

Bender RA, Zhou L, Vierk R, **Brandt N**, Keller A, Gee CE, Schäfer MKE, Rune GM (2016) Sex-dependence of aromatase-mediated synaptic plasticity in the basolateral amygdala; *J Neurosci*, 2017;37(6):1532-1545.

Fester L, **Brandt N**, Windhorst S, Pröls F, Bläute C, Rune GM (2015) Control of aromatase in hippocampal neurons. *J Steroid Biochem Mol Biol*. 2015 Oct12. pii: S0960-0760(15)30109-6. doi: 10.1016/j.jsbmb.2015.10.009. [Epub ahead of print] Review.

Koester JD, Leggewie B, Blechner C, **Brandt N**, Fester L, Rune GM, Schweizer M, Kindler S, Windhorst S (2015) Inositol, 1,4,5- triphosphate-3kinase-A controls morphology of hippocampal dendritic spines. *Cell Signal*. 2015 Oct 28. pii: S0898-6568(15)00309-5. doi: 10.1016/j.cellsig.2015.10.016. [Epub ahead of print].

Brandt N, Vierk R, Fester L, Zhou L, Imholz P, Rune GM (2014) Gender and the effects of steroid hormones in the central nervous system. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz*. 2014 Sep;57(9):1054-60. doi: 10.1007/s00103-014-2014-4. German.

Vierk R, **Brandt N**, Rune GM (2014) Hippocampal estradiol synthesis and its significance for hippocampal synaptic stability in male and female animals. *Neuroscience*. 2014 May 15;274C:24-32. doi: 10.1016/j.neuroscience.2014.05.003. [Epub ahead of print] Review.

Zhou L, Fester L, Haghshenas S, de Vrese X, Hacht RV, Gloger S, **Brandt N**, Bader M, Vollmer G, Rune GM (2014) Oestradiol-induced synapse formation in the female hippocampus: roles of estrogen receptor subtypes. *J Neuroendocrinol*. 2014 Apr 30. doi: 10.1111/jne.12162. [Epub ahead of print].

Prange-Kiel J, Schmutterer T, Fester L, Zhou L, Imholz P, **Brandt N**, Vierk R, Jarry H, Rune GM (2013) Endocrine regulation of estrogen synthesis in the hippocampus? *Prog Histochem Cytochem*. 2013 Jul 29. doi:pii: S0079-6336(13)00013-2. 10.1016/j.proghi.2013.07.002. [Epub ahead of print].

Brandt N, Vierk R, Rune GM (2013) Sexual dimorphism in estrogen-induced synaptogenesis in the adult hippocampus. *Int J Dev Biol*. 2013;57(5):351-6. doi: 10.1387/ijdb.120217gr.

Vierk R, Glassmeier G, Zhou L, **Brandt N**, Fester L, Dudzinski D, Wilkars W, Bender RA, Lewerenz M, Gloger S, Graser L, Schwarz J, Rune GM (2012) Aromatase inhibition abolishes LTP generation in female mice by destabilizing the spine cytoskeleton. *J Neurosci*, 2012.

Wilkars W, Liu Z, Lewis AS, Stoub TR, Ramos EM, **Brandt N**, Nicholson DA, Chetkovich DM, Bender RA (2012) 1. Regulation of axonal HCN1 trafficking in perforant path involves expression of specific TRIP8b isoforms. *PLoS One*. 2012;7(2):e32181. Epub 2012 Feb 21.

Brandt N, Franke K, Johannes S, Buck F, Harder S, Hassel B, Nitsch R, and Schumacher S (2008) B56 β , a regulatory subunit of protein phosphatase 2A, interacts with CALEB/NGC and inhibits CALEB/NGC-mediated dendritic branching. *FASEB J*, 2008 Jul;22(7):2521-33. Epub 2008 Apr 2.

Brandt N, Franke K, Rasin MR, Baumgart J, Vogt J, Khrulev S, Hassel B, Pohl EE, Sestan N, Nitsch R, and Schumacher S (2007) The neural EGF family member CALEB/NGC mediates dendritic tree and spine complexity. *EMBO J*26, 2371-2386.