PUBLICATION LIST

I. Original articles: peer-reviewed:

1) S Walitza*, Z **Marinova***, E Grünblatt, SE Lazic, H Remschmidt, TD Vloet, JR Wendland. Trio study and meta-analysis support the association of genetic variation at the serotonin transporter with early-onset obsessive-compulsive disorder. *Neurosci. Lett*. 580C, 100-103, 2014.
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2) **Z Marinova**, CM Monoranu, S Fetz, S Walitza, E Grünblatt. Region-specific regulation of the serotonin 2A receptor expression in development and ageing in post mortem human brain. *Neuropathol. Appl. Neurobiol*., Epub ahead of print, 2014.

3) **Z Marinova**, S Walitza, E Grünblatt. Real-time impedance-based cell analyzer as a tool to delineate molecular pathways involved in neurotoxicity and neuroprotection in neuronal cell line. *J. Vis. Exp*., 9, e51748, 2014.

4) **Z Marinova**, S Walitza, E Grünblatt. 5-HT2A serotonin receptor agonist DOI alleviates cytotoxicity in neuroblastoma cells: role of the ERK pathway. *Prog. Neuropsychopharmacol. Biol. Psychiatry*, 44, 64-72, 2013.

5) **Z Marinova**, Y Leng, P Leeds, DM Chuang. Histone deacetylase inhibition induces changes in histone methylation in rat astrocytes and cortical neurons associated with modifications on the heat shock protein 70 promoter. *Neuropharmacology*, 60, 1109-1115, 2011.

6) T Yakovleva, V Khmyz, O Maximyuk, **Z Marinova**, V Vukojević, O Krishtal, G Bakalkin A novel mechanism of signal transmission:"prototypical" interactions of neuropeptides with plasma membrane. *Pharmacological Reports*, 63, 237-238, 2011.

7) Y Leng, **Z Marinova**, MA Reis-Fernandes, H Nau, DM Chuang. Potent neuroprotective effects of novel structural derivatives of valproic acid: potential roles of HDAC inhibition and HSP70 induction. *Neurosci. Lett*., 476, 127-132, 2010.

8) **Z Marinova**, M Ren, J Wendland, Y Leng, MH Liang, S Yasuda, P Leeds, DM Chuang. Valproic acid induces functional heat shock protein 70 via Class I histone deacetylase inhibition in cortical neurons: A potential role of Sp1 acetylation. *J. Neurochem*., 111, 976-987, 2009.

9) S Johansson, TJ Ekström, **Z Marinova**, A Okvist, D Sheedy, T Garrick, C Harper, A Kuzmin, T Yakovleva, G Bakalkin. Dysregulation of cell death machinery in the prefrontal cortex in human chronic alcoholics. *Int. J. Neuropsychopharmacol*., 12, 109-115, 2009.

10) S Yasuda, MH Liang, **Z Marinova**, A Yahyavi, DM Chuang. The Mood Stabilizers Lithium and Valproate Selectively Activate the Promoter IV of Brain-Derived Neurotrophic Factor. *Mol. Psychiatry*, 14, 51-59, 2009.

11) Y Leng, MH Liang, M Ren, **Z Marinova**, P Leeds, DM Chuang. Synergistic neuroprotective effects of lithium and valproic acid or other histone deacetylase inhibitors in neurons: roles of glycogen synthase kinase-3 inhibition. *J. Neurosci*., 28, 2576-2588, 2008.

12) T Yakovleva, **Z Marinova**, A Kuzmin, NG Seidah, V Haroutunian, L Terenius, G Bakalkin. Dysregulation of dynorphins in Alzheimer disease. *Neurobiol. Aging*, 28, 1700-1708, 2007.

13) T Yakovleva, I Bazov, G Cebers, **Z Marinova**, Y Hara, A Ahmed, M Vlaskovska, B Johansson, U Hochgeschwender, IN Singh, AJ Bruce-Keller, YL Hurd, T Kaneko, L Terenius, TJ Ekström, KF Hauser, VM Pickel, G Bakalkin. Prodynorphin storage and processing in axon terminals and dendrites. *FASEB J*., 20, 2124-2126, 2006.

14) **Z Marinova**, V Vukojevic, S Surcheva, T Yakovleva, G Cebers, N Pasikova, I Usynin, L Hugonin, W Fang, M Hallberg, D Hirschberg, T Bergman, U Langel, KF Hauser, A Pramanik, JV Aldrich, A Gräslund, L Terenius, G Bakalkin. Translocation of dynorphin neuropeptides across the plasma membrane. A putative mechanism of signal transmission. *J. Biol. Chem*., 280, 26360-26370, 2005.

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15) A Nikoshkov, YL Hurd, T Yakovleva, I Bazov, **Z Marinova**, G Cebers, N Pasikova, A Gharibyan, L Terenius, G Bakalkin. Prodynorphin transcripts and proteins differentially expressed and regulated in the adult human brain. *FASEB J.*, 19, 1543-1545, 2005.

16) K Tan-No, H Takahashi, O Nakagawasai, F Niijima, T Sato, S Satoh, S Sakurada, **Z Marinova**, T Yakovleva, G Bakalkin, L Terenius, T Tadano. Pronociceptive role of dynorphins in uninjured animals: N-ethylmaleimide induced nociceptive behavior mediated through inhibition of dynorphin degradation. *Pain*, 113, 301-309, 2005.

17) **Z Marinova**, T Yakovleva, MF Melzig, M Hallberg, I Nylander, K Ray, DW Rodgers, KF Hauser, TJ Ekström, G Bakalkin. A novel soluble protein factor with non-opioid dynorphin A-binding activity. *Biochem. Biophys. Res. Commun*., 321, 202-209, 2004.
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18) IN Singh, RJ Goody, SM Goebel, KM Martin, PE Knapp, **Z Marinova**, D Hirschberg, T Yakovleva, T Bergman, G Bakalkin, KF Hauser. Dynorphin A (1-17) induces apoptosis in striatal neurons in vitro through alpha-amino-3-hydroxy-5-methylisoxazole-4-propionate/kainate receptor-mediated cytochrome c release and caspase-3 activation. *Neuroscience*, 122, 1013-1023, 2003.

19) **Z Marinova**, A Savov, I Kremenski, M Vlaskovska. Molecular and cellular alterations in rat thymus after long term treatment with morphine and L-NAME. *Balkan Journal of Medical Genetics*, 3, 41-44, 2000.

20) **ZG Marinova**, MV Vlaskovska. Structural alterations in the rat thymus induced by chronic morphine treatment: counteraction by inhibition of nitric oxide synthase. *Compt. rend. Acad. bulg. Sci*., 53, 105-108, 2000.

II. Reviews: peer-reviewed:

21) DM Chuang, Y Leng, **Z Marinova**, HJ Kim, CT Chiu. Multiple roles of HDAC inhibition in neurodegenerative conditions. *Trends Neurosci*., 32, 591-601, 2009.

22) E Grünblatt, J Bartl, **Z Marinova**, S Walitza. In vitro study methodologies to investigate genetic aspects and effects of drugs used in attention-deficit hyperactivity disorder. *J. Neural Transm.*, 120, 131-139, 2013.