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Cognitive Pathology in Parkinson's Disease

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List of Publications and Curriculum Vitae

List of Publications

van der Zee S, Müller MLTM, Kanel P, van Laar T, Bohnen NI. Cholinergic Denervation Patterns Across Cognitive Domains in Parkinson's Disease. *Mov Disord*. 2021 Mar;36(3):642-650.

Boertien JM, **van der Zee S**, Chrysou A, Gerritsen MJJ, Jansonius NM, Spikman JM, van Laar T; PPNN Study Group. Study protocol of the DUtch PARkinson Cohort (DUPARC): a prospective, observational study of de novo Parkinson's disease patients for the identification and validation of biomarkers for Parkinson's disease subtypes, progression and pathophysiology. *BMC Neurol*. 2020 Jun 13;20(1):245.

Kanel P, Müller MLTM, **van der Zee S**, Sanchez-Catasus CA, Koeppe RA, Frey KA, Bohnen NI. Topography of Cholinergic Changes in Dementia With Lewy Bodies and Key Neural Network Hubs. *J Neuropsychiatry Clin Neurosci*. 2020 Fall;32(4):370-375.

van der Zee S, Vázquez García D, Elsinga PH, Willemsen ATM, Boersma HH, Gerritsen MJJ, Spikman JM, van Laar T. [¹⁸F]Fluoroethoxybenzovesamicol in Parkinson's disease patients: Quantification of a novel cholinergic positron emission tomography tracer. *Mov Disord*. 2019 Jun;34(6):924-926.

van der Zee S, Vermeiren Y, Fransen E, Van Dam D, Aerts T, Gerritsen MJ, Spikman JM, van Laar T, De Deyn PP. Monoaminergic Markers Across the Cognitive Spectrum of Lewy Body Disease. *J Parkinsons Dis*. 2018;8(1):71-84.

Boer JC, Carney KE, **van der Zee S**. Differentiation of mouse embryonic stem cells into spiral ganglion neurons: a therapeutic approach to deafness. *J Neurosci*. 2009 May 6;29(18):5711-2.

Curriculum Vitae

Sygrid van der Zee was born on March 2nd, 1987 in Warns, the Netherlands. After finishing her pre-university education in 2004 she started with the bachelor Life Science and Technology at the University of Groningen, where she specialized in Molecular Physiology and Pharmacology. She travelled for a year in Australia and New Zealand before starting her research master Behavioural and Cognitive Neuroscience in 2008. Within this master she specialized in Molecular and Clinical Neuroscience, and she performed two research projects. Her minor thesis concerned the relationship between neurological condition and cognitive development in 2 year old children. For her major thesis she studied the association of tics and soft neurological signs with streptococcal antibody levels at the University of South Florida, under the supervision of prof. dr. T. Murphy.

After finishing her research master in 2010, she continued her studies with a second master in the field of clinical neuropsychology, which she completed with her thesis on cognitive impairment in newly diagnosed patients with Parkinson's disease. She graduated cum laude in 2014 and started her PhD project on the same topic at the department of neurology and neuropsychology at the University Medical Center Groningen, which resulted in the current dissertation. Her project was supervised by prof. dr. T. van Laar and prof. dr. J.M. Spikman. During her PhD, she spent 3 months working on a joined project on the neurobiology of Parkinson's disease at the Laboratory of Neurochemistry and behaviour, at the University of Antwerp, Belgium, supervised by prof. dr. P.P. de Deyn. In addition, she spent 6 months at the University of Michigan, USA, working at the Radiology department on cholinergic neuroimaging in Parkinson's disease with prof. dr. N.I. Bohnen and dr. M.L.T.M. Müller.

From 2018 on Sygrid is combining her research on Parkinson's disease with her clinical work as neuropsychologist at the outpatient clinic for Huntington's disease, Grou. After finishing her PhD project she will continue her clinical work there, together with her research as a post-doc researcher at the University Medical Center Groningen.