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Schwerpunkte der wissenschaftlichen Arbeit

- Signaltransduktion
- Ionenkanäle
- Proteinkinasen
- Modelle menschlicher Erkrankungen
- Molekulare Kardiovaskulogie

Wichtige Publikationen

- The biology of cyclic GMP-dependent protein kinases (J. Biol. chem. 2005)
- A family of hyperpolarization-activated mammalian cation channels (Nature 1998)
- Regulation of $[Ca^{2+}]_i$ by a Signaling Complex of IRAG, IP_3 Receptor and cGMP Kinase $I\beta$ (Nature 2000)
- IRAG is essential for relaxation of receptor-triggered smooth muscle contraction (EMBO J. 2004)
- Dominant role of smooth muscle L-type calcium channel (EMBO J. 2003)
- Absence epilepsy and sinus dysrhythmia in mice lacking the pacemaker channel HCN2 (EMBO J. 2003)