

Publications

Glitsch MD (2019) Mechano- and pH-sensing convergence on Ca²⁺-mobilising proteins – A recipe for cancer? *Cell Calcium* 80:38-45. doi: 10.1016/j.ceca.2019.03.010

Wei WC, Bianchi F, Wang YK, Tang MJ, Ye H, **Glitsch MD.** (2018) [Coincidence Detection of Membrane Stretch and Extracellular pH by the Proton-Sensing Receptor OGR1 \(GPR68\).](#) *Curr Biol.* 28(23):3815-3823.e4. doi: 10.1016/j.cub.2018.10.046. PMID: 30471999

Glitsch MD. (2018) [Gordon Research Conference on Ca²⁺ Signalling 2017 Editorial.](#) *J Physiol* 596(14):2661-2662. doi: 10.1113/JP276271.

Wei WC, Huang WC, Lin YP, Becker EBE, Ansorge O, Flockerzi V, Conti D, Cenacchi G, J **Glitsch MD.** (2017) [Functional expression of calcium-permeable canonical transient receptor potential 4-containing channels promotes migration of medulloblastoma cells.](#) *Physiol.* 595(16):5525-5544. doi: 10.1113/JP274659. PMID: 28627017

Glitsch MD (2016) Essentials of cell physiology. *Surgery* 34:371-375. Doi: [16.04.014](#)

Wei WC, Jacobs B, Becker EB, **Glitsch MD.** (2015) [Reciprocal regulation of two G protein-coupled receptors sensing extracellular concentrations of Ca²⁺ and H.](#) *Proc Natl Acad Sci* 112(34):10738-43. doi: 10.1073/pnas.1506085112. PMID: 26261299

Langfelder A, Okonji E, Deca D, Wei WC, **Glitsch MD.** (2015) [Extracellular acidosis impairs P2Y receptor-mediated Ca\(2+\) signalling and migration of microglia.](#) *Cell Calcium.* 57(4):247-56. doi: 10.1016/j.ceca.2015.01.004. PMID: 25623949

Glitsch MD. (2014) Extracellular acidosis and cancer. In: Molecular genetics of dysregulated pH homeostasis. Ed. Chi, Jen-Tsan SBN 978-1-4939-1683-2; pages 123-133

Nelson C, **Glitsch MD.** (2012) [Lack of kinase regulation of canonical transient receptor potential 3 \(TRPC3\) channel-dependent currents in cerebellar Purkinje cells.](#) *J Biol Chem.* 287(9):6326-35. doi: 10.1074/jbc.M111.246553. PMID: 22207762

Glitsch M. (2011) [Protons and Ca²⁺: ionic allies in tumor progression?](#) *Physiology* (Bethesda). 26(4):252-65. doi: 10.1152/physiol.00005.2011. PMID: 21841073

Clark RH, McTaggart JS, Webster R, Mannikko R, Iberl M, Sim XL, Rorsman P, **Glitsch M,** Beeson D, Ashcroft FM. (2010) [Muscle dysfunction caused by a KATP channel mutation in neonatal diabetes is neuronal in origin.](#) *Science.* 329(5990):458-61. doi: 10.1126/science.1186146. PMID: 20595581

Glitsch MD. (2010) [Activation of native TRPC3 cation channels by phospholipase D](#). FASEB J. 24(1):318-25. doi: 10.1096/fj.09-134973. PMID: 19741172

Becker EB, Oliver PL, **Glitsch MD**, Banks GT, Achilli F, Hardy A, Nolan PM, Fisher EM, Davies KE.(2009) [A point mutation in TRPC3 causes abnormal Purkinje cell development and cerebellar ataxia in moonwalker mice](#). Proc Natl Acad Sci 106(16):6706-11. doi: 10.1073/pnas.0810599106. PMID: 19351902

Huang WC, Swietach P, Vaughan-Jones RD, **Glitsch MD.** (2009) [Differentiation impairs low pH-induced Ca²⁺ signaling and ERK phosphorylation in granule precursor tumour cells](#). Cell Calcium. 45(4):391-9. doi: 10.1016/j.ceca.2009.01.002.PMID: 19249096

