Inhibitor discovery of phospholipases and N-acyltransferases

Zhou, J.

Curriculum Vitae

Juan Zhou was born on 27th of November 1985 in Zhoukou, Henan province, China. In 2005, she was accepted by the Zhengzhou University after the National College Entrance Examination. She obtained her bachelor's diploma in pharmacy in 2009 and was admitted to the Graduate School of China Pharmaceutical University in the same year.

In 2009, she started her master program in Pharmacology at China Pharmaceutical University under the supervision of Prof. Dr. Feng Yu. Her research projects focused on the effect of metformin on liver in a rat model of Type 2 diabetes. She obtained her Master Degree in Science in 2012.

In September 2012, she started working in Department of Human Genetics, Leiden University Medical Center as a researcher. In May 2014, she started her PhD research project within the Bio-organic Synthesis group and then the Molecular Physiology group in Leiden Institute of Chemistry, Leiden University with financial support from the CSC. The research was conducted under the supervision of Prof. Dr. Mario van der Stelt and Prof. Dr. Herman Overkleeft. During her PhD research, she focused on the assay development and inhibitors discovery for PLAAT family protein. Part of her work was presented as poster at the CHAINS-Dutch chemistry conference (Veldhoven, 2015) and the ICRS-International Cannabinoid Research Society (2018, Leiden).

List of publications

1. Structure-Activity Relationship Studies of α-Ketoamides as Inhibitors of the Phospholipase A and Acyltransferase Enzyme Family. J. Med. Chem. 2020, 63 (17), 9340-9359.
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2. Activity-Based Protein Profiling Identifies α-Ketoamides as Inhibitors for Phospholipase A2 Group XVI. ACS Chem. Biol. 2019, 14 (2), 164-169.
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3. Mapping in vivo target interaction profiles of covalent inhibitors using chemical proteomics with label-free quantification. *Nat. Protoc.* **2018**, 13 (4), 752-767.
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4. Rapid and profound rewiring of brain lipid signaling networks by acute diacylglycerol lipase inhibition. *Proc. Natl. Acad. Sci.* USA **2016**, 113 (1), 26-33.
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