

Thomas Gudermann (Munich, Germany)



Director of Walther Straub Institute of Pharmacology and Toxicology, LMU Munich, Germany;

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He is a member of the German National Academy of Sciences and has received various awards from national and international scientific societies, i.e. German Society of Endocrinology, Society of Toxicology. He is currently heading a large center grant of the German Research Foundation (DFG), Transregional Collaborative Research Center 152, focusing on the maintenance of body homeostasis by *Transient Receptor Potential* (TRP) ion channels. In addition, he is speaker of a research consortium, Research Training Group 2338, dealing with the identification of molecular targets in lung toxicology, also funded by the German Research Foundation (DFG).

His main focus of research relates to the physiological and pathophysiological role of TRP channels for mineral homeostasis, the role of G protein-coupled receptors in mechanobiology, and the identification of new therapeutic targets in lung toxicology. Contact: thomas.gudermann@lrz.uni-muenchen.de

In his speech, he will talk about new general mechanisms underlying the control of gene transcription by the Mg^{2+} and Zn^{2+} permeable kinase-coupled TRP channel TRPM7. These findings may open up new therapeutic avenues by specifically targeting TRPM7 at the plasma membrane.