



SMDS
Swiss Movement
Disorders Society

Swiss Movement Disorders Society SMDS

6th Scientific Meeting of the SMDS

Thursday, November 28th 2024, from 15h00 to 19h15

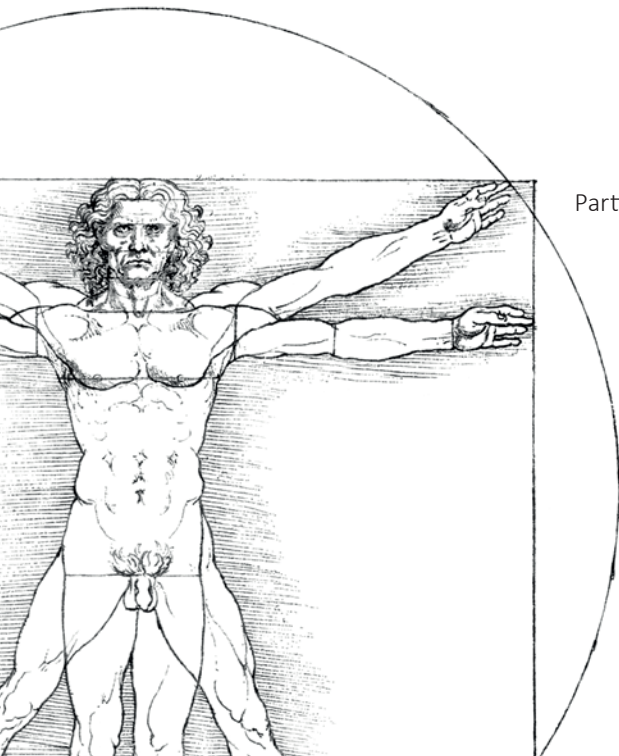
USZ Zurich Hörsaal Haldenbach

Online participation via ZOOM (use QR-code):

<https://uzh.zoom.us/j/69545979140?pwd=Zy50lhkvUNc09KC9J7rteEHTfl5OX.1>



Participate via ZOOM



Dear Colleagues,

We are pleased to invite you to the 6th Scientific meeting of the “Swiss Movement Disorders Society”. Our society was founded some years ago to be a forum for discussion in the growing field of movement disorders.

The main goal of our multi-professional, multidisciplinary organisation is to promote communication, information, education and scientific exchange across all people involved in the care of patients with movement disorders in Switzerland. In this way, we would like to complete and extend the already existing initiatives and societies.

This responds to an important need since Switzerland was one of the few European countries without such an association. Our 2024 meeting is dedicated to the communication about recently completed, ongoing and planned research projects in our community. This aims at fostering collaboration, exchange and friendship among the groups and interested parties.

This year, our annual meeting will again take place in Zurich in person with all the speakers present which will allow an interactive session. We will award the 1st SMDS-Prize for the best project presentation and travel grants are available for the speakers. For those otherwise unavailable to attend, online participation is possible.

We hope to welcome you personally for an exchange in Zurich at the 6th Scientific meeting of the SMDS on November 28th 2024.

PD Dr. med. David Benninger
Scientific meeting organizer

PD Dr. Georg Kägi
Vice-President SMDS

PD. Dr. Michael Schüpbach
President SMDS

Prof. Dr. Lennart Stieglitz
Local Host

Moderators

PD Dr. med. David Benninger, Deputy Chief Physician, Neurology, Reha Rheinfelden / University of Basel, senior Consultant, Dept. of Neurology, CHUV-UNIL, Lausanne

PD Dr. med. Georg Kägi, Deputy Head, Dept. of Neurology, Cantonal Hospital St. Gallen, Vice-President SMDS

PD Dr. med. Michael Schüpbach, Neurologist FMH, Neurological Institute Konolfingen, President SMDS

Prof. Dr. med. Lennart Stieglitz, Senior Attending Physician, Vice Director of Department, Department of Neurosurgery USZ

Organizer

Swiss Movement Disorders Society (Committee members: L.M. Abela, D. Benninger, S. Bohlhalter, D. Brogle, F. Hatz, G. Kägi, A. Kaelin, C. Möller, E. Ostler, M. Schüpbach, L. Stieglitz, T. Vanbellingen)



Credits

Swiss Neurological Society (SNG): 2 credits

Information

Segretariato Direzione
Neurocentro della Svizzera Italiana
Via Tesserete 46, 6903 Lugano
neurocentro@eoc.ch

