharmaceuticals
Oxytocin receptor agonism and anxiolysis in rodents: Therapeutic implications.

James Goodson, University of California, San Diego
Vasotocin and the evolution of sociality.

Bruce Cushing, The University of Akron
Organizational effects of neuropeptides on the development of the brain.

**4:00 PM Super Bowl Gathering (non-hosted)
Base Nine (Club on first floor of Beaver Run)**

Monday, February 5

**8:30 - 10:00 AM Nasal Delivery of Peptides
Chairs: Mike Kubek & Leah Hanson**

Cory Toth
Intranasal insulin delivery to treat the diabetic brain and neuropathy.

Mike Kubek, Indiana University School of Medicine
Intranasal TRH delivery epilepsy.

Leah Hanson
Intranasal delivery of growth factors to the CNS.

4:00 – 6:30 PM Neuropeptides in pain. News on Basics and Clinics
Chairs: Bengt V. Mentzer & Mark Berner Hansen

Mark Berner Hansen

Neuropeptide receptors, pain and related diseases. Any news on how they link in in the viscera?

Vicente Martinez, AstraZeneca

Corticotropin releasing factor and urocortins: Are they important in gastrointestinal pathophysiology?

Bengt von Mentzer, AstraZeneca

Allosteric insurmountable neuropeptide receptor antagonist interactions. Is that a way to prolong effect?

Juan Carlos Marvizon, Greater Los Angeles VA Healthcare System

Calcitonin gene-related peptide (CGRP) receptors in the spinal cord: A role in controlling the release of opioids neuropeptides?

Andrew Russo, University of Iowa

Can we develop a mouse model for migraine?

6:30 - 7:30 PM Buffet Dinner

7:30 - 9:30 PM Why are opioids so different from psychostimulants as experimental tools to test abuse liability?

Chair: Alois Saria

Alois Saria, University of Innsbruck

Molecular pharmacodynamic differences between opioids and psychostimulants.

Gerald Zernig

Models of abuse liability that work for cocaine but fail for opioids.

Serge Ahmed

Self titration of cocaine in reward allostasis

Richard W. Foltin

Drug abuse patterns and subjective effects in humans: Psychostimulants vs opioids.

Tuesday, February 6

4:00 - 5:00 PM Special Presentations

Joseph H. Neale, Georgetown University

NAAG, the 3rd most prevalent neurotransmitter: brain injury, pain and schizophrenia.

Michael Michalkiewicz, Medical College of Wisconsin

Down-regulation of NPY receptor signalling by lentiviral shRNA gene transfer
In transgenic rat.

**5:00 - 6:00 PM Poster Session (light refreshments provided) and
Breaking News**

**6:00 - 7:30 PM Neuropeptides in the fetal and neonatal period
Chairs: Curt Sandman & David Somerset**

Quetzal Class

Exposure to maternal and placental peptides influences fetal development.

David Somerset, John Hunter Hospital

Placental neuropeptides, physiology and function.

Curt Sandman, University of California, Irvine

Fetal exposure to maternal and placental peptides influences human infant development.

8:00 PM Dinner at The Hearthstone Restaurant (additional fee required)