



David Thonnard

Neuroscientist
Data-analyst

- July 26, 1985 (35)
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About Me

I am a neuroscientist with a biomedical and psychological background. For the past 8 years I have been studying cognitive flexibility. More recently, I have gained interest in statistics and programming, which helps me to improve my data analyses.

Languages

- Dutch
- English
- French
- Spanish
- German

Hard Skills

- Laboratory Skills
- ☒ Neurosurgical lesions
- ☒ Neurosurgical implantations
- ☒ IHC/nissl stainings
- ☒ Brain perfusion/extraction
- ☒ Injections (IP/SC/IM)
- ☒ Optogenetics
- ☒ Flowcytometry

Working Experience

- currently **QA Analyst/Consultant** Johnson&Johnson
Quality Assurance in the European Distribution Center (EDC) for Medical Devices (Johnson & Johnson) as consultant for Altran - Capgemini.
- 2013-2020 **Neuroscientist** KU Leuven - Brain and Cognition
Preclinical brain research. Main topic: cognitive flexibility. Lab of Prof. Dr. Rudi D'Hooge.
- 2008 **Lab technician** University Ghent - Dep. of Virology
Quantification of cellular immunological memory after measles vaccination through intracellular cytokine detection using flowcytometry. Lab of Prof. Dr. Geert Leroux-Roels.

Education

- 2014-2020 **PhD Neuroscience** KU Leuven
Thesis: Pharmacological mechanisms and telencephalic interactions involved in neurocognitive flexibility
- 2008-2013 **Master of Science in Theoretical and Experimental Psychology** Ghent University
Thesis: Jouw pijn is mijn pijn, maar... "Does it matter if you're black or white?"
- 2005-2008 **Bachelor in Biomedic Laboratory Technology, Pharmaceutical and Biological Techniques** University College - Ghent
Thesis: Quantification of cellular immunological memory after measles vaccination through intracellular cytokine detection.

Grants

- 2014 Doctoraatsbeurs Strategisch Basisonderzoek IWT/FWO

Conferences & Presentations

- 08/2017 **European Behavioural Pharmacology Society** Heraklion - Greece
Perseverative behaviour in low-dose MK801-treated mice
- 07/2017 **RIKEN Brain Science Institute** Tokyo - Japan
Impaired reversal learning after NMDA-induced lesions in the PFC-HC network
- 05/2017 **Belgian Society for Neuroscience** Ghent
Effect of MK801 on learning and memory
- 07/2016 **Federation of European Neurosciences Societies** Copenhagen - Denmark
Cognitive flexibility: Modulation of prefrontal-hippocampal network

Certificates and Courses

- 03/2020 Introduction to SAS FLAMES
- 01/2020 Python for Machine Learning VSC - KU Leuven
- 01/2020 Python for Data Science VSC - KU Leuven
- 01/2020 Scientific Python VSC - KU Leuven
- 10/2019 Matlab programming introduction VSC - KU Leuven
- 10/2019 Linux scripting VSC - KU Leuven
- 12/2016 Non-parametric statistics Leuven Statistics Research Centre

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Behavioural Testing

- ✓ Morris Water Maze
- ✓ T-Maze
- ✓ Rotarod
- ✓ Open Field
- ✓ Elevated Plus Maze
- ✓ Touchscreen visual discrimination
- ✓ Odor discrimination

Computer Skills

- ✓ R
- ✓ SAS
- ✓ Python
- ✓ SQL
- ✓ Stata
- ✓ SPSS
- ✓ Matlab
- ✓ C
- ✓ LaTeX

 Driver's license: B (2004)

Soft Skills

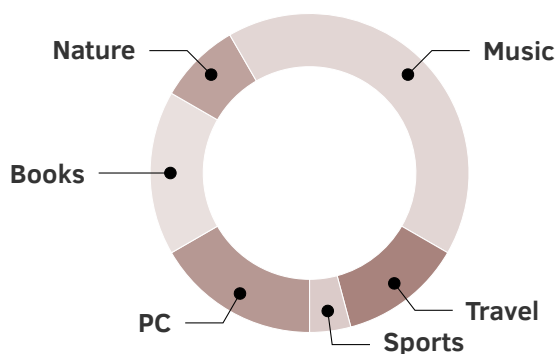


07/2014	FELASA C - Laboratory Animal Sciences	Biomedical Sciences - KU Leuven
03/2010	Vaccinations in the 21 st century	Ghent University
02/2008	The tumor micro-environment: new insights and therapeutic perspectives	Ghent University
03/2007	Viral infections during pregnancy and in children. Disease and bio-safety in the lab	Ghent University
2007	Kjeldahl method	Ghent University
2004	Business Management	OLVL Highschool

Publications

2020	Comparison between touchscreen operant chambers and water maze to detect early prefrontal dysfunction in mice. <i>Van den Broeck, L., Hansquine, P., Sierksma, A., Thonnard, D., Vegh-Callaerts, Z. & D'Hooge, R.</i> Genes, Brain and Behavior. 2020;e12695
2019	Differential effects of post-training scopolamine on spatial and non-spatial learning tasks in mice <i>Thonnard, D., Callaerts-Vegh, Z., D'Hooge, R.</i> Brain Research Bulletin, 152, 52-62
2019	NMDA receptor dependence of reversal learning and the flexible use of cognitively demanding search strategies in mice <i>Thonnard, D., Dreesen, E., Callaerts-Vegh, Z., D'Hooge, R.</i> Progress in Neuropsychopharmacology & Biological Psychiatry, 90, 235-244
2011	Oorzaken en gevolgen van een verhoogd glucose metabolisme bij kanker <i>Thonnard, D., Vermeulen, S.</i> Tijdschrift van de Belgische Vereniging van Laboratorium Technologen, 38(1), 17-23

Extra-curricular Activities



October 26, 2020

David Thonnard