

**3<sup>rd</sup> Postgraduate ONWAR Course in Behavioral Neuroscience 2011** **In vivo Phenotyping of Mutant Rodents: Integrating Neural Activity, Neurochemistry, Heart Rate & Behavior**  
**Organizers: Oliver Stiedl (main), Tommy Pattij & Matthijs Verhage**

Last update: 15-08-2011

**Date: August 22-27, 2011 / Room F-612: Science Building, 6th floor**

Time & Date: Monday 22-08-11 / F-612	Tuesday 23-08-11 / F-612	Wednesday 24-08-11 / F-612	Thursday 25-08-09 / F-612	Friday 26-08-09 / F-612	Saturday 27-08-09 / HG-07A09 (main building)
9:15-9:30 Welcome & General	Introduction	Introduction	Introduction	Introduction	Introduction
9:30-10:30 Introduction of Participants	Lecture 4 <b>T Pattij</b>	Lecture 7 <b>S Spijker</b>	Lecture 10 <b>J Peters</b>	Lecture 13 <b>B Ellenbroek</b>	Lecture 16 <b>O Stiedl</b>
10:30-11:30 with ppt presentations	Lecture 5 <b>M Kas</b>	Lecture 8 <b>T Mulder</b>	Lecture 11 <b>J Verhaagen</b>	Lecture 14 <b>C Winstanley</b>	Lecture 17 <b>P Svenningsson</b>
11:30 until 13:00 Lunch break	Lunch break and discussion with the speakers of the day	Lunch break and discussion with the speakers of the day	Lunch break and discussion with the speakers of the day	Lunch break and discussion with the speakers of the day	Social: Lunch break and discussion with the speakers and Amsterdam boat tour
13:00-14:00 Lecture 1 <b>P Phillips</b>	Lecture 6 <b>S von Hörsten</b>	Lecture 9 <b>I Golani</b>	Lecture 12 <b>C Gross</b>	Swammerdam Lecture M-129	
14:15 until 16:00 Lecture 2 <b>M Leloux*</b>	Practicals VUMC	Practicals VU	Practicals	Lecture 15 <b>K Deisseroth</b>	
until 17:00 Lecture 3 <b>M Leloux*</b>	T. Mulder - In vivo e.-phys. T. Pattij - 5CSRTT, etc.	Practicals	Practicals	Practicals	

Lectures	Speaker	Topic/Title	Affiliation
Lecture 1	<b>Paul EM Phillips</b>	Measuring rapid dopamine transmission during behavior with fast-scan cyclic voltammetry	Seattle, WA, USA
Lectures 2&3	<b>Mirjam Leloux</b>	Intellectual Property, Confidentiality and Technical Transfer	Ede, NL
Lecture 4	<b>Tommy Pattij</b>	Neuropharmacology of impulsivity	VUmc Amsterdam, NL
Lecture 5	<b>Martien JH Kas</b>	Genetics of behavioral domains across the neuropsychiatric spectrum: of mice and men	Utrecht, NL
Lecture 6	<b>Stephan von Hörsten</b>	Comprehensive characterization of transgenic rat and mouse models for human diseases (HD, SCA17, PD & AD)	Erlangen-Nürnberg, DE
Lecture 7	<b>Sabine Spijker</b>	From behavior to gene and protein regulation	VU Amsterdam, NL
Lecture 8	<b>Antonius B (Tonny) Mulder</b>	In vivo electrophysiology during behavioral experiments	VUmc Amsterdam, NL
Lecture 9	<b>Ilan Golani</b>	The developmental dynamics of free mouse exploratory behaviour	Tel Aviv, IL
Lecture 10	<b>Jamie Peters</b>	Extinction: from fear to drug addiction	VUmc Amsterdam, NL
Lecture 11	<b>Joost Verhaagen</b>	Viral vectors as tools to express genes in the CNS and PNS: basic science and therapeutic applications	NIN Amsterdam, NL
Lecture 12	<b>Cornelius Gross</b>	Dissecting behavior with pharmacogenetic tools to characterize fear circuits	Monterotondo, IT
Lecture 13	<b>Bart Ellenbroek</b>	Animal models of schizophrenia	Wellington, New Zealand
Lecture 14	<b>Catharine A Winstanley</b>	Modeling gambling-related decision-making and cognitive function in rodents	Vancouver, Canada
Lecture 15	<b>Karl Deisseroth</b>	Optogenetics: technology for controlling the brain with light	Stanford, CA, USA
Lecture 16	<b>Oliver Stiedl</b>	Emotional behavior and autonomic function in fear learning and its expression	VU Amsterdam, NL
Lecture 17	<b>Per Svenningsson</b>	Consequences of adaptor protein deletion for serotonin receptor subtype clustering and behavioral effects	Stockholm, SE

\*Lectures mandatory for BrainTrain students and optional for ONWAR students: complementation by CNCR students and scientists!

Practicals (parts 1 & 2 in KDL)		Parts 3-5 are performed in A-0	
<b>Block 1: Tommy Pattij</b>	<b>Block 3: Torben Hager</b>	<b>Block 4: Anton Pieneman</b>	<b>Block 5: René Jansen</b>
Behavioral pharmacology, impulsivity	ECG measurements in fear learning	Surgical techniques in mice: viral vector application,	Depression-like behavior FST
<b>Block 2: Tonny Mulder</b>	(fear conditioning, passive avoidance)	in vivo telemetry surgery, acute brain injections	modified Barnes maze
In vivo electrophysiology			