



Supervisor:

Prof. MUDr. Ladislav Vyklický, Ph.D., DSc.

Laboratory of Cellular Neurophysiology

Institute of Physiology CAS

Vídeňská 1083

142 20 Prague 4

Tel: +420 24106 2450

E-mail: Ladislav.Vyklicky@fgu.cas.cz

Reference letter for a PhD candidate: Bohdan Kysilov

I have known Bohdan Kysilov since November 2016, when he joined my team as a PhD student. As Bohdan's supervisor, I had an opportunity to observe his creativity, capacity for deep analytical thinking, and ability to perform high-quality research. During our mutual research work, he evolved as a trustworthy, hard-working, and PhD student with an adequate response to the most challenging tasks.

In his doctoral thesis, which is based on three studies published in impacted journals, Bohdan directs attention to the pharmacology and functional properties of NMDA receptors. The first study focuses on the functional and pharmacological characterization of disease-associated mutations of NMDA receptors. The results of this study were published in *Mol Neurosci.*, 179(15), 2018. The second study is focused on the identification of the site of action for an endogenous potentiating neurosteroid pregnenolone sulfate at the NMDA receptor. The results of the study were published in *J Neurosci.*, 110(11), 2020. The third study focuses on the determination of structural requirements for the potentiating effect of neurosteroids at NMDA receptors. The results of this study were published in *Br. J. Pharmacol.*, 179(15), 2022. Overall, Bohdan's doctoral research is a high-quality scientific work that meets all the requirements to be accepted for defence.

Bohdan is a motivated, active, and diligent PhD student who is able to conduct research work autonomously. It is therefore my great pleasure to recommend Bohdan Kysilov's doctoral dissertation for defence.

Date:

Signature: