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Doctoral College
Metabolic & Cardiovascular Disease

Medical University of Graz

UNI GRAZ TU Graz Graz University of Technology

DYSFUNCTION OF CARDIAC IONIC CHANNELS AS A BASE OF ARRHYTHMIAS: EFFECTS OF DRUGS OR MUTATIONS

GUEST LECTURE by

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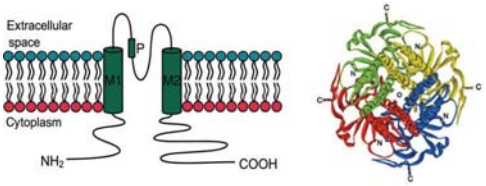
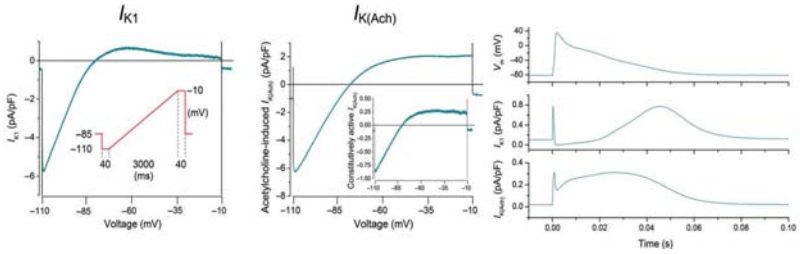
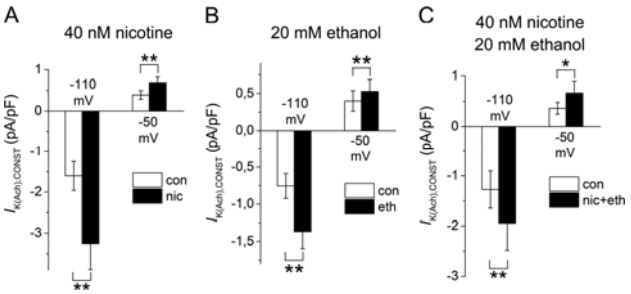
09:00

MC1.G.01.005 (SR 01 – Applied Biomedicine; MED Campus, tract G, 1st floor), MUG

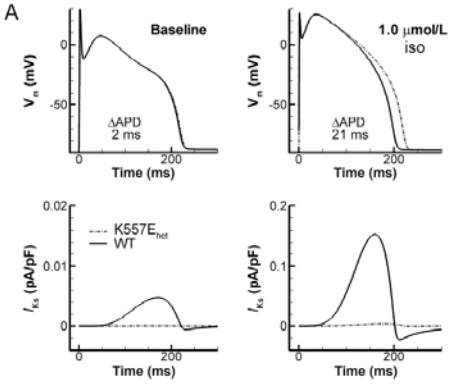


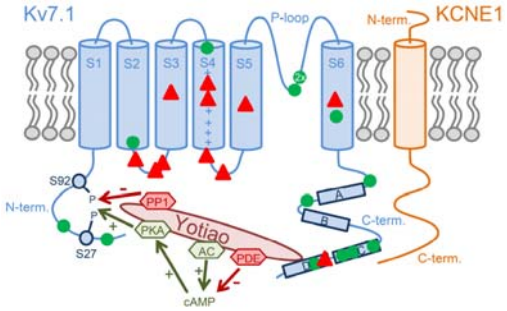
Cardiac inward rectifier potassium (Kir) currents.
Bébarová *et al.* (2017) Europace. 19(3):346-55.





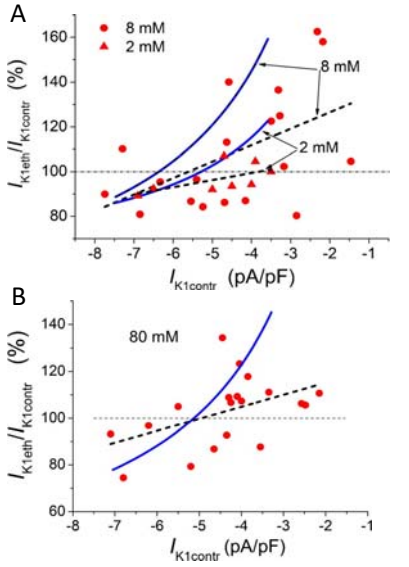
Effect of nicotine and ethanol at clinically relevant concentrations and their combination on constitutively active component of $I_{K(Ach)}$ ($I_{K(Ach),CONST}$).
Bébarová *et al.* (2017) Naunyn-Schmiedeberg's Arch Pharmacol. 390:471-81.





Scheme of the macromolecular complex formed by the pore-forming a-subunit Kv7.1, modulatory β-subunit KCNE1, and anchoring protein Yotiao.
Policarová *et al.* (2019) Can J Cardiol. 35(4):511-22

Changes of cardiac AP duration (APD) caused by I_{Ks} channels with K557E mutation that was identified in patients with LQT1.
Policarová *et al.* (2019) Can J Cardiol. 35(4):511-22



Correlation between the relative effect of ethanol ($I_{K1eth}/I_{K1contr}$) and the current density under ethanol free conditions ($I_{K1contr}$) in rat ventricular (A) and atrial (B) cells.
Šimurda *et al.* (2018) Pflugers Arch - Eur J Physiol. 470:315-25.