



Curriculum Vitae

Personal information **Ulrich Russ**

Work experience

1. Employer: University of Gießen
 - Start date: 111986
 - End date: 121990
 - Position: Scientific co_worker
 - Activities: Science, PhD_Thesis
 - Country: Germany
2. Employer: University of Regensburg
 - Start date: 041991
 - End date: 031994
 - Position: Scientific assistant
 - Activities: Science (electrophysiology), lecturing
 - Country: Germany
3. Employer: Hoechst AG
 - Start date: 061994
 - End date: 031996
 - Position: Postdoc
 - Activities: Preclinical science (cardiovascular)
 - Country: Germany
4. Employer: University of Tübingen
 - Start date: 041996
 - End date: 102009
 - Position: Assistant / associate professor
 - Activities: Science (electrophysiology / diabetes, cardiovascular), lecturing
 - Country: Germany
5. Employer: BfArM
 - Start date: 052011
 - End date:
 - Position: clinical assessor
 - Activities: Authorisation of drugs (diabetes, cardiovascular)
 - Country: Germany

Education and training

1. Subject: University of Gießen
 - Start date:
 - End date:
 - Qualification: Diploma in Biology
 - Organisation:
 - Country: Germany
2. Subject: University of Gießen
 - Start date:
 - End date:
 - Qualification: PhD natural sciences
 - Organisation:
 - Country: Germany
3. Subject: University of Tübingen
 - Start date:
 - End date:
 - Qualification: Venia Legendi for pharmacology
 - Organisation:
 - Country: Germany

Additional information

Publications

Papers in refereed journals 1. U. Russ, F. Grolig and G. Wagner: Differentially adsorbed vital dyes inhibit chloroplast movement in *Mougeotia scalaris*. *Protoplasma* (1988) [Suppl 1]: 180_184 2. G. Wagner, P.G. Eilfeld, U. Russ and F. Grolig: Binding of heterologous cytosolic phytochrome to the calcium_binding vesicles in vitro, and inhibitory effect of lithium on chloroplast movement in *Mougeotia scalaris*. *Plant Physiol. Biochem.* (1989) 27: 817_821 3. U. Russ, F. Grolig and G. Wagner: Changes of cytoplasmic free Ca²⁺ in the green alga *Mougeotia scalaris* as monitored with indo_1, and their effect on the velocity of the chloroplast movements. *Planta* (1991) 184: 105_112 4. U. Ruß, T. Ringer and D. Siemen: A voltage_dependent and a voltage_independent potassium channel in brown adipocytes of the rat. *Biochim. Biophys. Acta Biomembranes* (1993) 1153: 249_256 5. U. Russ and D. Siemen: Kinetic parameters of the ionic currents in myelinated axons: characterisation of temperature effects in a hibernator and a nonhibernator. *Pflügers Arch. _ Eur. J. Physiol.* (1996) 431: 888_894 6. U. Ruß, H. Englert, B.A. Schölkens and H. Gögelein: Simultaneous recording of ATP_sensitive K⁺ current and intracellular Ca²⁺ in anoxic rat ventricular myocytes. Effects of glibenclamide. *Pflügers Arch. _ Eur. J. Physiol.* (1996) 432: 75_80 7. U. Ruß, C. Balsew, W. Scholz, U. Albus, H.J. Lang, A. Weichert, B.A. Schölkens and H. Gögelein: Effects of the Na⁺/H⁺_exchange inhibitor Hoe 642 on intracellular pH, calcium and sodium in isolated rat ventricular myocytes. *Pflügers Arch. _ Eur. J. Physiol.* (1996) 433: 26_34 8. U. Russ , F. Metzger, E. Kickenweiz, A. Hambrock, P. Krippeit_Drews and U. Quast: Binding and effects of KATP channel openers in the vascular smooth muscle cell line A10. *Br. J. Pharmacol.* (1997) 122: 1119_1126 9. U. Russ , U. Rauch and U. Quast: Pharmacological evidence for a KATP channel in renin

