

Johannes W. de Jong

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EDUCATION

Utrecht University

PhD, Neuroscience

Utrecht, The Netherlands

June 2015

Utrecht University

MSc, Neuroscience and Cognition GPA: 4.0/4.0

Utrecht, The Netherlands

August 2010

Utrecht University

BSc, Biomedical Sciences GPA: 6.8/10

Utrecht, The Netherlands

August 2008

WORK EXPERIENCE

UC Berkeley

Postdoc, Lammel Lab

Berkeley, CA

March 2015 – present

Research project: Drug-Evoked Plasticity in the Mesolimbic Dopamine System

Yale University

Intern, DiLeone Lab

New Haven, CT

January 2010 – August 2010

Research project: Analysis of Transcriptional Plasticity After Food Restriction.

Utrecht University Medical Center

Intern, Adan Lab

Utrecht, The Netherlands

December 2008 – August 2009

Research project: Food Anticipatory Activity

HONORS AND AWARDS

- NARSAD Young Investigator Award (2020 - 2021)
- Trainee and professional development award from the Society for Neuroscience. San Diego, USA (2018)
- Honorary mention (9 out of 123 posters). Gordon Research Conference on Optogenetics and Imaging. Newry, USA (2018)
- Poster prize (1st prize) Winter Conference on Brain research in Whistler, Canada (2018)
- David de Wied Travel Award, to attend the Society for Neuroscience Meeting in Washington, USA (2014)
- Conference Travel Award from the Dutch Society for Pharmacological Sciences, to attend the Dopamine 2013 conference in Alghero, Italy (2013)
- Conference Travel Award from the Dutch Society for Pharmacological Sciences, to attend the Society for Neuroscience Meeting in San Diego, USA (2013)
- Honor student at Utrecht University, (2006 - 2008)

SKILLS

Data Analysis and Machine Learning: Extensive experience using Python and MATLAB for data acquisition and analysis, including custom-written software for semi-automated clustering and analysis of in-vivo electrophysiology data, calcium imaging and whole-brain microscopy. Experience with deep learning (MATLAB, Tensorflow and Keras). Open source code at: github.com/handejong.

Animal Work: Experience with both rats and mice, operant behavior, intracranial surgery, phenotyping, pharmacology, *in-vivo* and *ex-vivo* electrophysiology, optogenetics and calcium imaging.

Molecular Work: Experience with bacteria, human cells and viruses, Quantitative PCR, Immunohistochemistry, (Radioactive) in situ hybridization, cloning, production and design of viral vectors (AAV and Lenti) for knockdown or over-expression of genes both *in-vitro* and *in-vivo*.

Other Skills: Teaching experience: physiology, pharmacology and neuroscience to undergraduate medical and biomedical students. Research project supervision of psychology and biomedical master's students.

OTHER ACTIVITIES

- Volunteer at VICTAS addiction health center (Utrecht, The Netherlands)
- Session chair and organizer at the Dutch Neuroscience Meeting (Lunteren, The Netherlands)
- Student representative to the Utrecht University Board of Studies of the Graduate School of Life Sciences

SELECTED PUBLICATIONS

- J. W. de Jong, S. A. Afjei, I. Pollak Dorocic, J. R. Peck, C. Liu, C.K. Kim, ... S. Lammel (2019) **A Neural Circuit Mechanism for Encoding Aversive Stimuli in the Mesolimbic Dopamine System.** *Neuron*
- H. Yang, J.W. de Jong, Y. Tak, J. Peck, H.S. Bateup & S. Lammel (2018) **Nucleus Accumbens Subnuclei Regulate Motivated Behavior via Direct Inhibition and Disinhibition of VTA Dopamine Subpopulations.** *Neuron*
- J. P. H. Verharen, J.W. de Jong, T.J.M. Roelofs, C.F.M. Huffels, ... L.J.M.J. Vanderschuren (2018) **A neuronal mechanism underlying decision-making deficits during hyperdopaminergic states.** *Nature Communications*

- J.W. de Jong, L.J. Vanderschuren, R.A. Adan (2016) **The mesolimbic system and eating addiction: what sugar does and does not do.** Current Opinion in Behavioral Sciences
- J.W. de Jong, T.J.M. Roelofs, F.M.U. Mol, ... R.A. Adan (2015) **Reducing Ventral Tegmental Dopamine D2 Receptor Expression Selectively Boosts Incentive Motivation.** Neuropsychopharmacology
- J.W. de Jong, K.E. Meijboom, L.J.M.J. Vanderschuren, R.A.H. Adan (2013) **Low control over palatable food intake in rats is associated with habitual behavior and relapse vulnerability: individual differences.** PLoS ONE
- J.W. de Jong, L.J.M.J. Vanderschuren, R.A.H. Adan (2012) **Towards an animal model of food addiction.** Obes Facts

For a complete overview see: Google Scholar.