



Unterstützt von / Supported by



Alexander von Humboldt
Stiftung/Foundation

PROGRAM KOLLEG
Current Advances on
Neurodegeneration:
From Molecular Biology to
Translational Medicine

50 Anniversary of the Alexander von
Humboldt
Alumni Club Argentina
AVHCLUB-AR

September 28 to October 1st, 2017
Villa Carlos Paz, Cordoba, Argentina



Tuesday September 26

Arrival to Córdoba (Foreign visitors: basically those coming from Germany)

Day 1

Wednesday September 27

German visitors:

08:30-09:30 Transport from Hotel Portal del Lago to Cordoba City

09:30- 11:30 Guided visit to the National University of Córdoba,

11:30-13:00 Ceremony Dhc Prof. Dr Schwarz at the National University Cordoba.

13:30-15:00 Lunch

15:00-16:00 Meeting with alumni at the CCT Cordoba auditory- Ciudad Universitaria.

16:00-18:00 Visit different laboratories of the Facultad de Ciencias Químicas and Instituto Ferreyra.

18:00-19:00 Drive to Villa Carlos Paz.

19:00 Dinner in the Hotel

Day 2

Thursday September 28

10:00-17:30 *Kolleg Registration*

16:00-16:30 Information on the Alexander von Humboldt Programs. Anne Sperschneider, Secretary for Latin America, the Alexander von Humboldt Foundation, Bonn, Germany

16:30-16:45 Questions and Answers of prospective Alexander von Humboldt fellows in the last year of their promotion work, and young professors up to 11 years after their doctorate.

16:45-17:00 OPENING SESSION

Welcome to the AVH-Kolleg Córdoba:

Director of the CCT-CONICET Córdoba, Dora Celton,

President of the AVHClub-Argentina, Ines. Noher de Halac.

17:00-17:30 Welcome to the AvH Kolleg Cordoba, Prof. Dr. Helmut Schwarz, the President of the Alexander von Humboldt Foundation, Berlin, Germany introduced by Alfredo Cáceres*.

Session 1: Mechanisms of Nerve Degeneration and Regeneration

18:00-19:00

Chairman: Gustavo Nores, CIQUIBIC-CONICET (Córdoba, Argentina)

18:00-18:30 Nicolás Unsain and Alfredo Cáceres: Cytoskeletal changes associated with axon degeneration, INIMEC-CONICET-UNC (Córdoba, Argentina)

18:30-19:00 Pablo Lopez: Molecular mechanisms underlying the inhibitory effect of anti-ganglioside antibodies associated to human neuropathies on peripheral nerve repair. INIMEC-CONICET-UNC (Córdoba, Argentina)

19:00-19:30 Ramiro Quinta: Axonal regeneration in acute spinal cord injury, IQUIFIBI-CONICET (Ciudad Autónoma Buenos Aires, CABA, Argentina)

19:30-20:00 Break

20:00-20:50 Opening Lecture: Fernando Stefani*: Nanometer resolution single molecule localization with minimal photon fluxes. CIBION-CONICET, (CABA, Argentina). Introduced by Alfredo Cáceres*

21:00-24:00 Welcome Reception: Prof. Schwarz and invited guests

Day 3

Friday September 29

Session 2: Pathogenesis of Neurodegenerative Diseases I

08-30-09:30

Chairman: Rafael Oliveira, CIQUIBIC-CONICET (Córdoba, Argentina), Diego de Mendoza*, IBR-CONICET (Rosario, Argentina)

08:30-09:00 Alfredo Lorenzo: β -amyloid toxicity and neuronal degeneration, INIMEC-CONICET-UNC (Córdoba, Argentina)

09:00-09:30 Laura Morelli: Can ER-Mitochondria coupling, bioenergetics and accumulation of A β be linked together in a common and early pathogenic pathway in Alzheimer ?, FIL (CABA, Argentina)

Session 3: Pathogenesis of Neurodegenerative Diseases II.

