Ljubljana, 23. 08. 2018

# VABILO - INVITATION

## Mini simpozij – Minisymposium

# NEVROGLIJA V NORMALNIH IN PATOLOŠKIH RAZMERAH

# NEUROGLIA IN HEALTH AND DISEASE

## 31. 08. 2018, SAZU, Prešernova dvorana, Novi trg 4, Ljubljana

Po letu 1856, ko so bile opisane celice nevroglije, ki niso električno vzdražne kakor nevroni, so raziskave mirovale do leta 1994, ko je bilo odkrito, da tudi te celice, kakor nevroni, izločajo kemične prenašalce. Od takrat pa do danes je postalo jasno, da te celice sooblikujejo prenos informacij v osrednjem živčevju in delujejo kot podporne in obrambne celice, predvsem kot energetska podpora nevronskim mrežam. V okviru Japonsko-Slovenskega sodelovanja bo predstavljeno delo treh laboratorijev iz Japonske na področju nevrobiologije o vlogi nevroglije v normalnih in patoloških razmerah, s ciljem bodočih skupnih raziskav.

Neuroglial cells, electrically nonexcitable cells, were first described in 1856. However, research of these cells paused until 1994, when it was discovered that these cells, like neurons, secrete chemical transmitters. Since then, it has become clear that neuroglial cells contribute to information processing in the central nervous system and act as support and defense cells. Moreover, they provide energy for neuronal networks. Within the framework of the Japan-Slovenian cooperation, the work of three Japanese neurobiology laboratories will be presented with the aim of generating future joint research.

Predavanja bodo v angleščini.

10.00 – 10.05 **Opening** (Robert Zorec, Vice-President of Slovenian Academy of Sciences and Arts)
10.05 – 10.35 **Neuron-glia interaction and sex-dependent animal behaviors in thyroid dysfunction** (Mami Noda, Kyushu University, Japan)
10.35 – 11.05 **Neuroimmunological function of astrocytes in injured mouse brain and LPS stimulated primary culture** (Hiroko Ikeshima-Kataoka, Waseda University, Japan)
11.05 – 11.35 **Multiple pathways for ATP/adenosine release in the brain** (Mitsuhiro Morita, Kobe University, Japan)
11.35 – 12.05 **Break**
12.05 – 12.25 **Astroglial exocytosis as pharmacological target of ketamine; recent facts confronting earlier fiction** (Matjaž Stenovec, University of Ljubljana, Slovenia)
12.25 – 12.45 **Adrenergic regulation of astroglial morphology, excitability and metabolism** (Nina Vardjan, University of Ljubljana, Slovenia)
12.45 – 13.05 **From fusion of membranes to clinical trial for cancer treatment** (Helena H. Chowdhury, University of Ljubljana, Slovenia)
13.05 – 13.25 **Discussion and closing**

Prof. H.H. Chowdhury, President SFD, l.r. Prof. R. Zorec, Vice-President SAZU, l.r.