

Beta Cell Interest Group (BIG) 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](#)

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Meeting Details

Start Date / Time	November 12, 2014 at 9:00 AM
End Date / Time	November 12, 2014 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Holly Cyphert (Stein)
Presentation Title	"The Characterization of MafB in Adult β -cells"
Status	This meeting has already occurred

Meeting Agenda/Notes

MafA and MafB have been identified as pancreatic islet-enriched transcription factors that regulate the development and function of mouse β -cells. MafB is first involved in promoting embryonic endocrine cells into adult rodent β -cells while MafA regulates insulin expression and secretion in the adult rodent β -cell. Notably, human adult β -cells express both MafA and MafB while mouse adult β -cells only express MafA. Information is limited as to why these factors are expressed differently between species. To understand the role of MafB (and the MafA/MafB heterodimer in adult β -cells), we have developed a mouse model that misexpresses MafB in the adult β -cell, along with MafA (termed MafBtg). This talk will highlight the characteristics of MafBtg model and the context and species-specific roles of MafA and MafB.