09:30-10:30

Chairman: Guillermo Montich, CIQUIBIC-CONICET (Córdoba, Argentina)

09:30-09:50 Pablo Helguera: Consequences of mitochondrial dysfunction in down syndrome neurons. INIMEC-CONICET-UNC, (Córdoba, Argentina)

09:50-10:10 Tomás Falzone: Decoding the molecular mechanisms of transport regulation in human neuronal models IBCN-CONICET (CABA, Argentina)

10:10-10:30 Gustavo Pigino: Misregulation of Fast Axonal Transport: a novel pathogenic target in Alzheimer's disease, INIMEC-CONICET-UNC (Córdoba, Argentina)

10:30 -11:00 Coffee Break

11:00-11:50 Lecture: Prof. Eva Mandelkow, Synaptic degeneration in animal models of Tau pathology (1) German Center for Neurodegenerative Diseases (DZNE), (2) CAESAR Research Center, Bonn, Germany. Introduced by Alfredo Cáceres

12:00-12:50 Lecture: Prof. Thomas Jovin, A dual role for autocatalysis in the amyloid conversion of alpha-synuclein. MPI Biophysical Chemistry, Göttingen, Germany. Introduced by Alfredo Cáceres

13:00-14:30 LUNCH

14:30-15:30 POSTER SESSION

Session 4: Pathogenesis of Neurodegenerative Diseases III

15:30-17:00

Chairman: Dolores Carrer, INIMEC-CONICET-UNC (Córdoba, Argentina), Luis S. Mayorga*, IHEM-CONICET (Mendoza, Argentina)

15:30-16:00 Fernando Pitossi: Identification of neuroinflammation-derived targets for Parkinson's Disease, FIL (CABA, Argentina)

16:00-16:30 Donna Arndt-Jovin: Overexpression of alpha-synuclein in neural-committed iPSCs and in melanoma progression, MPI (Göttingen, Germany)

16:30-17:00 Claudio Fernández: Protein amyloidosis in Parkinson disease: Molecular, structural and cell biology of the protein α -Synuclein. Max Planck Laboratory for Structural Biology, Chemistry and Molecular Biophysics of Rosario (MPLbioR, UNR-MPIbpC) and Instituto de Investigaciones para el Descubrimiento de Fármacos de Rosario (IIDEFAR, UNR-CONICET), Universidad Nacional de Rosario

17:00-17:30 Coffee Break

Session 5: Pathogenesis of Neurodegenerative Diseases IV

17:30-19:30

Chairman: Alfredo Lorenzo, INIMEC-CONICET-UNC (Córdoba, Argentina), Luis S. Mayorga*, IHEM-CONICET (Mendoza, Argentina)

17:30-17:50 María S. Celej: Biophysical and biochemical insights into α -synuclein amyloid species and neurotoxicity. CIQUIBIC-CONICET (Córdoba, Argentina)

17:50-18:10 Agustín Anastasia: BDNF and the susceptibility for central nervous system disorders, INIMEC-CONICET-UNC (Córdoba, Argentina)

18:10-18:50 Francisco Barrantes*: Interrogating brain synapses in neurodegenerative diseases with superresolution microscopy, Universidad Católica Argentina [UCA], (CABA, Argentina)

18:50-19:30 Osvaldo Uchitel: Physiological and pathological functions of acid-sensing ion channels in the central nervous system. IFIBYNE-CONICET (CABA-Argentina)

19.30-20:00 Break

20:00-20:50 Lecture: Prof. Eckhard Mandelkow: Tau structure and aggregation in neurodegenerative tauopathies. 1) German Center for Neurodegenerative Diseases (DZNE) (2) CAESAR Research Center, Bonn, Germany Introduced by Alfredo Cáceres

21:00-22:00 Dinner

22:00-24:00 POSTER SESSION

Day 4

Saturday September 30

8:30-9:30 Lecture: Konrad Sandhoff: Membrane lipids in lysosomal sphingolipid storage disease. LIMES Institute, University of Bonn, Germany. Introduced by José L. Daniotti

Session 6: Translational Medicine in Neurodegenerative Disease I.
(09:30-11.00)

Chairman: Carlos Argaraña, CIQUIBIC-CONICET (Córdoba, Argentina)