Program

- 15h00 **Welcome**
Michael Schüpbach, Georg Kägi, David Benninger,
Lennart Stieglitz
- Chair** David Benninger
- 15h15 **Clinical-neurophysiological interrogation:
personalized approach to tune adaptive Deep Brain
Stimulation in Parkinson's disease**
Laura Alva
- 15h25 **Alpha-synuclein and tau seeding amplification
assay in skin biopsy for the diagnosis and monitoring
of Multiple System Atrophy and other
Neurodegenerative Diseases**
Giorgia Melli
- 15h35 **Thalamic deep brain stimulation versus magnet
resonance-guided focused ultrasound in tremor patients:
A retrospective single-centre single-surgeon comparison**
Fabian Büchele
- 15h45 **Identifying optimal Deep Brain Stimulation Sites:
a group analysis approach using intraoperative
stimulation data in ET patients**
Vittoria Bucciarelli
- 15h55 **Digital speech biomarkers can measure acute effects
of levodopa in Parkinson's disease**
Mario Sousa
- 16h05 **Interindividual differences in the impact of adjusting
the DBS frequency on upper limb bradykinesia**
Patrick Dorin
- 16h15 **Bilateral staged MR-guided focused ultrasound
thalamotomy for Essential Tremor: one-year
follow-up results**
Sujitha Mahendran
- 16h25 **The role of gamma oscillations in Motor Dysfunction
in Parkinson's disease:
in-hospital and home-monitoring trial**
Averna Alberto, Tinkhauser Gerd.
- 16h35 **Short break**

Chair

- Georg Kägi
- 17h05 **Mobility in atypical parkinsonism: a randomized trial of
physiotherapy**
Tabea Schoenfeldt-Reichmann1
- 17h15 **Therapy-dependent encoding of locomotor functions in
the subthalamic nucleus of people with Parkinson's disease**
Eduardo M. Moraud
- 17h25 **Optimizing the effects of deep brain stimulation on
chronic pain in Parkinson disease**
Veit Mylius
- 17h35 **Parkinsonkompetenz benötigt mehr als Fachwissen**
Elke Steudter
- 17h45 **Relevance of anti-IgLN5 testing in movement
disorder clinical practice**
Manfredi C. Carta
- 17h55 **Minimal Important Change of mobility outcome
assessments in individuals with Parkinson's disease**
Jens Carsten Möller
- 18h05 **Dynamic functional (dis)connectivity as a novel imaging
marker of motor and neuropsychiatric symptoms:
towards individualized treatment of Parkinson's disease**
Maria Giulia Preti
- 18h15 **Structured visual hallucinations and the social visual
brain in Parkinson's disease**
Olaf Blanke
- 18h25 **A monocentric, randomized, double-blind study to assess
the feasibility of conducting a full-scale randomized
controlled trial (RCT) assessing the effect of carbidopa/
levodopa ratio on orthostatic hypotension in MSA-P
and PD patients**
Julien Bally
- 18h35 **1st SMDS Prize for Best Presentation and Conclusion**
- 19h15 **Conclusion and Apéro**

Tau seeding activity in skin biopsy differentiates tauopathies from synucleinopathies

Ilaria Linda Dellarole, Elena Vacchi, Inigo Ruiz-Barrio, Sandra Pinton, Andrea Raimondi, Stefania Rossi, Sara Morandi, Giovanni Bianco, Merve Begum Bacinoglu, Annalisa Lombardo, Luigi Celauro, Claudio Staedler, Salvatore Galati, Javier Pagonabarraga, Jaime Kulisevsky, Giuseppe Legname, Claudio Gobbi, Alain Kaelin-Lang, Fabio Moda & Giorgia Melli

Thalamic deep brain stimulation versus magnet resonance-guided focused ultrasound in tremor patients: A retrospective single-centre single-surgeon comparison

Christian Rainer Baumann, MD^{1,3*}; Andreas Fleisch, MD^{1,3*}; Sujitha Mahendran, MD^{1,3}; Mechtild Uhl^{1,3}; Carola Freudinger^{1,3}; Evdokia Efthymiou, MD^{1,3}; Markus Florian Oertel, MD^{2,3}; Lennart Henning Stieglitz, MD^{2,3}; Fabian Büchele, MD^{1,3}

