



# David Thonnard

Neuroscientist 

-  July 26, 1985 (34)
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## About Me

I am a neuroscientist with a biomedical and psychological background. For the past 5 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 **Neuroscientist** KU Leuven - Brain and Cognition  
Finalizing PhD dissertation: "Cognitive flexibility: The role of the orbitofrontal cortex and ventral hippocampus, and the effect of MK-801 and scopolamine". 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

- 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 Biomedical 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

- 01/2020 Python for Machine Learning VSC - KU Leuven
- 03/2020 Introduction to SAS FLAMES
- 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
- 07/2014 FELASA C - Laboratory Animal Sciences Biomedical Sciences - KU Leuven
- 03/2010 Vaccinations in the 21<sup>st</sup> 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

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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
- ✓ Stata
- ✓ SPSS
- ✓ Matlab
- ✓ C
- ✓ LaTeX
- ✓ Ethovision
- ✓ Any-Maze

🚗 Driver's license: B (2004)

## Soft Skills



2007

Kjeldahl method

Ghent University

2004

Business Management

OLVL Highschool

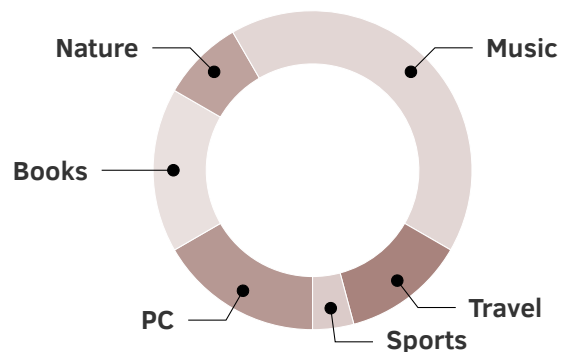
## Publications

- 2019 **Differential effects of post-training scopolamine on spatial and non-spatial learning tasks in mice**  
*Thonnard, D., Callaerts-Vegh, Z., D'Hooge, R.*  
Brain Research Bulletin, 152, 52-62
- 2019 **NMDA receptor dependence of reversal learning and the flexible use of cognitively demanding search strategies in mice**  
*Thonnard, D., Dreesen, E., Callaerts-Vegh, Z., D'Hooge, R.*  
Progress in Neuropsychopharmacology & Biological Psychiatry, 90, 235-244
- 2011 **Oorzaken en gevolgen van een verhoogd glucose metabolisme bij kanker**  
*Thonnard, D., Vermeulen, S.*  
Tijdschrift van de Belgische Vereniging van Laboratorium Technologen, 38(1), 17-23

## Extra-curricular Working Experience

- 07/2011 **Employee** Federal Public Service - Ghent  
Special Tax Inspection.
- 08/2009 **Employee** Federal Public Service - Brussels  
Foreign Affairs.
- 07/2009 **Employee** Federal Public Service - Ghent  
Tax Inspection and Recovery.
- 08/2008 **Lab technician** Provincial Centre for Environmental Research - Ghent  
Quantitative determination of nitrogen contained in organic substances with the Kjeldahl method.
- 08/2007 **Lab technician** Provincial Centre for Environmental Research - Ghent  
Quantitative determination of nitrogen contained in organic substances with the Kjeldahl method.
- 08-09/2006 **Food quality inspector** La Lorraine NV Industrial Bakery - Ninove  
Quality and sustainability of bakery food products.

## Extra-curricular Activities



June 18, 2020

David Thonnard