

# Beta Cell Interest Group (IBIG) Seminar

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](#) [BIG](#)

Expand

## Meeting Details

Start Date / Time	May 13, 2015 at 9:00 AM
End Date / Time	May 13, 2015 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Jennifer Stancill (Magnuson's lab)
Presentation Title	Aberrant Ca <sup>2+</sup> -signaling disrupts islet morphology and affects $\beta$ -cell identity
Status	This meeting has already occurred

## Meeting Agenda/Notes

It remains unclear how voltage-dependent and non-dependent signaling pathways in pancreatic  $\beta$ -cells contribute to their failure in Type 2 diabetes (T2D), and why mice lacking either *Abcc8* or *Kcnj11*, components of the ATP-sensitive potassium channel, exhibit progressive changes in islet morphology. I will discuss our findings about how lack of *Abcc8* affects islet morphology and cell identity as well as our progress toward profiling gene expression changes in  $\beta$ -cells with chronically elevated  $[Ca^{2+}]_i$  and how these gene expression changes may contribute to  $\beta$ -cell failure.