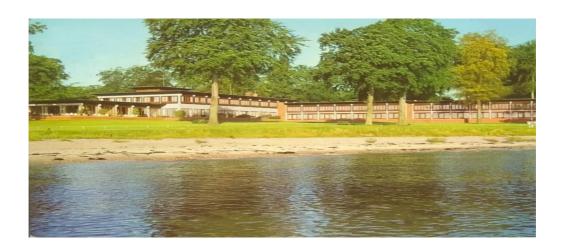
# XXX Annual Meeting Danish Society for Neuroscience (DSfN)

# "The principles of learning in nature, machines and disease"

May 17 - 18; 2016

Hotel Hesselet, Nyborg



## Symposium organizers

Niels Plath, H. Lundbeck A/S Duda Kvitsiani, University of Aarhus

## Location

Hotel Hesselet, Christianslundsvej 119, 5800 Nyborg, Denmark Phone +45 65313029

## Registration and payment

Early registration (before March 15) Members of DSfN: DKK 3200 Non-members: DKK 4000

Students: DKK 1200

Danish Society for Neuroscience (DSfN) Annual meeting, May 17-18, 2016 Hotel Hesselet, Nyborg, DK

"The principles of learning in nature, machines and disease"

# Tuesday May 17th

09.00 - Arrival, coffee and registration

10.00 - Welcome

10.10 - **Introductory lecture**: Speaker pending.

Biological learning and machine learning: Commonalities, inspiration and differences.

# Session 1: Computational models of learning, machine learning – in theory and applied

Chair: Niels Plath, H. Lundbeck A/S

- 11.00 Paolo Marcatili, Technical University of Denmark, DK. *Machine learning in computational biology: common problems and solutions*
- 11.35 Ole Winther, Technical University of Denmark, DK. *Data science, AI and deep learning*
- 12.10 Lunch
- 13.00 Michael Brammer, King's College London, UK.

  Prediction and classification of mental illness using machine learning
- 13.35 Short break

#### **Session 2: Natural models of Learning: Molecular pathways**

Chair: Poul Henning Jensen, University of Aarhus, DK

- 13.45 Sadegh Nabavi, Dandrite, Aarhus University, DK.

  Synaptic tagging and capture: from synapses to behavior
- 14.20 Simon Glerup, Dept. Biomedicine, Aarhus University, DK. *Sortilins and sorting out what to remember*
- 14.55 Clive Bramham, University of Bergen, Norway *The Arc of synaptic memory*
- 15.30 Coffee and cake, posters
- 16.00 Marie Carlen, Karolinska Institute, Sweden Prefrontal parvalbumin neurons in control of attention

## 16.40 – **DataBlitz** 5x10 min (selected abstracts)

Organizer: Trevor Owens, University of Southern Denmark, DK

18.30 - Drinks and Dinner

#### Wednesday May 18th

07.30 - Breakfast

# Session 3: Natural models of Learning: Neural circuits

Chair: Albert Gjedde, Univ. of Copenhagen, DK

- 08.30 Armin Lak, University Cambridge, UK.

  Dopamine learning signals: from perception to economic decisions
- 09.05 Jesper Mogensen, University of Copenhagen, DK

  Learning in the intact and injured brain: Neurocognitive organization and reorganization
- 09.40 Ron Kupers, University of Copenhagen, DK *Learning in the Visually-Deprived Brain: Insights From Darkness*
- 10.15 Coffee
- 10:30 Albert Gjedde, University of Copenhagen, DK Learning by doing: Neuroimaging of sensation seeking

## Session 4: Learning deficits linked to disease

Chair: Niels Plath, H. Lundbeck A/S, DK

- 11.10 Barbara Sahakian, University Cambridge, UK. *Title pending*
- 12.00 Lunch
- 13.00 Andreas Heinz, Charite Berlin, DE Learning mechanisms in affective, addictive and psychotic disorders
- 13.45 Steen Hasselbalch, University of Copenhagen, DK

  Memory problems in Mild Cognitive Impairment and Alzheimer's dementia
- 14.30 Short break
- 14.45 **Closing lecture:** Surjo Soekadar, Univeristy of Tübingen, DE Outlook and integration

Brain machine interfaces (BMI) as an example of fusing machine learning with biological learning.

15.45 - Concluding remarks and Departure

# **Registration Form**

# Danish Society for Neuroscience (DSfN) Annual meeting, May 17-18 2016 Hotel Hesselet, Nyborg, DK

Please send to Lisbeth Causse: danskselskabforneurovidenskab@gmail.com

Title + Name:						
Institution:		Country:				
Email address:						
Registratio	egistration fee:		Early registration Before March 15 <sup>th</sup>		Late registration Latest April 24 <sup>th</sup>	
Member of l	DSfN		kr. 3200		Kr. 4000	
	Member of DSfN and student (max 20 students at reduced rate)		kr. 1200		Kr. 1500	
Non-membe	er		kr. 4000		Kr. 4500	
Accompanying person			kr. 4000		Kr. 4500	
Name of accompanying person:						
The registration fee covers catering during the meeting and one night of accommodation from May 17 $^{th}$ – 18 $^{th}.$						
Please check of the appropriate boxes:						
Accommodation: □ May 16-17 □ May 17-18 □ May 18-19						
Payment:						
	The amount DKK has been transferred to Danske Bank Registration No: 1551, account 0010639212. <i>Please indicate your name!</i>					
	EAN- Invoice to:	Attn. N	umber: Name: ite and address:			
Cancellation As long as the Soc 500 DKK.	1: iety can be reimbursed from the h	otel, partic	ipants can be reimbursed afte	er deduction	of a handling fee of	

**Questions**: Please contact secretary Lisbeth Rosenberg Causse, +45 35327314 or program chair Niels Plath (niep@lundbeck com)

Please send the registration form to: <a href="mailto:lcausse@nexs.ku.dk">lcausse@nexs.ku.dk</a>