



Doctoral School
Translational Cellular and Molecular Bioscience

Guest Lecture



“Subunit-dependent variations in stoichiometry and function in G protein-GIRK signaling complexes“

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SR 07.13, Preclinics (Harrachgasse 21, 1st floor), MUG

Molecular mechanisms of signal transduction from neurotransmitters to ion channels in brain and heart, and their relation to human physiology and disease.

We are addressing a key issue in modern cardiology and neurobiology: how hormones and neurotransmitters regulate the function of cardiac cells and neurons, by acting on ion channels – proteins that underlie the electrical activity in these cells. We are studying the central open issues in this field: protein complexes and the biochemical cascades involved in modulation of ion channels; cellular, biophysical and biochemical mechanisms that underlie the function of proteins responsible for excitability; changes in their function as a result of genetic disorders and cardiac disease; and the possible relation of ion channels to affective disorders such as the bipolar disease.