VALÉRIA ÉVA MESZLÉNYI

Szeged Scientists Academy, 5th year

University of Szeged,
Faculty of Medicine, 6th year

YEAR OF BIRTH:

1996

FORMER SZENT-GYÖRGYI PUPIL:

no

SZENT-GYÖRGYI MENTOR:

László Siklós

JUNIOR MENTOR:

Roland Patai

SPECIALIZATION:

neuroscience

SECONDARY SCHOOL:

Petőfi Sándor Secondary School, Bonyhád

NAME OF TEACHER:

Andrea Nagy

LANGUAGES:

English/intermediate
German/intermediate

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Our research group is mainly interested in acute and chronic neurodegeneration. In our current experiments, we have been investigating motor neurons and their neighboring non-neuronal cells, such as Schwann-cells during acute neurodegeneration. In the field of chronic neurodegeneration, we focus on amyotrophic lateral sclerosis and its pathobiology and our main goal is to find possible therapeutic approaches.

AMBITIONS AND CAREER GOALS

In the course of my scientific career I would like to investigate the complex interactions of different factors leading to motor neuronal degeneration. My aim is to gain proper knowledge that can serve the human society and medical science. I hope it will give me a possibility to contribute to the development of novel therapeutic strategies.

HONORS AND PRIZES

2021 - XXXV. National Conference of Scientific Students' Associations, 1st Prize
2020 - Local Conference of Scientific Students' Associations, 1st Prize
2021 - University of Szeged, Sófi József Foundation, Diamond Prize
2020 - Szeged Scientists Academy, Outstanding Student Prize
2020 - Scholarship for Educational Achievements from the City Council of Szeged
2020/21 - New National Excellence Program Scholarship
2020/21 - National Higher Education Scholarship
2020 - University of Szeged, Talent of the Year Scholarship
2020 - University of Szeged, Sófi József Foundation, Gold Prize
2019 - Apáthy István Memorial Prize

PUBLICATIONS

Meszlényi, V., Patai, R., Polgár, T.F., Nógrádi, B., Körmöczy, L., Kristóf, R., Spisák, K., Tripolszki, K., Széll, M., Obál, I., Engelhardt, J.I., Siklós, L. (2020) Passive Transfer of Sera from ALS Patients with Identified Mutations Evokes an Increased Synaptic Vesicle Number and Elevation of Calcium Levels in Motor Axon Terminals, Similar to Sera from Sporadic Patients. **Int J Mol Sci 21:** 5566.

Nógrádi, B., **Meszlényi, V.**, Patai, R., Polgár, T.F., Siklós, L. (2020) Diazoxide blocks or reduces microgliosis when applied prior or subsequent to motor neuron injury in mice. **Brain Res 1741:** 145891.

Obál, I., Nógrádi, B., **Meszlényi, V.**, Patai, R., Ricken, G., Kovacs, G.G., Tripolszki, K., Széll, M., Siklós, L., Engelhardt, J.I. (2019) Experimental Motor Neuron Disease Induced in Mice with Long-Term Repeated Intraperitoneal Injections of Serum from ALS Patients. **Int J Mol Sci 20:** 2573.