secreting cells from rat kidney. *J. Physiol. (Lond.)* (1999) 517: 781_790 10. A. Bachmann, U. Russ and U. Quast: Potent inhibition of the CFTR chloride channel by suramin. *Naunyn-Schmiedeberg's Arch. Pharmacol.* (1999) 360: 473_476 11. U. Russ, A. Hambrock, F. Artunc, C. Löffler_Walz, Y. Horio, Y. Kurachi and U. Quast: Coexpression with the inward rectifier K⁺ channel Kir6.1 increases the affinity of the vascular sulfonylurea receptor SUR2B for glibenclamide. *Mol. Pharmacol.* (1999) 56: 955_961 12. E. Ringer, U. Russ and D. Siemen: b3_Adrenergic stimulation and insulin inhibition of nonselective cation channels in white adipocytes of the rat. *Biochim. Biophys. Acta Biomembranes* (2000) 1463: 241_253 13. A. Bachmann, U. Russ, S. Waldegger and U. Quast: Potent stimulation and inhibition of the CFTR Cl⁻ current by phloxedine B. *Br. J. Pharmacol.* (2000) 131: 433_440 14. P.W. Manley, C. Löffler_Walz, U. Russ, A. Hambrock, T. Moenius and U. Quast: Synthesis and characterization of a novel tritiated KATP channel opener with a benzopyran structure. *Br. J. Pharmacol.* (2001) 133: 275_285 15. A. Bachmann, U. Quast and U. Russ: Chromanol 293B, a blocker of the slow delayed rectifier K⁺ current (IKs), inhibits the CFTR Cl⁻ current. *Naunyn-Schmiedeberg's Arch. Pharmacol.* (2001) 363: 590_596 16. A. Hambrock, C. Löffler_Walz, U. Russ, U. Lange and U. Quast: Characterization of a mutant sulfonylurea receptor SUR2B with high affinity for sulfonylureas and openers: Differences in the coupling to Kir6.x subtypes. *Mol. Pharmacol.* (2001) 60: 190_199 17. U. Russ, C. Löffler_Walz, A. Hambrock, U. Lange and U. Quast: Interaction of the sulfonylthiourea HMR 1883 with sulfonylurea receptors and recombinant ATP-sensitive K⁺ channels: Comparison with glibenclamide *J. Pharmacol. Exp. Ther.* (2001) 299: 1049_1055 18. K._H. Buchheit, P.W. Manley, U. Quast, U. Russ, L. Mazzoni and J.R. Fozard: KCO912: A potent and selective opener of ATP-dependent potassium (KATP) channels which suppresses airways hyperreactivity at doses devoid of cardiovascular effects. *Naunyn-Schmiedeberg's Arch. Pharmacol.* (2002) 365: 220_230 19. A. Hambrock, R. Preisig_Müller, U. Russ, A. Piehl, P.J. Hanley, J. Ray, J. Daut, U. Quast and C. Derst: Four novel splice variants of sulfonylurea receptor 1. *Am. J. Physiol. _ Cell Physiol.* (2002) 283: C587_C598 20. L. Gojkovic_Bukarica, A. Hambrock, C. Löffler_Walz, U. Quast and U. Russ: Mg²⁺ sensitizes KATP channels to inhibition by DIDS: Dependence on the sulphonylurea receptor subunit. *Br. J. Pharmacol.* (2002) 137: 429_440 21. U. Lange, C. Löffler_Walz, H. C. Englert, A. Hambrock, U. Russ and U. Quast: The Stereoisomers of a pinacidil analog open or close cloned ATP-sensitive K⁺ channels. *J. Biol. Chem.* (2002) 277: 40196_40205 22. U. Russ, U. Lange, C. Löffler_Walz, A. Hambrock and U. Quast: Binding and effect of KATP channel openers in the absence of Mg²⁺. *Br. J. Pharmacol.* (2003) 139: 368_380 23. H. Felsch, U. Lange, A. Hambrock, C. Löffler_Walz, U. Russ, W.A. Carroll, M. Gopalakrishnan and U. Quast: Interaction of a novel dihydropyridine K⁺ channel opener, A_312110, with recombinant sulphonylurea receptors and KATP channels: comparison with the cyanoguanidine P1075. *Br. J. Pharmacol.