

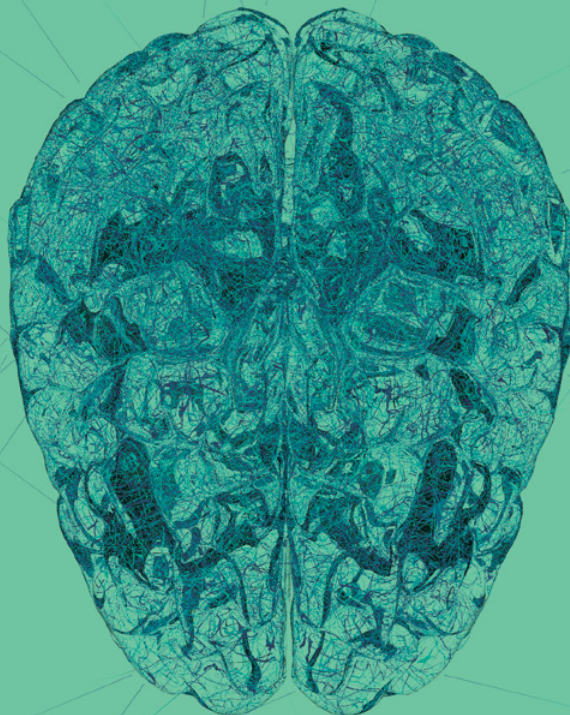


SiNAPSA

SLOVENSKO DRUŠTVO ZA NEVROZMANOST  
SLOVENIAN NEUROSCIENCE ASSOCIATION

# SNC'15

SINAPSA NEUROSCIENCE CONFERENCE '15



15-17 May, 2015  
LJUBLJANA, SLOVENIA

*Univerza v Ljubljani*



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA IZOBRAŽEVANJE,  
ZNANOST IN ŠPORT



*Naložba v vašo prihodnost*  
OPERATIVNI PROGRAM IZOBRAŽEVANJE, ZNANOST  
IN ŠPORT  
Evropski sklad za regionalni razvoj  
Evropska unija

## FRIDAY, 15 MAY 2015

8:00–19:00 **Registration** | Second Foyer

8:30–12:30 **Young Neuroscientists Forum Ljubljana '15** | Kosovel Hall

13:00–13:30 **Opening of the SNC'15** | Kosovel Hall

13:30–14:30 **AOŽ Memorial lecture** | Kosovel Hall

The tricks neurons use to express their genes: jumping genes, zero-length exons and RNA loops

*Jernej Ule*

14:30–16:30 **Symposium** | Kosovel Hall

### **Neuroeconomy**

*Chairs: Sergeja Slapničar, Grega Repovš*

Neuroeconomics and management control

*Sergeja Slapničar*

Dopamine and decision making

*Robb Rutledge*

Decomposing cognitive control in economic decision making

*Grega Repovš*

EEG investigations on the management control problem

*Philip Eskenazi*

16:30–17:00 **Coffee break** | Second Foyer

17:00–19:00 **Symposium** | Kosovel Hall

### **Neural responses and functional effects of dance on cognitive, emotional and motor performance**

*Chair: Maja Bresjanac*

The neural basis of dance and dance partnering

*Steven Brown*

Cognitive interactions in perceiving, performing and learning dance

*Bettina Bläsing*

Neural responses underlying dance imagery induced by music

*Maja Bresjanac*

Enhanced functional outcomes in older adults who dance regularly

*Rado Pišot*

19:00–21:00 **Welcome reception** | Second Foyer

## SATURDAY, 16 MAY 2015

8:00–19:00 **Registration** | Second Foyer

8:30–10:30 **Symposium** | E1,2 Hall  
**Cell's protein quality system and neurodegeneration**

*Chair: Eva Žerovnik*

Autophagy, p62/SQSTM1 and ALS-FTLD

*Alice Goode*

ALS- and FTLT-associated hexanucleotide repeat expansion mutation in C9orf72

*Boris Rogelj*

Modifications of FUS and implications in ALS and FTD

*Simona Darovic*

Mutual chaperoning by amyloid forming proteins/peptides

*Eva Žerovnik*

10:30–11:00 **Coffee break** | Second Foyer

11:00–12:00 **Plenary talk** | Kosovel Hall  
Psychedelic drugs in science and medicine

