A role for altered SOCE and ER Ca^{2+} homeostasis in the pancreatic β cells

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Tatsuyoshi Kono is a Research Assistant Professor in the Division of Endocrinology and Metabolism at the Indiana University School of Medicine. He completed his Ph.D at Graduate School of Agricultural Science, Tohoku University in 2007 and he had postdoctoral training in basic diabetes research at Tohoku University Biomedical Engineering Research Organization and at Indiana University. After 3 years of postdoctoral training at Indiana Center For Vascular Biology and Medicine, and Wells Research Center for Pediatrics Research as a T32 grant appointee, he got a faculty position in 2012. Since 2008, his research has thematically centered on understanding signaling pathways that lead to altered β cell function and survival under diabetic conditions. To date, his group focused on the role of calcium channels such as SERCA2, SPCA1 and Store-Operated Calcium channels(SOCs) in the β cell ER/Golgi calcium homeostasis and insulin secretory function using human cells, mouse cells and transgenic mouse models