9:30-10:00 Inés Noher de Halac: The translational research program on Neuronal Ceroid Lipofuscinoses in a Public Hospital of Argentina, CEMECO-Children's Hospital (Córdoba-Argentina)

10:00-10:30 Marina Szlago: The spectrum of neurodegenerative disease in children, Hospital Gutiérrez (CABA, Argentina)

10:30-11:00 Paula Rozenfeld: The analytical laboratory of IEM, La Plata University (Buenos Aires, Argentina)

11:00-11:30 Coffee Break

Session 7: Translational Medicine in Neurodegenerative Disease II.
(11:30-13.10)

Chairman: Carla Bidinost Fundación Allende (Córdoba, Argentina)

11:30-11:50 Patricia Vega-Marcelo Kauffman: Impact of clinical genomics for the diagnosis of pediatric neurogenetic diseases in Argentina, (CABA, Argentina)

11:50-12:10 Laura Larovere: Biomedical research on inherited metabolic diseases in the hospital setting. Urea cycle disorders in Argentina, CEMECO-Hospital de Niños (Córdoba, Argentina)

12:10-12:30 Carola Grosso: Biomedical research on inherited metabolic diseases in the hospital setting. Genetics defects of homocysteine metabolism and associated disorders, CEMECO-Hospital de Niños (Córdoba, Argentina)

12:30-12:50 Alberto Rosa: Genetic and epigenetic events underlie the pathogenesis of facioscapulohumeral muscular dystrophy. CONICET- Universidad Católica Córdoba [UCC], (Córdoba, Argentina)

12:50-14:00 LUNCH

15:00-17:00 POSTER SESSION

Session 8: Translational medicine of neurodegenerative disease III: Therapy, Bioinformatics and Registries

17:00-18:00

Chairman: Romina Kohan, Facultad de Odontología - UNC (Córdoba, Argentina)

17:00- 17:45 Lecture: David Palmer: Towards human translation: Long term attenuation of disease progression in ovine CLN5 Batten disease with AAV9 gene transfer. University of Otago, Christchurch, New Zealand. Introduced by Ines Noher de Halac

17:45-18:30 Lecture: Johan den Dunnen DNA diagnostics = sharing data, Leiden University Medical Center (Leiden, The Netherlands). Introduced by Angela Solano

18:30-19:00 Coffee Break

19:00-20:00 Closing Lecture: Alejandro Schinder*: How aging influences remodeling of hippocampal circuits by neurogenesis. Fundación Instituto Leloir, (CABA, Argentina). Introduced by Alfredo Cáceres*

21:00-24:00 Dinner: Barbecue with Argentinean music and dance.

Day 5

Sunday October 1

9:00-10:20

Session 8 (follow up): Translational medicine of neurodegenerative disease III: Therapy, Bioinformatics and Registries.

Chairman: Romina Kohan, Facultad de Odontología - UNC (Córdoba, Argentina)

9:00-9:30 Norberto Guelbert: Translational Medicine: Therapeutic advances in lysosomal Pathologies. Head of the Metabolic Disease Section at the Children's Hospital Cordoba, Argentina.

9:30- 10:20 Lecture: David Arkadir: The prevention of Parkinson disease in GBA carriers: From clinical observations to the first clinical trial. The Hebrew University Jerusalem, Israel, Introduced by Paula Rozenfeld.

10:30-11:30- Round Table: International- Argentinean- German networking perspectives on: "Current Advances on Neurodegeneration: from Molecular Biology to Translational Medicine": 5 min each speaker, two slides if needed: Johan den Dunnen, Claudio Fernandez, Eckard Mandelkow, Donna Arndt-Jovin, Luis F. Mayorga, Faustino Siñeriz, Osvaldo Uchitel, Konrad Sandhoff, David Palmer, David Arkadir, Alejandro Schinder. Moderators: Alfredo Cáceres, Ines Noher de Halac.

Open session for alumni, students, researchers and professors.

END OF THE KOLLEG

Departure from Córdoba in the afternoon or optional half day excursion to the hills and departure next morning.

* Recipient of an AvH Research Award