

Gerhard Sponder (Berlin, Germany)



Gerhard Sponder is postdoctoral researcher at the Institute of Veterinary Physiology at Free University Berlin, Germany. From the beginning of his scientific career, he has focused on cellular Mg^{2+} homeostasis, in particular on the functional and structural characterization of the channel Mrs2 that forms the main Mg^{2+} influx system in mitochondria. Later, his research focused on the physiological relevance of solute carrier 41A1 which represents the main Mg^{2+} -efflux system of mammalian cells and its dysregulation is associated with diseases such as diabetes mellitus, hypertension, and neurodegenerative disorders. Also in dairy cows and horses he investigates Mg^+ transport, especially under metabolically challenging situations like the onset of lactation and equine metabolic syndrome. contact: gerhard.sponder@fu-berlin.de *In his speech, he will talk about the role of the mitochondrial Mg^{2+} -channel Mrs2 and of the solute carrier family 41 for cellular Mg^{2+} -homeostasis*