



Course title: BEHAVIOURAL PHENOTYPING OF RODENT DISEASE MODELS – POTENTIAL AND PITFALLS

Time: Aug. 28 – Sept. 2, 2016

Place: Tartu / Pyhäjärve Spa Hotel (<http://www.pyhajarve.com/en/>), Estonia

Organizers: University of Helsinki, University of Eastern Finland, University of Tartu

Maximum number of students: 60, acceptance in the order of registration

Credit points: 2 ECTS for attendance, 3 ECTS for attendance with poster presentation

Summary: The target group for this lecture course are doctoral and post-doctoral students working in broad areas of neuroscience and pharmacology. The aim of the course is to introduce a variety of methods available for assessment of rodent behaviour in laboratory conditions with focus on selection of appropriate methods and understanding of possible pitfalls in experimental design and data interpretation. A special emphasis is given to translational potential of preclinical neurobehavioural studies. In addition, demonstration of modern animal facility and laboratories for behavioural phenotyping will be organised.

Format: A total of 24 lectures (1 hour each) from renowned international speakers during 5 days. Evening discussions and round tables will be arranged for special interactive discussion in groups. There is a possibility to show own video material and ask questions from the senior teachers. Presentation of the poster at the meeting is encouraged. There will be a site visit to the new Center of Translational Medicine at the University of Tartu, with laboratory demonstrations and an exhibition by manufacturers of research instruments for behavioural assessment.

Registration and fees: The course itself is free for students and post-docs from academic institutions. However, registration is required along with pre-payment of 350 €, covering accommodation in double rooms, all meals and other costs during the course. Fee for the representatives of drug companies and other commercial institutions is 950 €, including the same package. Deadline for registration – June 1, 2016, payments by June 15, 2016.

Payment methods: Making a transfer to the University of Tartu account SEB Pank IBAN: EE281010102000234007, BIC: EEUH22X, please indicate "Rodent Models 2016" in the explanation. More additional information: Marja-Liisa Rattasep (University of Tartu, marja-liisa.rattasep@ut.ee)

Link to registration: at <http://sime.ut.ee/>

Travel information: Take the flight or ferry to Tallinn, from Tallinn take the bus to Tartu (departures every 30 minutes), transportation from Tartu to Pyhäjärve on August 28 will be arranged by organizers (details given later, information on your time of arrival in Tartu is mandatory). On Sept. 2, return to Tallinn will also be organized (arrival in Tallinn around 3 p.m.)

Organizing team: Vootele Voikar (University of Helsinki, vootele.voikar@helsinki.fi); Heikki Tanila (University of Eastern Finland, heikki.tanila@uef.fi); Jukka Jolkkonen (University of Eastern Finland, jukka.jolkkonen@uef.fi); Eero Vasar (University of Tartu, eero.vasar@ut.ee)

Programme:

DATE	Day	TIME	LECTURER	TITLE / TOPIC
			1h per lecture (incl. discussion)	
28-08-16	Su		ARRIVAL (Pyhäjärve)	
29-08-16	Mo			
		09:00	OPENING	GENERAL ASPECTS
		09:30	1 Jaakko Mononen (Kuopio, FIN)	An introduction to animal behaviour: Why do animals behave as they behave?
		10:30	coffee / tea	
		11:00	2 Vootele Voikar (Helsinki, FIN)	Behavioural phenotyping of laboratory mice - why and how?
		12:00	3 Petteri Piepponen (Helsinki, FIN)	Experimental planning and statistical guidelines
		13:00	LUNCH	MOTOR AND SENSORY PHENOTYPING
		14:30	4 Jukka Jolkkonen (Kuopio, FIN)	How to measure behavioral impairment in stroke rats
		15:30	5 Veronica Francardo (Lund, SWE)	Parkinson's disease and L-DOPA-induced dyskinesia
		16:30	coffee / tea	
		17:00	6 Henri Leinonen (Kuopio, FIN)	Vision tests in rodents
		18:00	7 Boriss Sagalajev (Helsinki, FIN)	Behavioural phenotyping in chronic pain models
		19:30	GET-TOGETHER	Posters
30-08-16	Tu			NEUROPSYCHIATRY
		08:30	8 Jaanus Harro (Tartu, EST)	Anxiety: How to measure and why?
		09:30	9 Iiris Hovatta (Helsinki, FIN)	How to measure and induce depression-like behavior in mice?
		10:30	coffee / tea	
		11:00	10 Markus Forsberg (Kuopio, FIN)	Pharmacological rodent models of schizophrenia
		12:00	11 Petri Hyytiä (Helsinki, FIN)	Rodent models of addiction: from face validity to homology
		13:00	LUNCH	SOCIAL BEHAVIOUR
		14:30	12 Markus Wöhr (Marburg, GER)	Social behaviour: Ultrasonic communication in rodents
		15:30	13 Daniela Winkler (Göttingen, GER)	Models and tests for assessing social behavior
		16:30	coffee / tea	
		17:00	14 Eelke Snoeren (Tromsø, NOR)	Sexual behavior in rats: from pharmacology to behavior
		18:00	DEMOS / DISCUSSIONS	Video-presentations / Posters
		19:30	DINNER	
31-08-16	We			COGNITION
		08:30	15 Heikki Tanila (Kuopio, FIN)	How to study cognitive functions in rodents?
		09:30	16 Abdul Mohammed (Stockholm, SWE)	Environmental influences on cognition
		10:30	coffee / tea	
		11:00	17 Ekrem Dere (Göttingen, GER)	Episodic memory: Of mice and man
		12:00	18 David Wolfer (Zurich, SUI)	Assessing mouse behavior in a social home cage context
		13:00	LUNCH	From Gene to Behaviour
		14:30	19 Simon Glerup (Aarhus, DEN)	From genes to behaviour - role of sortilins in ADHD and addiction
		15:30	20 Jukka Puoliväli (Kuopio, FIN)	High-throughput phenotyping in contract research organization (Charles River)
		16:30	coffee / tea	
		17:00	DEMOS / DISCUSSIONS	Video-presentations, Round-table / Posters
		18:00	SOCIAL INTERACTION	e.g. Football, outdoor activities
		19:30	DINNER	
01-09-16	Th	09:00	FULL DAY IN LAB ANIMAL CENTER; Inst. Biomed. Transl. Med.	Modern Laboratory Animal Center, Behavioural Laboratories, Imaging
				TRANSLATIONAL APPROACHES
		15:00	21 Rebecca Trueman (Nottingham, UK)	Hurdles of incorporating behavioural tests in phase III multicentre trials
		16:00	22 Hannelore Ehrenreich (Göttingen, GER)	Construct-valid mouse models of neuropsychiatric phenotypes
				EXHIBITORS' DAY (9-17 in Tartu)
		19:30	DINNER	
02-09-16	Fr			TRANSLATIONAL APPROACHES
		09:00	23 Eero Vasar (Tartu, EST)	In search of lost time: first episode psychosis
		10:00	24 Alex Zharkovsky (Tartu, EST)	Translational problems in pharmacology
		11:00	COURSE EVALUATION	
			DEPARTURE	