

# Ruzanna Arsen Shushanyan

✉ ruzanna.shushanyan@ysu.am



## Research Institute of Biology

Laboratory of Human and Animal Physiology

Junior Researcher

## Education

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Chair of Human and Animal Physiology
<b>Date</b>	2021 - 2024
<b>Degree name</b>	PhD student

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Chair of Human and Animal Physiology
<b>Date</b>	2019 - 2021
<b>Degree name</b>	Masters

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<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Faculty of Biology, Chair of Zoology
<b>Date</b>	2015 - 2019
<b>Degree name</b>	Bachelor

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## Language skills

Հայերեն English Русский

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## Work experience

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<b>Institution</b>	YSU, Faculty of Biology, Department of Human and Animal Physiology
<b>Period of time</b>	2023 till now
<b>Rank/degree</b>	Senior Laboratory Assistant

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<b>Institution</b>	Yerevan State University, Research Institute of Biology
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Junior researcher

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<b>Institution</b>	Institute for Informatics and Automation Problems NAS RA
<b>Period of time</b>	2019 till now
<b>Rank/degree</b>	Junior researcher

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## Scientific interests

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- Neuroscience, Neuroanatomy, Neurochemistry, Histology, Pathophysiology
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## Participation in international conferences and seminars

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<b>22/03/2021 - 04/04/2021</b>	Best Practices for Biomedical Research Data Management Harvard Medical School United States of America (the)
<b>20/08/2022 - 09/09/2022</b>	Online Summer School of Molecular Medicine University of Jena Germany
<b>06/11/2023 - 10/11/2023</b>	9th International Youth Scientific Conference of YSU SSS Armenia
<b>21/10/2024 - 23/10/2024</b>	The 1st International Conference for Young Neuroscientists “Brain and Neuroplasticity” Georgia
<b>26/05/2023</b>	Driving Force of Science: Neuroscience & Toxicology hosted by Enterprise Incubator Foundation (EIF) Armenia
<b>29/06/2024 - 03/07/2024</b>	The 48th FEBS Congress 'Mining biochemistry for human health and well-being' Italy
<b>08/07/2023 - 12/07/2023</b>	The 47th FEBS Congress 'Together in bioscience for a better future' France

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## Membership

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<b>Institution</b>	Federation of European Biochemical Societies
<b>Period of time</b>	2022 till now
<b>Institution</b>	BIO-SEE Society (Biomedical Imaging Organization for South East Europe)
<b>Period of time</b>	2022 till now

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## Publications

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*Article*

**Morphological abnormalities of peripheral blood cells among patients with COVID-19 disease**  
Anna Karapetyan, Lyudmila Niazyan, Ruzanna Shushanyan, Tamara Abgaryan, Sevan Iritsyan,

Tehmine Galechyan, Sargsyan Knarik, Anna Grigoryan  
Heliyon 2024 e24527

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*Article*

**The role of oxidative stress and neuroinflammatory mediators in the pathogenesis of high-altitude cerebral edema in rats**

Ruzanna A. Shushanyan, Nikolay V. Avtandilyan, Anna V. Grigoryan, Anna F. Karapetyan

Respiratory Physiology and Neurobiology 2024 104286

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*Article*

**THE EVALUATION OF MAST CELLS, TNF- $\alpha$  EXPRESSION AND TUNEL-POSITIVE NEURONS IN THE BRAIN DURING INFLAMMATORY RESPONSE INDUCED BY ACUTE HYPOBARIC HYPOXIA**

R.A. Shushanyan

Proceedings of the YSU B: Chemical and Biological Sciences 2024 86-94

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*Article*

**Histopathological changes of mice tissues in course of the envenomation by the *Macrovipera lebetina obtusa* venom and the neutralizing effect of the ovine-derived experimental antivenom**

Gevorg Avagyan, Hasmik Yerosyan, Arsen Kishmiryan, Ruzanna Shushanyan, Arthur Melkonian,

Naira M. Ayvazyan

Toxicon 2024 107821

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*Article*

**Antioxidant effects of *Crataegus laevigata* on rat's brain under hypobaric hypoxia-induced oxygen deficiency**

Karapetyan M.A., Adamyan N.Yu., Shushanyan R.A., Karapetyan A.F.

Neurochemical Journal 2023 477-481

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*Article*

**Cardiovascular Adaptability of Young Adults under Physical Activity during the Post-COVID-19 Period**

E. S. Gevorkyan, K. V. Baghdasaryan, R. A. Shushanyan, A. F. Karapetyan

Human Physiology (Физиология человека) 2023 562-572

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*Article*

**Histological and cytochemical analysis of the brain under conditions of hypobaric hypoxia-induced oxygen deficiency in albino rats**

Ruzanna Shushanyan, Anna Grigoryan, Tamara Abgaryan, Anna Karapetyan

Acta Histochemica 2023 152114

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*Article*

**HYPOBARIC HYPOXIA CAUSES HISTOMORPHOLOGICAL ALTERATIONS IN THE DIFFERENT PARTS OF THE RAT'S BRAIN**

R. A. SHUSHANYAN, A. V. GRIGORYAN, A. F. KARAPETYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2022 266-274

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*Article*

**ASSESSMENT OF COLLABORATION PATTERNS IN THE FIELD OF BIOLOGY IN ARMENIA DURING 2007-2020: A BIBLIOMETRIC OVERVIEW**

*Article*

**The role of socio-economic and scientometric indicators in the cancer mortality rate**  
Shushanik Sargsyan, Parandzem Hakobyan, Ruzanna Shushanyan, Aram Mirzoyan, Viktor Blaginin  
Upravlenets (The Manager) 2022 54-68

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*Conference*

**Assessment of NO level and histological alterations in the rats brain during high altitude cerebral edema induced by hypobaric hypoxia**  
R. Shushanyan, A. Karapetyan, A. Grigoryan

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*Conference*

**Cytotoxic effect of the of SARS COV-2 on peripheral blood cells in the pathogenesis of COVID-19 disease**  
A. Karapetyan, A. Grigoryan, L. Niazyan, R. Shushanyan, T. Abgaryan, T. Galechyan, S. Irityan,  
K. Sargsyan

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*Conference*

**Acute brain edema associated with the elevated levels of oxidative stress mediators and TNF-alpha in rats: biochemical and immunohistochemical assessment**  
R. Shushanyan, A. Grigoryan, E. Nadiryan, A. Karapetyan

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*Conference*

**Assessment of long-term cardiovascular complications of SARS-COV-2 in young adults**  
E. Gevorkyan, R. Shushanyan, K. Hovhannisyan, A. Karapetyan

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*Conference*

**The morphofunctional changes in rat's liver under conditions of 7, 12-DMBA-induced breast cancer after NG-Nitro-L-arginine methyl ester treatment**  
A. Grigoryan, R. Shushanyan, N. Avtandilyan, A. Karapetyan

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