

WINTER 2005 SEMINAR SERIES

F21C BIOPROCESSING & BIOSENSING CENTER

• DIVISION OF FOOD SYSTEMS & BIOENGINEERING •

PRESENTER

Dr. Jacqueline Lee, Assistant Professor, Department of Biological Sciences at the University of Colorado, Boulder

TITLE

NeuroD: A Molecular Connection Between the Brain and Pancreas

ABSTRACT

Since discovering NeuroD about 10 years ago in a yeast two-hybrid screen, we have explored this basic helix-loop-helix (bHLH) transcription factor in: *Xenopus*, to study the gain-of-function phenotype; mice, to analyze the loss-of-function phenotype; and cell culture, to carry out biochemical and molecular analyses. We have found that NeuroD is critical for the development of the cerebellum, hippocampus, inner ear, and pancreas. In addition, recent biochemical analysis indicates that NeuroD is subject to post-translational regulation whose effects differ in different cellular context. I will discuss what we know about NeuroD at the molecular and functional levels.

DATE • TIME • LOCATION

March 15, 2005, Tuesday, 2-3 pm
Monsanto Auditorium, LSC

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