Sleep and circadian rhythms: the effects of ketamine, caffeine and anthracyclines

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List of publications

1. **Yumeng Wang**, Tom Deboer. Long-Term Effect of a Single Dose of Caffeine on Sleep, the Sleep EEG and Neuronal Activity in the Peduncular Part of the Lateral Hypothalamus under Constant Dark Conditions. Clocks & Sleep 2022, 4(2), 260-276.

2. **Yumeng Wang**, Sabina Y van der Zanden, Suzanne van Leerdam, Mayke M H Tersteeg, Anneke Kastelein, Stephan Michel, Jacques Neefjes, Johanna H Meijer, Tom Deboer. Induction of Fatigue by Specific Anthracycline Cancer Drugs through Disruption of the Circadian Pacemaker. Cancers (Basel) 2022;14(10).

3. **Yumeng Wang**, Marije Melgers, Johanna H Meijer, Tom Deboer. Comparison of sleep deprivation and a low dose of ketamine on sleep and the electroencephalogram of Brown Norway rats. J Sleep Res. 2023 Feb 20:e13863.

4. **Yumeng Wang**, Anouk W. van Beurden, Mayke M.H. Tersteeg, Stephan Michel, Anneke Kastelein, Jacques Neefjes, Jos H.T. Rohling, Johanna H. Meijer, Tom Deboer. Internal circadian misallignment in a mouse model of chemotherapy induced fatigue. (submitted)

5. **Yumeng Wang**, Tom Deboer. Hypnotic effects of melatonin depend on the environmental lighting conditions in the rat. (submitted)

6. Yanhui Li, **Yumeng Wang**, Chengluan Xuan, Yang Li, Lianhua Piao, Jicheng Li, Hua Zhao. Role of the lateral habenula in pain-associated depression. Frontiers in Behavioral Neuroscience. 2017; 11:31.

7. Jingdian Zhang, **Yumeng Wang**, Xiaofeng Liu, Ruben Dagda&Ying Zhang. How AMPK and PKA interplay to regulate mitochondrial function and survival in models of ischemia and diabetes. Oxidative Medicine and Cellular Longevity .2017.

8. Jingdian Zhang, Jiachun Feng, Di Ma, Feng Wang, **Yumeng Wang**, Chunxiao Li, Xu Wang, Xiang Yin, Ming Zhang, Ruben K Dagda, Ying Zhang. Neuroprotective Mitochondrial Remodeling by AKAP121/PKA Protects HT22 Cell from Glutamate-Induced Oxidative Stress. Mol Neurobiol.2019;56(8):5586-5607.

Curriculum Vitae

Yumeng Wang was born in Heilongjiang, China, on the 21st of March, 1993. In 2011, she started her studies in the School of Life Sciences at the Northeast Agricultural University. During the last year of her bachelor's study, she visited different labs and was inspired by the firing of neurons then she decided to study neuroscience. In 2015, she obtained her bachelor's degree in Science. The same year she began her master's study, she studied Neurophysiology in the Department of Physiology, Norman Bethune Medical College at Jilin University. In 2017, she did an internship at the State Key Laboratory of Medical Neurobiology, Fudan University, which was the first time she learned how to record and analyze electroencephalogram. In the same year, she obtained a China National Scholarship, the highest-ranking scholarship for outstanding students in China. In 2018, she got her master's degree. In October 2018, she started her Ph.D. study in the lab of Neurophysiology under the Department of Cell and Chemical biology at Leiden University Medical Center in the Netherlands under the supervision of Tom de Boer and Joke Meijer. Her Ph.D. projects mainly focus on the effects of pharmacology treatments on sleep and circadian rhythms.