

CURRICULUM VITAE

Personal details

Full name: Inna Elizarova

Date of birth: 12 July 2002

Affiliation

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Education

2020-2024 Bachelor student, Chair of Human and Animal Physiology,

Biology Department, Saratov State University

Specialization

06.03.01 – Biology

Research interests

The cerebral lymphatic system; neuroimmunology, brain drug delivery, neurophotonics, anesthesiology, electroencephalography.

Employment

2023 – now Laboratory assistant in the Laboratory of Smart Sleep of Scientific Medical Center at the Saratov State University. Job description: surgery, conducting chronic and acute experiments on animals.

Grants

Grant from Russian Science Foundation № 23-75-30001

“Pilot technology for photomodulation of the immune system of the animal and human brain: innovative strategies in the treatment of Alzheimer's disease” (leading investigator)

Role in this project: EEG system development, development technology for photobiomodulation of the immune system of the animal brain, conducting experiments.

Main publications

1. Oxana Semyachkina-Glushkovskaya, Konstantin Sergeev, Nadezhda Semenova, Andrey Slepnev, Anatoly Karavaev, Alexey Hramkov, Mikhail Prokhorov, Ekaterina Borovkova, Inna Blokhina, Ivan Fedosov, Alexander Shirokov, Alexander Dubrovsky, Andrey Terskov, Maria Manzhayeva, Valeria Krupnova, Alexander Dmitrenko, Daria Zlatogorskaya, Viktoria Adushkina, Arina Evsukova, Matvey Tuzhilkin, Inna Elizarova, Egor Ilyukov, Dmitry Myagkov, Dmitry Tuktarov, Jürgen Kurths. Machine learning



technology for EEG-forecast of the blood-brain barrier leakage and the activation of brain's drainage system during isoflurane anesthesia. **Biomolecules**. 2023. 13, 1605. <https://doi.org/10.3390/biom13111605>

Impact factor – 5.5 (Q1)

2. Oxana Semyachkina-Glushkovskaya, Konstantin Sergeev, Nadezhda Semenova, Andrey Slepnev, Anatoly Karavaev, Alexey Hramkov, Mikhail Prokhorov, Ekaterina Borovkova , Inna Blokhina, Ivan Fedosov, Alexander Shirokov, Alexander Dubrovsky, Andrey Terskov, Maria Manzhaeva, Valeria Krupnova , Alexander Dmitrenko, Daria Zlatogorskaya, Viktoria Adushkina, Arina Evsukova, Matvey Tuzhilkin, Inna Elizarova , Egor Ilyukov , Dmitry Myagkov , Dmitry Tuktarov and Jürgen Kurths. Technology of photobiostimulation of brain's drainage system during sleep for improvement of learning and memory in male mice. **Biomedical Optics Express**. 2023 (accepted)

Impact factor – 3.56 (Q1)

3. Blokhina IA, Koronovskii AA Jr, Dmitrenko AV, Elizarova IV, Moiseikina TV, Tuzhilkin MA, Semyachkina-Glushkovskaya OV, Pavlov AN. Characterization of Anesthesia in Rats from EEG in Terms of Long-Range Correlations. **Diagnostics (Basel)**. 2023 Jan 24;13(3):426. doi: 10.3390/diagnostics13030426.

Impact factor – 3.992(Q2)

4. Koronovskii AA Jr, Blokhina IA, Dmitrenko AV, Tuzhilkin MA, Moiseikina TV, Elizarova IV, Semyachkina-Glushkovskaya OV, Pavlov AN. Extended Detrended Fluctuation Analysis of Coarse-Grained Time Series. **Diagnostics (Basel)**. 2022 Dec 28;13(1):93. doi: 10.3390/diagnostics13010093.

Impact factor – 3.992 (Q2)