The Function of Toll-like receptor 2 in Infection and Inflammation
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List of abbreviations

AB/TL: AB/Tupfel long fin
CFU: colony-forming units
CLSM: confocal laser scanning microscopy
DEGs: differential expressed genes
Dpf: days post fertilization
Dpi: days post injection
EGPF: enhanced Green fluorescent protein
FDR: false discovery rate
FACS: Fluorescence-activated cell sorting
GSEA: Gene-Set Enrichment Analysis
HDT: host-directed therapies
Hpf: hours post fertilization
Hpi: hours post injection
Hpw: hours post wounding
Mpeg1: macrophage expressed gene 1
Mpx: Myeloperoxidase
Mm: Mycobacterium marinum
Mtbg: Mycobacterium tuberculosis
MAC: Mycobacterium avium complex
NMD: non-sense mediated mRNA decay
NTM: nontuberculous mycobacteria
qPCR: quantitative polymerase chain reaction
RNAseq: Deep sequencing of cDNA derived from polyA RNA
SNEA: Sub-Network Enrichment Analysis
TB: tuberculosis
Tg: transgenic
Appendix

Curriculum vitae

Wanbin Hu was born on May 8th, 1991 in Luoyang, Henan, China. After graduating from Luoyang No. 3 High School in 2010, she started a Bachelor’s program in Biotechnology at the Faculty of Life Science at Henan Normal University, Xinxiang, China. In 2014, she obtained her BSc degree.

In 2014, she started to pursue a Master’s degree at Dalian Ocean University, Dalian, China. In her first year of graduate school, she was hired as an assistant graduate counselor. In 2016, she was awarded the “Third Prize of Excellent Paper” in the 2016 Dalian China-Japan-Korea Graduate Student Academic Forum. In the same year, she was awarded the “National Scholarship for Postgraduates”. She was awarded twice the “Three Merits Student award”, and awarded twice the “First Class Academic Scholarship” of Dalian Ocean University during her master's education. As a graduate student, her study mainly focused on the impact of environmental stress on morphology and physiology in marine life. In 2017, she was awarded “Outstanding Graduates in Dalian” and “Outstanding Graduate of Dalian Ocean University” certificates based on her master thesis “Transcriptome study on the response of sea urchin larvae to seawater acidification”.

After completion of her MSc degree in 2017, she was awarded a scholarship from the China Scholarship Council (CSC) to carry out a PhD research project at the Institute of Biology of Leiden University under the supervision of Prof. Herman P. Spaink and Prof. Fons J. Verbeek. In this thesis, she investigated the function of toll-like receptor 2 in the innate immune system by using the zebrafish infectious model and zebrafish inflammatory model. The results of the research were published in BMC Genomics, British Journal of Pharmacology, and Frontiers in Cell and Developmental Biology. Currently, she is working as a postdoc at the Institute of Biology Leiden on non-tuberculous mycobacterial infections funded by the Innovative Medicines Initiative (IMI) of the European Union.
Publication list

