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Supervisor's Assessment of Yu Hsien Lin Thesis "Pathological mechanisms of polyglutamine disorder in *Drosophila* model of Huntington's disease"

The doctoral work of Yu Hsien Lin is part of our long term project on adenosine signaling and metabolism. The task of Yu Hsien Lin was to study the impact of adenosine on *Drosophila* model of Huntington disease. This work has been covered by two articles – the first one regarding the effect of polyglutamate expression on *Drosophila* immunity was published in October last year in *Frontiers of Immunology*. This article has been chosen together with one more ecological paper as best studies representing our institute in 2019. The second article containing major part of his work focusing on the downstream adenosine signal involved in neurodegeneration has been also submitted to high impact journal and should be also published soon.

During his stay in our laboratory Yu Hsien also worked on the characterization of *Drosophila* adenosine deaminase-like protein by CRISPR/Cas9 mutagenesis and on *Bombyx mori* mutant in adipokinetic hormone receptor. These studies are also almost completed and the results are being prepared for publications. Moreover, Yu Hsien also helped to supervise two undergraduate students working in our laboratory on recombinant silk protein expression in *E. coli*.

Yu Hsien is smart, highly motivated, hardworking, highly responsible and skillful student has done an excellent job. Yu Hsien proved his complete independence and leadership skills. He was always able to find articles significant for our research. During his Ph.D. program he passed two internships: the first one took part in October 2018 and he visited Dr. Hwei-Jan Hsu's laboratory at the Institute of Cellular and Organismic Biology, (Academia Sinica, Taiwan), where he learned *Drosophila* ovary immunostaining. The second stay took part in June-July 2019 - in Dr. Markus Thamm laboratory at the Biocenter of Würzburg University (Germany), where he learned assays of honeybee behavior.

Yu Hsien is also very nice and honest person, showing a sense of humor and spreading optimism. He always kept a friendly spirit and working atmosphere in the laboratory. He has also mastered an adaptation to the Czech environment. His experience in the laboratory, determination and stable character make him a very valuable member of any research team.

Michal Žurovec