



**Institute
of Experimental
Medicine AS CR, v.v.i.**

EU Centre of Excellence

Prague 2017

„Regeneration, plasticity, protection“

Tuesday 10th January

Opening address

James Fawcett

Stem cells and biomaterials in SCI (10:00-11.00)

Hydrogels in SCI

Šárka Kubinová

Hyaluronic acid in SCI

Kristýna Závišková

Stem cells in SCI, a short overview

Pavla Jendelová

Protection in SCI (11.00-12.00)

Secretomes and MSCs

Irena Vacková

Antiinflammatory treatment in SCI

Lucia Machová-Urdziková

Nanoparticles with antioxidative surface in SCI

Klara Jiráková (Post doc)

Lunch

Protection in neurodegenerative diseases (13.00-14.30)

Induction, reprogramming and application of stem/iPS cells for the purpose of neuroprotection and neuroregeneration

Serhiy Forostyak

Repetitive application of cells and conditioned media in ALS disease

Monika Šeneklová (PhD Student)

IPS cells: modelling and therapy of neurodegenerative diseases

Slaven Erceg

Stem cells in Alzheimer's disease

Jiří Růžička (Post doc)

Coffee Break

Plasticity (15:00-16.30)



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ECM in auditory cortex

Josef Syka

Extracellular space diffusion parameters and extracellular matrix in brain aging and degeneration.

Lýdia Vargová

Plasticity of ion channels, ionotropic receptors and calcium signalling mechanisms in stem cells of different origins, different stages and different experimental conditions

Govindan Dayanithi

Spinal window for SCI

Barbora Svobodová (PhD Student)

Wednesday 11th January

Cambridge project related to Centre (9:30-10.30)

Extracellular matrix and perineural nets and their role in CNS plasticity

James Fawcett

The role of CSPGs in memory and regeneration

Jessica Kwok

Collaborations and chemistry related to Centre (10.30-11.30)

Effects of magnetic fields on neurons and central nervous system (CNS)

Vitaliy Zablotzky

ECM hydrogels preparation

Karel Výborný (PhD Student)

Materials from the Institute of Macromolecular chemistry

Kristýna Kárová (PhD Student)

Summing up by James Fawcett

Lunch

Discussion and Steering committee meeting



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