Vladimir Chubanov *(Munich,* ***Germany)***

Group Leader, Walther-Straub Institute of Pharmacology and Toxicology, LMU Munich, Germany. Studies of my group are focused on TRPM6 and TRPM7, bifunctional proteins comprising a channel segment linked to an α-type protein kinase. Loss-of-function mutations in the human *TRPM6* gene cause an autosomal recessive disorder, hypomagnesemia 1, intestinal (HOMG1) also called hypomagnesemia with secondary hypocalcemia (HSH). Mechanistically, the regulation of Mg^{2+} homeostasis by these two channel kinases and the pathophysiological consequences of TRPM6 mutations are only poorly understood. Therefore, the major goal of our studies is to attain mechanistic knowledge about the physiological and pathophysiological roles of kinase-coupled channels using gene-modified mice and primary cells derived from TRPM6- and TRPM7-deficient animals. Contact: vladimir.chubanov@lrz.uni-muenchen.de

In his speech, he will talk about the physiological role of TRPM6 and TRPM7 in regulation of systemic magnesium homeostasis.