CURRENT STATUS
OF EXPERIMENTAL NEUROIMMUNOLOGY
IN SLOVAKIA

Smolenice, May 24-26, 2017
Current Status of Experimental Neuro-Immunoology in Slovakia

Smolenice Castle, Slovakia
May 24-26, 2017

Organized by
The Institute of Neuroimmunology, Slovak Academy of Sciences

Co-organized with
Slovak Society for Neuroscience
Slovak Alzheimer’s Society
Supported by Axon Neuroscience SE

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Program

Wednesday 24 May 2017

14:00 – 15:00  Registration

15:00 – 15:15  Opening of the meeting
  Michal Novak

Richard Kvetnansky memorial
15:15 – 18:00  Stress and dementia: Contribution of Richard Kvetnansky to neuroendocrinology and neuroscience
  Chair: Michal Novak

  Boris Mravec  Stress and neurodegeneration: from CRH to norepinephrine
  Petr Novak  Stress-induced alterations of immune profile in animals suffering by tau protein-driven neurodegeneration

16:15 – 17:00  Coffee break

  Andrej Tillinger  Urocortin 2 in central and peripheral mechanisms of stress response
  Peter Filipcik  Role of CRH in pathogenesis of neurodegeneration

19:00  Welcome Dinner
Thursday 25 May 2017

Neuro-immune interactions I

9:00 - 9:30  Plenary session
Michal Novak  How to conquer Alzheimer’s disease in Slovakia

9:30 – 10:30  “Richard Kvetnansky prize”
To young researcher for best publication of the year
Chair: Dasa Cizkova
Kristina Lukacova  From neurons to singing
Adriana Murgoci  Characterization of exosomes derived from cortical and spinal cord primary microglia
Tomas Kalincik  Strategies for treating multiple sclerosis

10:30 – 11:00  Coffee break

11:00 – 12:00  Neuroimmune Interactions in Brain and Spinal Cord
Chair: Branislav Kovacech
Dasa Cizkova  Immune patrol following spinal cord injury: spatio-temporal study
Michal Prcina  Peculiarities of immune response to tau protein
Norbert Zilka  Tau therapy of human neurodegenerative tauopathies

12:00 – 13:30  Lunch

13:30 – 14:10  Alzheimer’s disease – can touch everyone
Chair: Darina Malatincova
Simona Krakovska  Early symptoms of dementia: neuropsychological perspective
Petra Brandoburova  Neuropsychology as the part of dementia diagnostic in Slovakia
14:10 – 15:30  Treatment and diagnostics of dementia

Chair: Norbert Zilka

Petr Novak  So – how far have we gotten with anti-tau therapy as of today?

Rostislav Skrabana  Flexible recognition and steric hindrance are the key structural principles of DC8E8 inhibition of tau protein oligomerization

Jozef Hanes  Highly sensitive immunological methods

Jaroslav Galba  Changes of tryptophan, kynurenine and their metabolites in rat model for tauopathy

15:30 – 16:10  Coffee break

16:10 – 17:30  Molecular mechanisms of dementia treatment

Chair: Rostislav Skrabana

Monika Zilkova  Microglia and tau protein in neurodegeneration

Martin Cente  Non-coding RNAs in pathogenesis of neurofibrillary degeneration

Ondrej Cehlar  Tau oligomers toxicity and neuronal spreading: preparation, fluorescence labelling and cell culture study

Tomas Smolek  Spreading of tau pathology in transgenic model of tauopathy

19:00  Dinner
Friday 26 May 2017

**Neuro-immune interactions II**

**New vistas of Neuroimmunology – young investigator session**

9:00 - 9:30  
*Plenary session*

**Tomas Hromadka**  
*Cortical circuits mediating cognitive dysfunction in Alzheimer's disease*

9:30 – 10:45  
**Experimental Neuroimmunology today and tomorrow**

*Chair: Eva Kontsekova & Branislav Kovacech*

**Santosh Jadhav**  
*Peripheral dendritic cells are decreased and functionally impaired in transgenic model of tauopathy*

**Petra Majerova**  
*Vascular inflammation in Guam Parkinsonism-Dementia*

**Alena Michalicova**  
*Changes of the neurovascular unit in transgenic rat model for tauopathies SHR-24*

**Thomas Vogels**  
*Truncated tau-mediated synaptic dysfunction in vivo*

**Veronika Brezovakova**  
*Impaired lymphatic vessel formation in transgenic rat model of tauopathy*

10:45 – 11:15  
**Coffee break**

11:15 – 12:00  
**General discussion & Closing remarks**

Head of the Institute of Neuroimmunology prof. Michal Novak

12:00 – 13:00  
**Lunch**