

Progress Report #2: November 1, 2019

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Title: PTPN2 plays a novel role in beta cells to regulate mitochondrial metabolism and beta cell survival during Type 1 diabetes (T1D) progression.

Experiments:

I do not have new experimental data this month. However, I am in the process of weaning pups from PTPN2 β KO mice breeding cages. I have several cohorts of controls, PTPN2 β het, and PTPN2 β KO male mice and I will be measuring the oxygen consumption rate and extra cellular acidification rate of these mice at 9 weeks-of-age (estimate date is 7th Nov 2019). Also, to prepare for the large number of mice I will need for my pro-inflammatory cytokine treatment experiment, I have set up 10 breeding cages and am awaiting for the birth of the pups.