

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	September 3, 2014 at 9:00 AM
End Date / Time	September 3, 2014 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Eric Bankaitis (Wright)
Presentation Title	Morphogenesis and Differentiation in the Pancreatic Endocrine Progenitor Niche
Status	This meeting has already occurred

Meeting Agenda/Notes

Endocrine cells arise from a branched, remodeling epithelium throughout mouse pancreas development. During the “secondary transition” period of cellular differentiation, a specialized epithelial ‘trunk’ domain allocates endocrine (Ngn3+) or duct cell lineages from a common, bi-potent Sox9+ progenitor pool. While transcription factors that direct progenitors toward an endocrine fate are well studied, it remains unclear whether and how “niche” environments are organized and deployed within the trunk to regulate endocrine cell birth. I will present evidence that endocrine lineage allocation is sub-compartmentalized within the trunk, and discuss my ongoing effort to understand how the unique properties of this environment integrate morphogenesis and cellular differentiation.