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Neuroimmune guidance cues for vascular health

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Chapter 9

Appendices

9.1 Curriculum Vitae

Huayu Zhang was born in Qiqihar, Heilongjiang Province, China in 1989. In 2007, he started his undergraduate study in Peking University Health Science Center majoring in basic medicine. From 2010, he joined the research group led by Prof. Liu Guoqing and Dr. Qi Rong investigating the anti-inflammatory effect of dendrimers. He obtained Bachelor of Science degree in 2012 and was awarded the Leiden University Excellent Scholarship for his master of science study in Leiden University Medical Center majoring biomedical sciences. He did a 6-month internship in Endocrinology department, Leiden University Medical Center, on the subject of effect of exendin-4 in atherosclerosis and liver inflammation, supervised by Prof. Patrick Rensen, Prof. Yanan Wang and Dr. Edwin Parlevliet. With a sponsorship from Eurolife foundation, he did a 9-month exchange studentship in Roslin insitute, University of Edinburgh, on the subject of influence of CpG dinucleotide frequencies on flu infectivity, supervised by Prof. Peter Simmonds and Dr. Nicky Atkinson.

After obtaining his Master of Science degree in 2014, he joined the group led by Prof. Anton Jan van Zonneveld and Dr. Janine van Gils for his PhD training. His research focused on the function of neuronal guidance cues in endothelial cell and monocyte biology and the implication of monocytic expression of neuronal guidance cues in coronary heart disease patients.

From 2019, he has been working as a research fellow in Centre for Medical Informatics and Advanced Care Research Centre, University of Edinburgh focusing on the application of natural language processing tools, knowledge graph and machine learning tools in improving patient care.

9.2 List of Publications

1. **Zhang, H.**, Ferguson, A., Robertson, G., Jiang, M., Zhang, T., Sudlow, C., Smith, K., Rannikmae, K. & Wu, H. Benchmarking network-based gene prioritization methods for cerebral small vessel disease. *Brief Bioinform* (2021).
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9. **Zhang, H.**, Prins, J., Vreeken, D., Florijn, B. W., de Bruin, R. G., van Hengel, O. R., van Essen, M. F., Duijs, J. M., Van Esch, H., van der Veer, E. P., van Zonneveld, A. J. & Gils, J. M. V. Comprehensive analysis of neuronal guidance cue expression regulation during monocyte-to-macrophage differentiation reveals post-transcriptional regulation of semaphorin7A by the RNA-binding protein quaking. *Innate Immun* **27** (2020).
 10. **Zhang, H.**, Shi, T., Wu, X., Zhang, X., Wang, K., Bean, D., Dobson, R., Teo, J., Sun, J., Zhao, P., Li, C., Dhaliwal, K., Wu, H., Li, Q. & Guthrie, B. Risk prediction for poor outcome and death in hospital in-patients with COVID-19: derivation in Wuhan, China and external validation in London, UK. *medRxiv*, 2020.04.28.20082222 (2020).
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