1. Department of Neurology, University Hospital Zurich, Zurich, Switzerland
 2. Department of Neurosurgery, University Hospital Zurich, Zurich, Switzerland
 3. Clinical Neuroscience Centre, University Hospital Zürich, Zurich, Switzerland
- * these authors contributed equally

Identifying optimal Deep Brain Stimulation Sites: a group analysis approach using intraoperative stimulation data in ET patients

Vittoria Bucciarelli¹, Dorian Vogel¹, Marc Stawiski¹, Teresa Nordin², Karin Wårdell², Jérôme Coste³, Jean-Jacques Lemaire⁴, Simone Hemm¹

1. FHNW University of Applied Sciences and Arts Northwestern Switzerland, School of Life Sciences, Insti-tute for Medical Engineering and Medical Informatics, Muttenz, Switzerland
2. Linköping University, Department of Biomedical Engineering, Linköping, Sweden
3. Université Clermont Auvergne, Clermont Auvergne INP, CNRS, Institut Pascal, Clermont-Ferrand, France
4. Université Clermont Auvergne, CNRS, CHU Clermont-Ferrand, Clermont Auvergne INP, Institut Pascal, Clermont-Ferrand, France

Digital speech biomarkers can measure acute effects of levodopa in Parkinson's disease

Sousa, M.,^{1,2} Kryze, P.,³ Amstutz, D.,^{1,2} Petermann, K.,¹ Avena, A.,^{1,4} Castelli, M.,⁵ Magalhaes, A.,¹ Jorge, A.,¹ Svihlik, J.,^{3,6} Tykalova, T.,³ Illner, V.,³ Maradan-Gachet, M.M.,¹ Diamantaras, A.,¹ Waskönig, J.,¹ M, Lachenmayer, M.L.,¹ Debove, I.,¹ Tinkhauser, G.,^{1,4} Nef, T.,¹ Rusz, J.,^{3,†} Krack, P.,^{1,†}

1. Department of Neurology, Bern University Hospital and University of Bern, Bern, Switzerland.
2. Graduate School of Health Sciences, University of Bern, Bern, Switzerland
3. Department of Circuit Theory, Faculty of Electrical Engineering, Czech Technical University in Prague, Prague, Czech Republic
4. Department of Biomedical Research, University of Bern, Bern, Switzerland
5. ARTORG Center for Biomedical Engineering Research, Gerontechnology and Rehabilitation, University of Bern, Bern, Switzerland
6. Department of Mathematics, Informatics and Cybernetics Faculty of Chemical Engineering University of Chemistry and Technology, Prague

Optimizing the effects of deep brain stimulation on chronic pain in Parkinson disease

Veit Mylius^{1,2}; Lisa Maria Zünd-Hofer³, Lea di Paola⁴; Georg Kägi³; Nadia Berard⁴, Julien Bally⁴; Florian Brugger³

1. Department of Neurology, Center for Neurorehabilitation, Valens, Switzerland
2. Department of Neurology, Philipps University, Marburg, Germany
3. Department of Neurology, Kantonsspital St. Gallen, Switzerland
4. Service of Neurology, Department of Clinical Neurosciences, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland

Bilateral staged MR-guided focused ultrasound thalamotomy for Essential Tremor: one-year follow-up results

Sujitha Mahendran

Interindividual differences in the impact of adjusting the DBS frequency on upper limb bradykinesia.

P. Dorin¹, D. Broghe¹, S. Hägele-Link¹, M. Krüger², P. Reinacher³, G. Kägi¹, F. Brugger¹.

1. Departement of Neurology, Kantonsspital St. Gallen, Switzerland
2. Unit of Functional Neurosurgery, University College London, United Kingdom
3. Departement of Neurosurgery, Kantonsspital St. Gallen, Switzerland

Mobility in atypical parkinsonism: a randomized trial of physiotherapy

Tabea Schoenfeldt-Reichmann¹, Cecilia Raccagni^{3,4}, Victoria Sidoroff⁴, Gregor Wenning⁴, Florian Krismer⁴, David Benninger^{1,2} and all investigators and collaborators of the Mobility_APP-Consortium.