Huang WC, Swietach P, Vaughan-Jones RD, Ansorge O, **Glitsch MD.** (2008) [Extracellular acidification elicits spatially and temporally distinct Ca²⁺ signals](#). Curr Biol. 18(10):781-785. doi: 10.1016/j.cub.2008.04.049.PMID: 18485712

Glitsch MD. (2008) [Calcium influx through N-methyl-D-aspartate receptors triggers GABA release at interneuron-Purkinje cell synapse in rat cerebellum](#). Neuroscience. 151(2):403-9. PMID: 18055124

Glitsch MD. (2008) [Spontaneous neurotransmitter release and Ca²⁺--how spontaneous is spontaneous neurotransmitter release?](#) Cell Calcium.43(1):9-15. PMID: 17382386

Huang WC, Young JS, **Glitsch MD.** (2007) [Changes in TRPC channel expression during postnatal development of cerebellar neurons](#). Cell Calcium. 42(1):1-10. PMID: 17141310
Glitsch M. (2006) [Selective inhibition of spontaneous but not Ca²⁺ -dependent release machinery by presynaptic group II mGluRs in rat cerebellar slices](#). J Neurophysiol. 96(1):86-96. PMID: 16611839

Glitsch MD, Bakowski D, Parekh AB. (2002) [Store-operated Ca²⁺ entry depends on mitochondrial Ca²⁺ uptake](#). EMBO J. 21(24):6744-54. PMID: 12485995

Glitsch MD, Bakowski D, Parekh AB. (2002) [Effects of inhibitors of the lipo-oxygenase family of enzymes on the store-operated calcium current I\(CRAC\) in rat basophilic leukaemia cells](#). J Physiol. 539(Pt 1):93-106. PMID: 11850504

Glitsch MD, Jack JJ. (2001) [Evidence that glutamate acting on presynaptic type-II metabotropic glutamate receptors alone does not fully account for the phenomenon of depolarisation-induced suppression of inhibition in cerebellar Purkinje cells](#). Pflugers Arch. 442(3):404-8. PMID: 11484772

Bakowski D, **Glitsch MD**, Parekh AB. (2001) [An examination of the secretion-like coupling model for the activation of the Ca²⁺ release-activated Ca²⁺ current I\(CRAC\) in RBL-1 cells](#). J Physiol. 532(Pt 1):55-71. PMID: 11283225

Glitsch M, Parra P, Llano I. (2000) [The retrograde inhibition of IPSCs in rat cerebellar purkinje cells is highly sensitive to intracellular Ca²⁺](#). Eur J Neurosci.:987-93. PMID: 10762329

Glitsch MD, Parekh AB. (2000) [Ca²⁺ store dynamics determines the pattern of activation of the store-operated Ca²⁺ current I\(CRAC\) in response to InsP₃ in rat basophilic leukaemia cells](#). J Physiol. 523 Pt 2:283-90. PMID: 10699074

Glitsch M, Marty A. (1999) [Presynaptic effects of NMDA in cerebellar Purkinje cells and interneurons](#). J Neurosci. 19(2):511-9. PMID: 9880571

Glitsch M, Llano I, Marty A. (1996) [Glutamate as a candidate retrograde messenger at interneurone-Purkinje cell synapses of rat cerebellum](#). J Physiol. 497 (Pt 2):531-7. PMID: 8961193

Glitsch M, Wischmeyer E, Karschin A. (1996) [Functional characterization of two 5-HT₃ receptor splice variants isolated from a mouse hippocampal cell line](#). Pflugers Arch. 432(1):134-43. PMID: 8662278

Marty A, **Glitsch M**, Kondo S, Llano I. (1996) [Cyclic AMP-regulated GABA release at inhibitory synapses in rat cerebellar slices](#). J Physiol 90(5-6):327-8. PMID: 9089503