

Beta Cell Interest Group (BIG) Talk

Current and ongoing beta cell research is presented in this weekly seminar by faculty, postdoctoral fellows and students. If you are interested in attending the Beta Cell Interest Group (BIG) seminars and joining the BIG community, please contact [David Jacobson](#).

Keywords: beta cell

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Meeting Details

Start Date / Time	September 13, 2017 at 9:00 AM
End Date / Time	September 13, 2017 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Danielle Dean, PhD (Powers' laboratory)
Presentation Title	The hepatic-alpha cell axis
Status	This meeting has already occurred

Meeting Agenda/Notes

Recently, we demonstrated that when glucagon signaling is interrupted in the liver, hyperaminoacidemia (e.g. high L-glutamine) selectively stimulates alpha cell proliferation in the islet. Since L-glutamine and other amino acids also stimulate glucagon secretion, we hypothesize that hyperaminoacidemia-driven α -cell proliferation and glucagon secretion results from a high capacity for transport, metabolism, and sensing of L-glutamine and other amino acids. I will describe our current efforts to understand these mechanisms.