

## **Selected Publications**

### **PD Dr. Marco Koch**

- Horvath TL, Kim JG, Sun BH, Dietrich MO, Koch M, Yao GQ, Diano S, Insogna K. AgRP neurons regulate bone homeostasis. *Cell Reports*. 2015;13:8-14.
- Koch M, Ferreirós N, Geisslinger G, Dehghani F, Korf HW: Rhythmic control of endocannabinoids in the rat pineal gland. *Chronobiol Int*. 2015;10:1-6.
- Koch M, Varela L, Kim JG, 3, Kim JD, Hernández-Nuño F, Simonds SE, Castorena CM, Vianna CR, Elmquist JK, Morozov YM, Rakic P, Bechmann I, Cowley MA, Szigeti-Buck K, Gao X-B, Dietrich MO, Diano S, Horvath TL. Hypothalamic POMC neurons promote cannabinoid-induced feeding. *Nature*. 2015;519:45-50.
- Kim JG, Suyama S, Koch M, Szigeti K, Gao Y, Garcia-Caceres C, Yi CX, Chowen J, Tschop MH, Horvath TL. Leptin receptors in astrocytes control synaptic input organization of melanocortin cells and metabolic adaptations. *Nat Neurosci*. 2014;17:908-10.
- Koch M, Horvath TL. Neuronal circuitries that regulate food intake and energy metabolism. *Mol Psych*. 2014;9:752-61.
- Kallendrusch S, Kremzow S, Nowicki M, Hobusch C, Merkwitz C, Winkelmann R, Benz AH, Kraft R, Bechmann I, Dehghani F, Koch M. The GPR55 ligand 1- $\alpha$ -lysophosphatidylinositol exerts microglia-dependent neuroprotection after excitotoxic lesion. *Glia*. 2013;61:1822-31.
- Koch M, Horvath TL. Reward aspects of gastrointestinal hormones mediated by brain g protein-coupled receptors. *Biol Psych*. 2012;72:340-2.
- Koch M, Kreutz S, Böttger C, Grabiec U, Ghadban C, Korf HW, Dehghani F. The cannabinoid WIN 55,212-2-mediated protection of dentate gyrus granule cells is driven by CB1 receptors and modulated by TRPA1 and Cav2.2 channels. *Hippocampus*. 2011;21:554-64.
- Kreutz S\*, Koch M\*, Böttger C, Ghadban C, Korf HW, Dehghani F: 2-Arachidonoylglycerol elicits neuroprotective effects on excitotoxically lesioned dentate gyrus granule cells via abnormal-cannabidiol-sensitive receptors on microglial cells. *Glia*. 2009;57:286-94. (\*contributed equally).
- Koch M, Habazettl I, Dehghani F, Korf HW: The rat pineal gland comprises an endocannabinoid system. *J Pineal Res*. 2008;45:351-60.