

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 19, 2014 at 9:00 AM
End Date / Time	November 19, 2014 at 9:55 AM
Duration	55 minutes
Location	512 Light Hall
Presenter Name	Benjamin Glaser, MD, Hadassah-Hebrew Univ Med Ctr
Presentation Title	Glycolysis Control of Beta-cell Fate
Status	This meeting has already occurred

Meeting Agenda/Notes

Pancreatic beta-cell plasticity, defined as its ability to self-replicate, de-differentiate and trans-differentiate, has recently become the subject of extensive study. Beta-cell glycolytic flux, and thus demand for insulin secretion (work-load), appears to be the major regulator controlling entry into the cell cycle. However, increased glycolytic flux also has a toxic effect, modulated by expression of p53, evidence suggesting DNA damage as well as evidence of de-differentiation and even trans-differentiation to other endocrine cell types. GLP1 agonists may be able to prevent, at least partially, these toxic effects.