Biomedical Sciences Seminar

Cosponsored by Neuroscience

presents

“Aging causes a slowing in ciliary beat frequency mediated by PKCepsilon”

Guest Speaker: Kristina Bailey, MD
University of Nebraska

Thursday February 28th

WHEN: 12:00pm-1:00pm
WHERE: Vet Med Room 2226
HOST: Dr. Chandru

PIZZA SERVED IN FISH TANK LOBBY

Seminar Details

The elderly are four times more likely to develop pneumonia than younger age groups and nearly 90% of deaths due to pneumonia occur in those 65 or older. We know that mucociliary clearance is impaired in normal aging in humans, however the mechanisms of this slowing are unknown. We have recently established a mouse model of aging that allowed us to determine the mechanisms of ciliary slowing. Increases in protein kinase C epsilon (PKCepsilon) activity and expression of PKCepsilon protein play a role in the slowing of ciliary beat frequency (CBF) with age. These changes are recapitulated in human airway epithelial cells from older donors.

Next Week’s Speaker: Jay Reddy, MVSc

Topic: Multiple Facets of the molecular mimicry hypothesis in the causation of autoimmune diseases