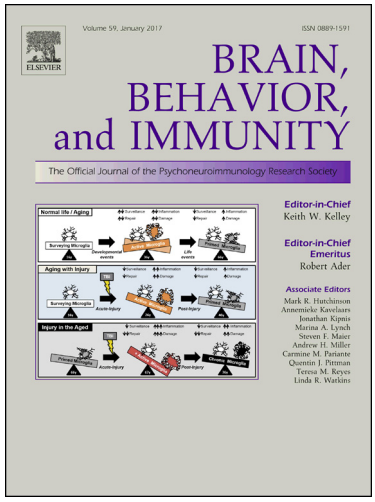
Accepted Manuscript




# *Tlr7* deletion alters expression profiles of genes related to neural function and regulates mouse behaviors and contextual memory

Yun-Fen Hung, Chiung-Ya Chen, Wan-Chen Li, Ting-Fang Wang, Yi-Ping Hsueh

PII: S0889-1591(18)30222-8
DOI: https://doi.org/10.1016/j.bbi.2018.06.006
Reference: YBRBI 3419

To appear in: *Brain, Behavior, and Immunity*

Received Date: 23 January 2018
Revised Date: 24 May 2018
Accepted Date: 6 June 2018

Please cite this article as: Hung, Y-F., Chen, C-Y., Li, W-C., Wang, T-F., Hsueh, Y-P., *Tlr7* deletion alters expression profiles of genes related to neural function and regulates mouse behaviors and contextual memory, *Brain, Behavior, and Immunity* (2018), doi: https://doi.org/10.1016/j.bbi.2018.06.006

# *Tlr7* deletion alters expression profiles of genes related to neural function and regulates mouse behaviors and contextual memory

Running title: TLR7 controls gene expression and mouse behaviors

Yun-Fen Hung[1,2], Chiung-Ya Chen[2], Wan-Chen Li[2,3], Ting-Fang Wang[2,3] and Yi-Ping Hsueh[2,3#]

[1]Department of Life Sciences and Institute of Genome Sciences, National Yang-Ming University, Taipei, 112, Taiwan.
[2]Institute of Molecular Biology, Academia Sinica, Taipei 115, Taiwan.
[3]Taiwan International Graduate Program in Molecular and Cellular Biology, Institute of Molecular Biology, Academia Sinica, and Institute of Life Sciences, National Defense Medical Center, Taipei 115, Taiwan.

*To whom correspondence should be addressed: Dr. Yi-Ping Hsueh, Institute of Molecular Biology, Academia Sinica, 128, Academia Road, Section 2, Taipei 115, Taiwan. E-mail: yph@gate.sinica.edu.tw

**Keywords:** Aggression, Anxiety, Contextual fear memory, Next generation sequencing, Toll-like receptor, Transcriptomic profiling.