

Beta Cell Interest Group (BIG)

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: islet beta cell

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Meeting Details

Start Date / Time	August 16, 2017 at 9:00 AM
End Date / Time	August 16, 2017 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Karin Bosma (O'Brien's laboratory)
Presentation Title	Exploring the Function of G6pc2 in Pancreatic Islets
Status	This meeting has already occurred

Meeting Agenda/Notes

Elevated fasting blood glucose (FBG) levels have been associated with an increased risk of type 2 diabetes (T2D) development and cardiovascular-associated mortality (CAM). Genome-wide association studies (GWAS) have identified SNPs in *G6PC2*, an isoform of the glucose-6-phosphatase catalytic subunit expressed in pancreatic islet beta cells, that are associated with variations in FBG. Deletion of *G6pc2* in mice results in reduced FBG, consistent with the human GWAS data. I am using several mouse models to further explore the function of G6pc2 in islet beta cells and its potential as a therapeutic target for the prevention of T2D and CAM.