

XIV Meeting of the International Basal Ganglia Society (IBAGS), June 13-16, 2023

Venue: Clarion Hotel, Stockholm (2.8 km from the centre of the city and very close to a metro station).

I. Opening event (Tuesday June 13)

17:00-18:30 **Welcome address and honorary lectures**

Honoring lifetime achievements of scientists who have made outstanding contributions to the field of translational basal ganglia research.

18:30-21:00 **Welcome reception**

Light buffet dinner for meeting participants and accompanying persons, offered at the meeting venue.

II. Scientific programme synopsis

The meeting will consist of 10 plenary lecture sessions and 3 poster sessions. Most lecture sessions will include an oral presentation selected from the submitted abstracts (shown in purple).

For session titles, speakers, and lecture topics see the next pages.

Wednesday, 14 June 2023	Thursday, 15 June 2023	Friday, 16 June 2023
<p>08.45-10.20 – Session 1</p> <ul style="list-style-type: none"> - 08:45-09:10 Speaker 1 - 09:10-09:35 Speaker 2 - 09:35-10:00 Speaker 3 - 10:00-10:20 Speaker 4 <p><i>10.20-10.45 Coffee break</i></p> <p>10:45-12.20 – Session 2</p> <ul style="list-style-type: none"> - 10:45-11:10 Speaker 5 - 11:10-11:35 Speaker 6 - 11:35-12:00 Speaker 7 - 12:00-12:20 Speaker 8 <p>12.20-13.30 – Lunch</p> <p>13.30-15:05 – Session 3</p> <ul style="list-style-type: none"> - 13:30-13:55 Speaker 9 - 13:55-14:20 Speaker 10 - 14:20-14:45 Speaker 11 - 14:45-15:05 Speaker 12 <p><i>15:05-15:35 Coffee break</i></p> <p>15:35-16:45 – Session 4</p> <ul style="list-style-type: none"> - 15:35-16:00 Speaker 13 - 16:00-16:25 Speaker 14 - 16:25-16:45 Speaker 15 <p>17:00 – 18:30: POSTER SESSION 1 18:30-19:00 posters removal</p>	<p>08:45-10:20 – Session 5</p> <ul style="list-style-type: none"> - 08:45-09:10 Speaker 16 - 09:10-09:35 Speaker 17 - 09:35-10:00 Speaker 18 - 10:00-10:20 Speaker 19 <p><i>10.20-10.45 Coffee break</i></p> <p>10:45-12:20 – Session 6</p> <ul style="list-style-type: none"> - 10:45-11:10 Speaker 20 - 11:10-11.35 Speaker 21 - 11:35-12.00 Speaker 22 - 12:00-12:20 Speaker 23 <p>12.20-13.30 – Lunch</p> <p>13.30-14:40 – Session 7</p> <ul style="list-style-type: none"> - 13.30-13.55 Speaker 24 - 13:55-14.20 Speaker 25 - 14.20-14.40 Speaker 26 <p><i>14:40-15:05 Coffee break</i></p> <p>15:05-16:15 – Session 8</p> <ul style="list-style-type: none"> - 15:05-15:30 Speaker 27 - 15:30-15:55 Speaker 28 - 15:55-16:15 Speaker 29 <p>16:30 – 18:00: POSTER SESSION 2 18:00-18:30 posters removal</p> <p>18:30:19:00 transportation to the Gala Dinner</p> <p>19:00-23:00 GALA DINNER</p>	<p>09:00-10.10 – Session 9</p> <ul style="list-style-type: none"> - 09:00-09:25: Speaker 30 - 09:25 -09:50 Speaker 31 - 09:50-10:10 Speaker 32 <p><i>10.10-10:30 Coffee break</i></p> <p>10:35-12:10 – Session 10</p> <ul style="list-style-type: none"> - 10:35 -11:00 Speaker 33 - 11:00 – 11:25 Speaker 34 - 11:25 – 11:50 Speaker 35 - 11:50 – 12:10 Speaker 36 <p>12.10-13.20 – Lunch</p> <p>13:20 -16:00: POSTER SESSION 3 16:00-16:30: poster removal</p> <p><i>16:15-17:00 General assembly; new council member election</i></p> <p>17.00-17.30 <i>Wrap-up</i></p> <p style="text-align: center;">- End of meeting -</p>

III. Plenary session programme

(session titles, speakers, and lecture topics are confirmed unless otherwise specified)

Wednesday, June 14th

Session 1. Dopamine cell types and functions

[08.45-10.20](#)

Marisela Morales, NIDA (USA)

Differential dopamine signaling achieved by co-release of other neurotransmitters