* (2004) 141: 1098_1105 24. A. Leichtle, U. Rauch, M. Albinus, P. Benöhr, H. Kalbacher, A.F. Mack, R.W. Veh, U. Quast and U. Russ: Electrophysiological and molecular characterization of the inward rectifier in juxtaglomerular cells from rat kidney. *J. Physiol. (Lond.)* (2004) 560: 365_376 25. U. Quast, D. Stephan, S. Bieger and U. Russ: The impact of ATP-sensitive K⁺ channel subtype selectivity of insulin secretagogues for the coronary vasculature and the myocardium. *Diabetes* (2004) 53: S156_S164 26. D. Stephan, E. Stauß, U. Lange, H. Felsch, C. Löffler_Walz, A. Hambrock, U. Russ and U. Quast: The mutation Y1206S increases the affinity of the sulphonylurea receptor SUR2A for glibenclamide and enhances the effects of coexpression with Kir6.2. *Br. J. Pharmacol.* (2005) 144:1078_1088 27. D. Stephan, M. Winkler, P. Kühner, U. Russ and U. Quast: Selectivity of repaglinide and glibenclamide for the pancreatic over the cardiovascular KATP channels. *Diabetologia* (2006) 49: 2039-2048 28. D. Stephan, E. Salamon, H. Weber, U. Russ, H. Lemoine and U. Quast: KATP channel openers of the benzopyran type reach their binding site via the cytosol. *Br. J. Pharmacol.* (2006) 149: 199-205 29. J. Laske_Ernst, A. Stehle, V. Vallon, U. Quast and U. Russ: Effect of adenosine on membrane potential and Ca²⁺ in juxtaglomerular cells _ Comparison with angiotensin II. *Kidney Blood Press. Res.* (2008) 31:94_103 30. U. Russ, P. Kühner, R. Prager, D. Stephan, J. Bryan and U. Quast: Incomplete dissociation of glibenclamide from wild_type and mutant pancreatic KATP channels limits their recovery from inhibition. *Br. J. Pharmacol.* (2009) 156:354_361 31. M. Winkler, R. Lutz, U. Russ, U. Quast and J. Bryan: Analysis of two KCNJ11 neonatal diabetes mutations, V59G and V59A, and the analogous KCNJ8 I60G substitution: Differences between the channel subtypes formed with SUR1. *J. Biol. Chem.* (2009) 284:6752 _ 6762 32. J. Laske_Ernst, M. Chmielnicki, U. Quast and U. Russ: Cyclic AMP increases cytoplasmic free calcium in renin-secreting cells from rat kidney. *Gen. Physiol. Biophys.* (2009) 28:404 _ 413 33. T. Amann, S. Schell, P. Kühner, M. Winkler, M. Schwanstecher, C. Schwanstecher, U. Russ, U. Quast: Substitution of the Walker A_Lys by Arg in the nucleotide binding domains of sulphonylurea receptor SUR2B: Effects on ligand binding and channel activity. *Naunyn-Schmiedeberg's Arch. Pharmacol.* (2010) Book articles 1. G. Wagner, U. Ruß and H. Quader: Calcium, a regulator of cytoskeletal activity and cellular competence. In *The Cytoskeleton of the Algae*; D. Menzel, Ed., CRC Press Boca Raton, FL (1992) Chapter 21: 411_424 2. A. Koivisto, E. Dotzler, U. Ruß, J. Nedergaard and D. Siemen: Nonselective cation channels in brown and white fat cells. In *Nonselective cation channels, pharmacology, physiology and biophysics*, D. Siemen & J. Hescheler, Eds., Birkhäuser Verlag, Basel (1993) 201_211 3. A. Koivisto, T. Ringer, U. Ruß, J. Nedergaard and D. Siemen: Pharmacology and regulation of the ion channels of the brown adipocyte plasma membrane. In *Thermal Balance in Health and Disease _ Advances in Pharmacological Sciences*, E. Zeisberger, Ed., Birkhäuser Verlag, Basel (1994) 103_108

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