*Robin Carhart-Harris*

12:00–13:30 **Poster session** | Second Foyer

**Cellular neuroscience A**

**Clinical neuroscience A**

**Cognitive neuroscience A**

**Molecular neuroscience A**

**Systems neuroscience A**

13:30–14:30 **Plenary talk** | E1,2 Hall  
Autoimmune encephalitis and epilepsy – from synapse to symptoms

*Sukhvir Wright*

14:30–16:30 **Symposium** | E1,2 Hall  
**Autoimmunity, encephalitis and epilepsy - another Procrustes bed?**

*Chair: David Neubauer*

Autoimmune encephalitis and antibodies against neuronal cell antigens

*Sanja Stopinšek*

Severe form of autoimmune encephalitis in two children

*Mirjana Perkovič Benedik*

Autoimmunity and epilepsy in childhood

*Natalija Krajnc*

Can FIRES be a part of this story?

*Neli Bizjak*

16:30–17:00 **Coffee break** | Second Foyer

17:00–19:00 **Symposium** | E1,2 Hall  
**Nerve stimulation: From basic research to clinic**

*Chairs: Janez Rozman, Polona Pečlin*

General overview of nerve stimulation: From past to future  
*Winfried Mayr*

Implantable nerve interfaces developed in Slovenia and their use in research and clinical applications  
*Janez Rozman*

Twenty-nine year stimulation of the common peroneal nerve: A case report  
*Polona Pečlin*

Neuromodulation in the treatment of pelvic floor dysfunctions  
*Adolf Lukanović*

Our experience with vagal stimulation for heart rate control  
*Matej Podbregar*

Compound action potentials in an isolated rat sciatic nerve elicited with specific current stimulating pulses when exposed to anesthetic bupivacaine  
*Monika C. Žužek*

19:00–20:45 **Neuroscience & society dialogue - Scientific exploration of brain on drugs: Prizes and pitfalls** | Kosovel Hall

21:00–0:00 **Social evening** | Slamič Café

## SUNDAY, 17 MAY 2015

9:00–16:30 **Registration** | Second Foyer

9:30–11:30 **Symposium** | Kosovel Hall  
**Biomarkers of epileptogenesis, pharmacogenomics and functional brain connectivity in epilepsy**

*Chair: Bogdan Lorber*

Imaging epileptogenesis  
*Matthias Koepf*

Graph-theoretical analysis of language networks in temporal lobe epilepsy  
*David Gosar*

Pharmacogenomics of drug resistance in epilepsy  
*Andreja Avberšek*

11:30–12:00 **Coffee break** | Second Foyer

12:00–13:30 **Poster session** | Second Foyer

**Molecular neuroscience B**

**Cellular neuroscience B**

**Clinical neuroscience B**

**Cognitive neuroscience B**

**Systems neuroscience B**

13:30–15:30 **Symposium** | Kosovel Hall

**Multimodal imaging in diagnostics of preclinical stages of neurodegenerative disorders**

*Chairs: Žvezdan Pirtošek, Milica Gregorič Kramberger*

The overall design of the study, clinical and CSF data  
*Milica Gregorič Kramberger*

Neuropsychological markers of mild cognitive impairment  
*Simon Brezovar*

Event-related potentials during AX-CPT task  
*Jure Bon*

Altered white matter microstructure in mild cognitive impairment and Parkinson's disease  
*Indre Pileckyte*

