
CURRICULUM VITAE

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NAME Chou, Jindi	POSITION TITLE PhD Student in Institute of Neuroscience
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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
China Medical University, Taiwan	B.S.	2011-2015	Department of Nutrition
China Medical University, Taiwan	M.S.	2015-2017	Department of Nutrition
National Yang Ming Chiao Tung University, Taiwan	Ph.D.	2019-present	Institute of Neuroscience

A. Personal Statement

As the first station of cortical inputs in the hippocampus, the dentate gyrus comprises of distinct cell populations and possess three features: two kinds principal neurons, adult neurogenesis, and various interneurons. In the past two years, I have participated in the study of mouse avoidance behavior on activating metabotropic glutamate receptor type 5 of mossy cells and the relationship between exercise-induced myokine, irisin, and adult hippocampal neurogenesis.

Currently, I mainly conduct on the study which is introduced below: GABAergic interneurons (INs) compose of various sub-types and exert strong inhibition in hippocampus, then cause sparse activity. Different from other INs, vasoactive intestinal polypeptide-expressing (VIP⁺) INs preferentially innervate INs over excitatory neurons. Although the published results point out VIP⁺ IN inducing disinhibition on principal neurons may do something in the DG, then influence mouse memory and anxiety level, there is no evident. By way of chemogenetical inhibition on DG VIP⁺ INs and verified it with mouse behavior tasks. I unexpectedly find that the effect leads to increase mouse motor coordination in rotarod test. In the future I am going to use Ca²⁺ imaging to further figure out the role of DG VIP⁺ INs.

B. Position and Employment.

Registered Dietitian at Keelung Municipal Jian-De Primary School, Taiwan (2017-2018)