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Regional diversity in oligodendrocyte progenitor cells

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Curriculum vitae & list of publications



Dennis H. Lentferink

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Curriculum Vitae

Dennis Hendrikus Lentferink was born on November 3, 1989 in Almelo, the Netherlands. After graduating from high school at R.K. Scholengemeenschap St. Canisius (Tubbergen & Almelo) in 2008, he moved to Groningen to study Life Science & Technology at the University of Groningen. During the bachelor program he performed an internship in the lab of prof. dr. Roelof Hut (Chronobiology unit, University of Groningen) investigating the circadian rhythm of red deer, which resulted in a co-authorship on a scientific paper. Dennis then joined the department of Neuroscience (University Medical Center Groningen) and wrote his bachelor thesis “The Aging Brain” under the supervision of dr. Divya Raj and prof. dr. Erik Boddeke. This thesis elaborated on molecular mechanisms of aging in the central nervous system. Dennis obtained his bachelor’s degree in 2012. He then continued his education at the University of Groningen with the Research Master Behavioral and Cognitive Neurosciences, in which he specialized in Molecular Neuroscience. During this master program he first joined the lab of prof. dr. Ellen Nollen at the European Research Institute for the Biology of Aging (ERIBA, Groningen) in 2013. Here he studied the role of *tdo-2* in aging and proteotoxicity in the roundworm *C. elegans* under the supervision of dr. Helen Michels. Dennis then joined the labs of profs. drs. Christien Dijkstra and Sandra Amor at the Vrije Universiteit Medical Center Amsterdam where he studied the role of macrophage activation on neuroprotection, under the supervision of dr. Daphne Vogel. Dennis obtained his master’s degree in 2014, after which he wrote a research proposal for a PhD project with dr. Wia Baron. Pending funding, he started initially as a technician in the lab of dr. Wia Baron at the department of Cell Biology (University Medical Center Groningen). The research proposal was funded later in 2015. During his PhD, Dennis studied differences in oligodendrocyte progenitor cells of the grey and white matter of the brain. The findings of this study are presented in this thesis. In 2020 Dennis moved to the USA to pursue a scientific career. Here, Dennis first worked as lab manager in the COVID19 diagnostics lab of the University of Virginia (Charlottesville, USA). In 2021 Dennis started a post-doctoral research project in the lab of dr. Ukpong Eyo (department of Neuroscience, University of Virginia), where he will investigate the interaction between microglia and the vasculature, and between microglia and oligodendrocyte progenitor cells in health and disease.

List of publications

Lentferink, D. H., Bogie, J. F. J, Werkman, I. L., Oost, L., Swinnen, J. V., Hendriks, J. J. A. & Baron, W. Myelin elicits different responses in regionally-distinct oligodendrocyte progenitor cells and in microglia and macrophages in vitro. (2021). *submitted*.

Werkman, I. L., Lentferink, D. H. & Baron, W. Macroglial diversity: white and grey areas and relevance to remyelination. *Cellular and Molecular Life Sciences* (2020). doi:10.1007/s00018-020-03586-9

Lentferink, D. H., Jongsma, J. M., Werkman, I. & Baron, W. Grey matter OPCs are less mature and less sensitive to IFN γ than white matter OPCs: Consequences for remyelination. *Sci. Rep.* **8**, 2113 (2018). doi:10.1038/s41598-018-19934-6

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