1. Service de Neurologie, Département des Neurosciences Cliniques, Centre Hospitalier Universitaire Vaudois, Lausanne, Switzerland
2. Neurology, Reha Rheinfelden, Rheinfelden, Switzerland
3. Department of Neurology, Provincial Hospital of Bolzano (SABES-ASDAA), Lehrkrankenhaus der Paracelsus Medizinischen Privatuniversität, Bolzano, Italy
4. Department of Neurology, Medical University of Innsbruck, Innsbruck, Austria

Therapy-dependent encoding of locomotor functions in the subthalamic nucleus of people with Parkinson's disease

Stefano Scafa, Ruijia Wang, Paula Sáñez López, Icare Sakr, Camille Varescon, Cécile Hubsch, Mayte Castro Jiménez, Julien F. Bally, Grégoire Courtine, Jocelyne Bloch, and Eduardo M. Moraud.

1. Department of Clinical Neurosciences, University of Lausanne (UNIL) and University Hospital Lausanne (CHUV)
2. Department of Neurology, University of Lausanne and University Hospital Lausanne.
3. Department of Neurosurgery, University of Lausanne and University Hospital Lausanne,
4. Defitech Center for Interventional Neurotherapies (NeuroRestore), University Hospital Lausanne and Ecole Polytechnique Fédérale de Lausanne

Clinical-neurophysiological interrogation: personalized approach to tune adaptive Deep Brain Stimulation in Parkinson's disease

Laura Alva MD,¹ Alberto Averna PhD,¹ Andreas Nowacki MD,² Katrin Peterman MSc,¹ Elena Bernasconi MSc,¹ Ines Debove MD,¹ Mário Sousa MD,¹ Martin L. Lachenmayer MD,¹ Paul Krack MD, PhD,¹ Claudio Pollo MD,² Gerd Tinkhauser MD, PhD^{1*}

* Corresponding author

1. Department of Neurology, Bern University Hospital and University of Bern, Bern, Switzerland
2. Department of Neurosurgery, Bern University Hospital and University of Bern, Bern, Switzerland

Alpha-synuclein and tau seeding amplification assay in skin biopsy for the diagnosis and monitoring of Multiple System Atrophy and other Neurodegenerative Diseases

Giorgia Melli

Parkinsonkompetenz benötigt mehr als Fachwissen

Vortragende: Prof. Dr. Elke Steudter | Careum Hochschule Gesundheit, Zürich,²

Projektmitglieder: Prof. Dr. Elke Steudter, Mechild Uhl, RN und Frauke Rogenhofer, RN, MSc

Relevance of anti-IgLON5 testing in movement disorder clinical practice

Manfredi C Carta¹, Benjamin Vlad¹, Bettina Balint¹

1. Department of Neurology, University Hospital of Zurich, University of Zurich, Zurich, Switzerland

Minimal Important Change of mobility outcome assessments in individuals with Parkinson's disease

Jens Carsten Möller¹, Detlef Marks¹, Tobias Braun²

1. Rehaklinik Zihlschlacht, Zihlschlacht, Switzerland
2. HSD Hochschule Döpfer, Cologne, Germany

Dynamic functional (dis)connectivity as a novel imaging marker of motor and neuropsychiatric symptoms: towards individualized treatment of Parkinson's disease

Maria Giulia Preti, Dimitri Van De Ville
EPFL - Ecole Polytechnique Fédérale de Lausanne

The role of gamma oscillations in Motor Dysfunction in Parkinson's disease: in-hospital and home-monitoring trial

Parkinson Schweiz
Co-Applicants: Gerd Tinkhauser Bern und Alberto Averna Bern

Structured visual hallucinations and the social visual brain in Parkinson's disease

Hauptapplicant und Presenter: Olaf Blanke
EPFL - Ecole Polytechnique Fédérale de Lausanne

A monocentric, randomized, double-blind study to assess the feasibility of conducting a full-scale randomized controlled trial (RCT) assessing the effect of carbidopa/levodopa ratio on orthostatic hypotension in MSA-P and PD patients

Hauptapplicant: Julien Bally, Lausanne

REGISTRATION

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Participate via ZOOM



Please register for on site participation by e-mail
neurocentro@eoc.ch

P.F. complete in capital letters

Title/Name and Surname: _____

Institute/study/speciality: _____

Address _____

E-mail: _____

Mobile phone _____

Date and signature: _____

I participate in the aperitif _____

YES NO

ATTENTION:

Certificates of participation are sent by email only

Registration by 22.11.2024