

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: BIG beta cell

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Meeting Details

Start Date / Time	April 17, 2019 at 9:00 AM
End Date / Time	April 17, 2019 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	H. Efsun Arda, PhD (NIH/NCI)
Presentation Title	Elucidating genomic enhancer function in human pancreas cells
Status	This meeting has already occurred

Meeting Agenda/Notes

Determining the genetic and epigenetic factors involved in differentiation and maintenance of pancreatic cell lineages will be instrumental for developing targeted therapies. In our prior work, we combined cell purification methods with genomic assays to identify cell-type specific accessible genomic regions in primary human pancreas cells, and found putative enhancer elements corresponding to specific pancreas cell lineages. However, the mechanisms linking these regions to cell type-specific gene expression remained unclear. In my talk, I will present our new work on Hi-C linked with chromatin immunoprecipitation (HiChIP) assays using purified human pancreas cells to elucidate chromatin loops involving enhancer elements, as well as our efforts to perturb enhancer function in beta cells.