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

17.30 - Break

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:

Registration fee:	Early registration Before March 15th		Late registration Latest April 24th	
Member of DSfN	☐	kr. 3200	☐	Kr. 4000
Member of DSfN and student (max 20 students at reduced rate)	☐	kr. 1200	☐	Kr. 1500
Non-member	☐	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 17th – 18th.

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. *Please indicate your name!*

☐ Send EAN- Invoice to: EAN number:
Attn. Name:
Institute and address:

Cancellation:
As long as the Society can be reimbursed from the hotel, participants can be reimbursed after deduction of a handling fee of 500 DKK.

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

Please send the registration form to: lcausse@nexs.ku.dk