

Beta Cell Interest Group (BIG) talks

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	February 28, 2018 at 9:00 AM
End Date / Time	February 28, 2018 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Xiaodun Yang (Gu's laboratory)
Presentation Title	Sin3A is required to maintain pancreatic β -cell function and survival after birth
Status	This meeting has already occurred

Meeting Agenda/Notes

My talk mainly focuses on the roles of a transcription cofactor Sin3A (SWI-independent-3A) in β -cell function and survival. Sin3A can interact with transcription factors (TFs) to recruit chromatin-modifying enzymes to regulate the expression of target genes. Furthermore, Sin3A has been shown to interact with two TFs required for β -cell function and survival, MafA and Myt1, suggesting its potential roles in β cells. In my talk, I will first show the expression of Sin3A in pancreas at embryonic stages and after birth. Next, I will show the data of loss of Sin3A in pancreatic endocrine progenitors and in pancreatic progenitors. My data suggest that Sin3A is essential to maintain β -cell function and survival after birth.