

## Doctoral College Metabolic & Cardiovascular Disease



## Glucose control of beta cell function in pancreatic tissue slices

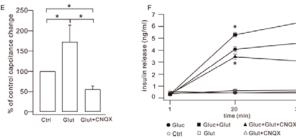
## **GUEST LECTURE by**



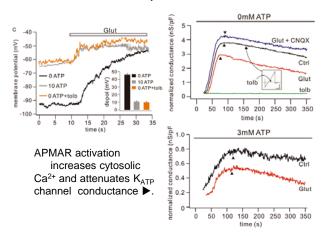
## Prof. Dr. Marjan Rupnik Department of Physiology Medical Faculty

Medical Faculty
University of Maribor, Slovenia

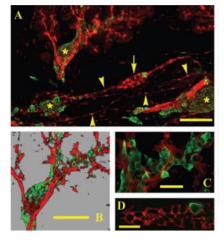
Wednesday, 28.11.2012
17:00h
Lecture Hall HS E2
Lecture Hall Centre, Auenbruggerplatz 15



▲ APMARs modulate exocytosis and insulin release.



APMA receptors regulate exocytosis and insulin release in pancreatic β cells. Wu et al. Traffic (2012) 13: 1124-1139



Immunohistochemistry confirming the identity of patched  $\alpha$ -cells in pancreatic slices

Ca2+ dependent exocytosis.

Unperturbed islet α-cells function examined in mouse pancreas tissue slices. Y-C Huang et al. J Physiol (2011) 589(2): 395-408

■ Relation between insulin-positive cells and ducts in postnatal day 0 mice.

Exocytosis of insulin. *In vivo* maturation of mouse endocrine pancreas.

Rozzo et. al.; Mechan of Exocyt Ann. N.Y. Acad. Sci (2009) 1152: 53-62