Resting functional connectivity MRI data  
*Anka Slana*

FDG-PET data  
*Petra Tomše*

15:30–16:30 **Plenary talk** | Kosovel Hall

Human Brain Project: implications for neurology  
*Richard Frackowiak*

16:30–16:45 **Closing of the SNC'15** | Kosovel Hall

# YOUNG NEUROSCIENTISTS FORUM LJUBLJANA '15

## FRIDAY, 15 MAY 2015 | KOSOVEL HALL, CANKARJEV DOM

- 8:30–8:40 **Opening of the YNFL'15**
- 8:40–9:40 **Oral presentations 1**
- 8:40 The impact of upper motor neuron degeneration on respiration in wakefulness and sleep in amyotrophic lateral sclerosis  
*Judita Jeran*
- 9:00 Characterisation of co-culture of spinal cord explants and muscle cells after electroporation with FUS, a protein involved in ALS/FTLD  
*Sonja Pržar Mihevc*
- 9:20 Chronic social isolation reduces parvalbumin-positive interneurons in the medial prefrontal cortex of adult rats: protection by fluoxetine and clozapine  
*Nevena Todorović*
- 9:40–10:00 **Coffee break**
- 10:00–11:00 **Oral presentations 2**
- 10:00 The role of medial prefrontal cortex in uncertainty-based decision making in rats  
*Nace Mikuš*
- 10:20 The vulnerability of the structural connectome to stroke in older adults  
*Rok Berlot*
- 10:40 A simple and cost-effective q EEG evaluation shows marked differences between early Alzheimer's disease patients and controls  
*Bruna Pikiš*
- 11:00–11:20 **Coffee break**
- 11:20–12:20 **Coffee with neuroscientist Professor Jernej Ule**
- 12:20–12:30 **Closing of the YNFL'15**

# EDUCATIONAL WORKSHOP ON ADDICTION

**SATURDAY, 16 MAY 2015 | KOSOVEL HALL**

**8:30–10:30 Session I: Neurobiology**

8:30 Learning mechanisms of drug dependence  
*Jenn Murray*

9:30 Pleasant and unpleasant effects of alcohol  
*Dorit Ron*

**14:30–16:30 Session II: Alcohol addiction: Stigma, ethical challenges and treatment**

14:30 How can science help explain ethical issues related to alcohol dependence syndrome?  
*Zdenka Cebašek Travník*

15:00 Alcohol addiction treatment  
*Darja Boben Bardutzky*

15:30 (Neuro)science and alcohol dependence syndrome related stigma  
*Mirjana Radovanović*

16:00 Summary discussion

**17:00–19:00 Session III: Addiction, ADHD and psychoactive substance abuse**

17:00 Addiction, comorbidity and new psychoactive substances  
*Nuša Šegrec*

17:30 Epidemiology and clinical presentation of ADHD  
*Mirjana Delić*

17:50 Differential diagnosis and comorbidity in ADHD  
*Andrej Kastelic*

18:10 Treatment of adults with ADHD  
*Mirjana Delić*

18:30 ADHD, psychoactive substance abuse, addiction disorders and treatment  
*Andrej Kastelic*

18:50 Summary discussion

# EDUCATIONAL COURSE ON LATE-ONSET POMPE DISEASE

## FRIDAY, 15 MAY 2015 | E3 HALL, CANKARJEV DOM

- 13:00–14:00 **Catering lunch, venue**
- 14:00–14:15 **Welcome speech, programme announcement**  
*Organiser; Mr. Boris Suštaršič (President of the Muscular Dystrophy Association of Slovenia)*
- 14:15–16:05 **Clinical reviews**
- 14:15 Late Onset Pompe disease - overview  
*Žoran Mitrović (CRO)*
- 14:35 Diagnostic challenges in LOPD  
*Agnes Herczegfalvi (HU)*
- 14:55 Case report – two sisters  
*Katalin Vardi (HU)*
- 15:10 Pitfalls in adult Pompe disease diagnosis  
*Georgios Konstantinos Papadimas (GR)*
- 15:30 LGMD and pseudo GAA deficiency: a case from Croatia  
*Rujana Šprljan Alfrev (CRO)*
- 15:45 Patient perspective  
*Marko Studen (SLO)*
- 16:05–16:25 **Coffee break**
- 16:25–18:00 **Diagnostic reviews**
- 16:25 EMG in LOPD: Where to start, what to expect?  
*Ervina Bilić (CRO)*
- 16:40 Case study: juvenile/adult patient  
*Danijela Petković Ramadža (CRO)*
- 16:55 Detecting GAA deficiency by DBS – how sensitive and how specific?  
*Ksenija Fumić (CRO)*
- 17:10 The impact of molecular diagnosis  
*Karin Wrižl (SLO)*
- 17:25 Muscle biopsy in Pompe disease  
*Marija Meznarič (SLO)*
- 17:40 General discussion
- 17:55 Wrap up and closing, 1st day
- 20:00–23:00 **Dinner** | Gostilna na gradu (meeting point 19:30 Hotel Slon for walking, 19:40 Erjavčeva Street for bus transfer)



