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: lcausse@nexs.ku.dk**

Title + Name:

Institution: Country:

Email address:

**Registration fee:** Early registration Late registration

Before March 15th Latest April 24th

Member of DSfN kr. 3200 Kr. 4000

Member of DSfN and student kr. 1200 Kr. 1500

(max 20 students at reduced rate)

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**](mailto:lcausse@nexs.ku.dk)