DRTC Friday Seminar Series

Part of Vanderbilt DRTC's Weekly Seminar Series

Meeting Details

Start Date / Time	September 28, 2018 at 12:00 PM
End Date / Time	September 28, 2018 at 1:00 PM
Duration	1 hour(s)
Location	206 Preston Research Building
Presenter Name	Craig Beall, PhD
Presentation Title	The role of AMP-activated protein kinase in cellular low glucose sensing and whole body hypoglycaemia counterregulation
Status	This meeting is currently scheduled

Meeting Agenda/Notes

Hypoglycaemia in diabetes is still a frequent concern for people with diabetes and carries with it the increased risk of heart attacks, strokes and brain damage. The energy sensing enzyme, AMP-activated protein kinase (AMPK), is activated by glucose deprivation and has emerged as a critical regulator of whole body metabolism over the past 15 years, partly via central mechanisms. This talk will present findings that AMPK plays an important role in glucose-sensing cells including pancreatic beta cells and hypothalamic glucose excited neurons. We will also present data demonstrating that a novel brain permeable AMPK activator amplifies the counterregulatory response to hypoglycaemia in rats.