

Title: Supplementary Movie 1.

Description: Time course of Red/Green INS1 cells after changing media from 2 mM to 20 mM glucose. A field of Yellow (Red/Green) fluorescence in Red/Green INS1 cells from 0 to 10 h after changing culture medium from 2 mM to 20 mM glucose.

Title: Supplementary Movie 2.

Description: Pancreata were perfused and isolated from Cre negative male eOE β mice and clarified using the iDISCO method, and immunolabeled with an antibody against insulin. Lightsheet images were acquired and Imaris software was used to render the video.

Title: Supplementary Movie 3.

Description: Pancreata were perfused and isolated from Cre positive male eOE β mice and clarified using the iDISCO method, and immunolabeled with an antibody against insulin. Lightsheet images were acquired and Imaris software was used to render the video.