Thomas Perlmann, Karolinska Institute (Sweden)

Identity shifts of dopaminergic neurons across development and disease

Pablo Henny, Universidad Católica de Chile (Chile) **awaiting confirmation**

Recording and modeling of somatodendritic control of dopamine neurons

4th Speaker from the submitted abstracts

Session 2: Cortical and thalamic interplay with the basal ganglia

[10:45-12.20](#)

Yoland Smith, Emory University, Atlanta (USA)

Comparative Anatomy of Thalamocortical and Corticofugal Systems

Pavel Rueda-Orozco, UNAM Mexico City (Mexico)

Role of corticostriatal systems in bilaterally coordinated movements and their disruption in PD models

Hayriye Cagnan, University of Oxford (UK)

Thalamocortical dynamics and the emergence of basal ganglia oscillations

4th Speaker from the submitted abstracts

Session 3: The basal ganglia network and maladaptive behaviors

[13.30-15:05](#)

Christiane Schreiweis, Sorbonne Université & Hôpital de la Pitié Salpêtrière, Paris (France)

Behavioural features and synaptic dysfunctions in mouse models of OCD

Cristina Alcacer, Champalimaud Neuroscience Programme & Institute Cajal Madrid (Portugal, Spain)

Behavioural features and striatal pathways in mouse models of L-DOPA-induced dyskinesia

Alexandra Nelson, UCSF (USA)

PD-related impulse control disorders: models and mechanisms

4th Speaker from the submitted abstracts

Session 4: Cell types, connections, and functions of the intrinsic basal ganglia nuclei

[15:35-16:45](#)

Nicolas Mallet, University of Bordeaux (France)

On the functions and connections of GPe cell types

Yoni Kupchik, The Hebrew University of Jerusalem (Israel)

Cells and connections of the ventral pallidum

3rd Speaker from the submitted abstracts

Thursday, June 15th

Session 5: Glial-neuronal interactions at basal ganglia circuits

08:45-10:20

Stephanie Cragg, University of Oxford (UK)
Astrocyte role in signal integration

Baljit Khakh, UCLA (USA)
Astrocytic functions in the regulation of basal ganglia physiology and behaviors

Marta Navarrete-Llinas, Institute Cajal CSIC (Spain)
Input-specific astrocyte activation in the ventral striatum

4th Speaker from the submitted abstracts

Session 6: Synaptic plasticity and behavioral reinforcement

10:45-12:20

Ann Graybiel, MIT McGovern Institute (USA)
Behavioural consequences of neural plasticity in nigro-striato-nigral loops

Sho Yagishita, University of Tokyo (Japan)
Multimodal systems-level interrogations of striatal plasticity

John Reynolds, University of Otago (New Zealand)
Dopamine effects on basal ganglia systems and plasticity – a translational perspective

Peter Dayan, University of Tübingen (Germany)
A computational approach to study basal ganglia plasticity in reinforcement learning

Session 7: External inputs to the basal ganglia

13.30-14:40

Kamran Khodakhah, Albert Einstein College of Medicine (USA)
Cerebellum and basal ganglia interplay

François George, University of Bordeaux (France)
Amygdala and basal ganglia interplay

Nadine K. Gut, Rutgers University, Newark, NJ (USA)
Pedunculopontine connections to the basal ganglia

Session 8: Basal ganglia neurochemistry revisited using new sensor technology

15:05-16:15

Jun Ding, Stanford Univ (USA),
Voltage sensitive indicators in striatal neurons

Alan Pradip Jasanoff, MIT Dept. Biological Engineering (USA)
Functional dissection of striatal circuitry using molecular fMRI

3rd Speaker from the submitted abstracts.

Friday, June 16th

Session 9: Striatal microcircuits and compartments

09:00-10:10

Gustavo Murer, Universidad de Buenos Aires (Argentina)
Functional properties of cholinergic interneurons in health and disease.

Joshua Plotkin, SUNY Stony Brook (USA)
New vistas on striosome and matrix

3rd Speaker from the submitted abstracts

Session 10: Utilising circuit dynamics and oscillations to treat basal ganglia disorders

10:35-12:10

Aryn Gittis, Carnegie Mellon University Pittsburgh (USA)
Translating cell-specific interventions from optogenetics to deep brain stimulation

Andrew Sharott, University of Oxford (UK)
Utilising phase information from beta oscillations for adaptive neuromodulation

Roxanne Lofredi, Charité Universitätsmedizin Berlin (Germany)
Oscillatory and behavioural mechanisms of neuromodulation in patients with basal ganglia disorders

4th Speaker from the submitted abstracts