October 26, Wednesday

8:30-8:45 Opening

**Session 1: Wolfram syndrome**

*Chair: Michal Cagalinec*

8:45-9:15 **Nolwen Le Floch**, France (online)

*French Wolfram Syndrome Association – The families fight*

9:15-9:45 **Benjamin Delprat**, France

*Wolfram syndrome: from physiopathology to therapy*

9:45-10:00 **Elodie Richard**, France

*NCS1 overexpression restores mitochondrial activity and behavioral alterations in a zebrafish model of Wolfram syndrome*

10:00-10:30 **Catherine Verfaillie**, Belgium (online)

*Some but not all WFS1 iPSC-derived oligodendrocytes show extensive UPR stress: is there a MAMs phenotype?* (cancelled)

10:30-11:00 Coffee break

**Session 2: Amyotropic lateral sclerosis**

*Chair: Benjamin Delprat*

11:00-11:30 **Jean-Charles Lievens**, France

*Sigma-1 receptor as a therapeutic target in amyotrophic lateral sclerosis*

11:30-11:45 **Pauline Tarot**, France

*Sigma-1 receptor as a therapeutic target in amyotrophic lateral sclerosis, part II*

11:45-12:00 **Catherine Verfaillie**, Belgium (online)

*Patient derived FUS mutant vs isogenic ALS oligodendrocytes, as well as oligodendrocytes created by knock-in of a FUS mutation in normal iPSC display abnormal lipidomics and UPR stress typical for defective MAMs* (cancelled)

12:00-12:30 **Marco Peviani**, Italy (online)

*Tackling ALS by exploring Sigma-1 receptor and TSPO ligands at the crossroad between neurodegeneration and neuroinflammation*

12:30-14:00 Lunch

**Session 3: familial Parkinson’s disease**

*Chair: Geert Bultynck*

14:00-14:45 **Angela Cenci Nilsson**, Sweden (online)

*Evaluation of Sigma-1 receptor ligands in a mouse model of Parkinsonism*

14:45-15:15 **Vinay Choubey**, Estonia

*A novel role of Keap1/PGAM5 complex in Pink1-Parkin induced mitophagy*

15:15-15:45 Coffee break

**Session 4: ATAD3A-associated disorders**

*Chair: Daniela Gasperikova*

15:45-16:40 **Tamar Harel**, Israel (online)

*Genotype-phenotype correlations at the ATAD3A locus*

16:40-16:55 **Shlomit Ezer**, Israel

*In vitro and in vivo models of ATAD3A-associated disorders*

16:55-17:10 **Martina Skopkova**, Slovakia

*Phenotypic, biochemical and microscopic characterization of patients with biallelic mutations in the ATAD3A gene*

17:15-18:45 Round table (closed session)

19:15- Gala Dinner (Hotel Devin)

October 27, Thursday

**Session 5: Sigma 1 receptor**

*Chair: Jean-Charles Lievens*

9:00-9:30 **Tangui Maurice**, France

*The importance of Sigma-1 receptor in physiopathological brain plasticity*

9:30-10:00 **Patricia Melnyk**, France (online)

*Safe and efficient Sigma1 ligand: a potential drug candidate for Multiple Sclerosis*

10:00-10:30 **Liga Zvejniece**, Latvia

*Metabolomic Signatures of Sigma-1 Receptor Knockout Mice*

10:30-11:00 Coffee break

**Session 6: Membrane contact sites**

*Chair: Tangui Maurice*

10:00-11:45 **Geert Bultynck**, Belgium

*Intracellular Ca2+ dynamics and its modulation by BCL-2 family and CISD2*

11:45-12:15 **Michal Cagalinec**, Slovakia

*Microscopic approach to assess mitochondria-ER interaction*

12:15-12:30 **Jan Skoda**, Czech Republic

*ER–mitochondria connectivity controls multidrug resistance in neuroblastoma*

12:30-14:00 Lunch

**Session 7: Signalling & Processes**

*Chair: Liga Zvejniece*

14:00-14:45 **Barbara Ehrlich**, USA

*Calcium signalling in Wolfram Syndrome and other neurodegenerative diseases*

14:45-15:15 **Matej Hotka**, Austria

*Ca2+-dependent stimulation of mitochondrial ATP synthesis in primary hippocampal neurons*

15:15-15:30 **Alexandra Zahradnikova Jr**, Slovakia

*Cardiac calcium signalling - the role of dyadic junction*

15:30-16:30 Coffee break and poster presentation

17:00-18:30 Sightseeing

19:00- Dinner (Hotel Devin)

List of Poster Presentations

P1: **Dagan S.Y.**, Ezer S., Frumkin A., Lupski J.R., Harel T.

*Implications of ATAD3A Paralogs on CRISPR/Cas9 Gene Editing*

P2: **Baglaeva I.**, Iaparov B., Zahradnikova A. Jr, Zahradnik I., Zahradnikova A.

*Automated analysis of noisy calcium transients in cardiac myocytes*

P3: **Iaparov B.**, Baglaeva I., Zahradnik I., Zahradnikova A.

*Magnesium ions determine spontaneous calcium activity in cardiomyocytes*

P4: **Sklenar M.**, Borecka S., Cagalinec M., Skopkova M., Gasperikova D.

*Functional study of the novel deletion variant in the WFS1 gene*

P5: **Rambani V.**, Kolnikova M., Cagalinec M., Skopkova M., Gasperikova D.

*Novel PMPCA variants in Leigh syndrome*

P6: **Kabelikova P.**, Ivovic D., Kosnacova H., Wagner A., Goffova I., Jurkovičova D.

*Alterations of mitogenome and mitochondrial dynamics in chemoresistant testicular cancer cells*