## SATURDAY, 16 MAY 2015 | E3 HALL, CANKARJEV DOM

### 9:15–10:50 **Patient assessment**

- 9:15 Patient association screening project  
*Lea Leonardis (SLO)*
- 9:35 Automated LGMD Diagnostic Assistant  
*Svetlana Tomić (CRO)*
- 9:55 Bulgarian experience with high risk testing project  
*Teodora Chamova (BG)*
- 10:15 Parents refusing of child's diagnose - what's the next step? A case from Serbia  
*Slavica Ostojić (SER)*
- 10:30 Patient follow up  
*Anca Hancu (RO)*

### 10:50–11:10 **Coffee break**

### 11:10–13:00 **Disease control**

- 11:10 Toward the therapy of LOPD  
*Danijela Petković Ramadža (CRO)*
- 11:30 Case study: patient refuses the therapy  
*Lea Leonardis (SLO)*
- 11:45 Internist check up  
*Ivan Pećin (CRO)*
- 12:00 Therapy, weight control, diet and exercise – physician's perspective  
*Zsuzsanna Almassy (HU)*
- 12:20 Therapy, weight control, diet and exercise – patient's perspective  
*Pompe patient (HU)*
- 12:40 General discussion
- 12:55 Wrap up and closing
- 13:00 **Lunch / departure**

# KLINIČNI SIMPOZIJ

## Zgodnja diagnostika in obravnava psihotičnih motenj

PETEK, 15. MAJ 2015 | DVORANA EI,2, CANKARJEV DOM

15:00–16:30 **Klinični simpozij**  
**Zgodnja diagnostika in obravnava psihotičnih motenj**  
*Moderatorja: Borut Škodlar, Jurij Bon*

Uvod  
*Jurij Bon*

Razvoj diagnostičnih kriterijev za prodromalna stanja in prve psihotične epizode  
*Vesna Gaberšek*

Pomen bazičnih simptomov in motenj zavedanja sebe za zgodnjo diagnostiko  
*Matej Potočan*

Psihotična stanja v otroštvu in mladostništvu - klinična slika, diagnostika in obravnava  
*Barbara Šegula*

16:30–17:30 **Satelitski simpozij (Eli Lilly)**  
*Moderator: Andrej Kastelic*

Uvod  
*Andrej Kastelic*

Patofiziološko ozadje ADHD in možnost zdravljenja v odrasli dobi  
*Jurij Bon*

Zdravljenje ADHD v odrasli dobi - praktični primer bolnika  
*Hojka Gregorič Kumperščak*

Razprava in zaključki  
*Andrej Kastelic*

17:30–18:00 **Odmor s kavo**

18:00–19:00 **Klinični simpozij - nadaljevanje**  
**Zgodnja diagnostika in obravnava psihotičnih motenj**  
*Moderatorja: Borut Škodlar, Jurij Bon*

Pregled raziskav o medikamentoznem in psihoterapevtskem zdravljenju v prodromalnem obdobju  
*Marko Saje*

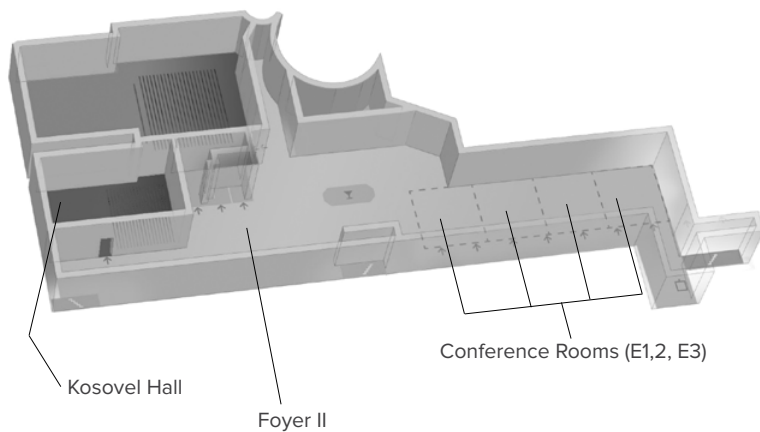
Primerjava teoretičnih vidikov psihoterapevtskih pristopov v prodromalnih stanjih in pri prvi psihotični epizodi  
*Borut Škodlar*

Kognitivne motnje in disfunkcije nevronske omrežij v različnih fazah bolezni  
*Grega Repovš*

## FLOOR PLAN OF THE LECTURE ROOMS

The conference will take place in **Foyer II** of **Cankarjev dom**, Prešernova cesta 10, Ljubljana.

### -2 / Foyer II



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