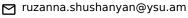
### Ruzanna Arsen Shushanyan



#### Research Institute of Biology

Laboratory of Human and Animal Integrative and Adaptive Physiology Researcher



#### Education

Institution Yerevan State University

**Faculty** Faculty of Biology, Chair of Human and Animal Physiology

2019 - 2021 **Date** Degree name Masters

Institution Yerevan State University

**Faculty** Faculty of Biology, Chair of Zoology

2015 - 2019 **Date** Bachelor Degree name

### Scientific Rank/degree

Institution Yerevan State University

**Date** 2025 Degree name Candidate

Specialty Biological sciences Scientific Supervisor Anna Karapetyan

Research Topic Assessment of morphofunctional changes in some organs of rats under acute

hypobaric hypoxic conditions

#### Language skills

Հայերեն English Русский



#### **Work experience**

Institution Yerevan State University, Research Institute of Biology

Period of time 2025 till now Rank/degree Researcher

Institution YSU, Faculty of Biology, Department of Human and Animal Physiology

Period of time 2023 - 2025

Rank/degree Senior Laboratory Assistant

Institution	Yerevan State University, Research Institute of Biology
Period of time	2021 - 2024
Rank/degree	Junior researcher
Institution	Institute for Informatics and Automation Problems NAS RA
Period of time	2019 till now
Rank/degree	Junior researcher

### Scientific interests

- Neuroscience
- Neuroanatomy
- Neurochemistry
- Histology
- Human Physiology
- Science Communication & Policy

### Participation in international conferences and seminars

06/10/2025 - 08/10/2025	9th Congress of the Serbian Neuroscience Society Serbia
23/07/2025 - 26/07/2025	XXIX International Symposium on Morphological Sciences (ISMS 2025) Portugal
12/06/2025 - 14/06/2025	Multifaceted Neuroscience:MFN 2025 Conference Georgia
02/06/2025 - 08/06/2025	PROM – Short-Term Academic Exchange Program John Paul II Catholic University of Lublin Poland
22/03/2021 - 04/04/2021	Best Practices for Biomedical Research Data Management Harvard Medical School United States of America (the)
20/08/2022 - 09/09/2022	Online Summer School of Molecular Medicine University of Jena Germany
21/10/2024 - 23/10/2024	The 1st International Conference for Young Neuroscientists "Brain and Neuroplasticity" Georgia

29/06/2024 - 03/07/2024	The 48th FEBS Congress 'Mining biochemistry for human health and well-being' Italy
08/07/2023 - 12/07/2023	The 47th FEBS Congress 'Together in bioscience for a better future' France

#### Membership

Institution	FENS (Federation of European Neuroscience Societies
Period of time	2025 till now
Institution	Society for Neuroscience SfN
Period of time	2025 till now
Institution	Federation of European Biochemical Societies
Period of time	2022 till now
Institution	BIO-SEE Society (Biomedical Imaging Organization for South East Europe)
Period of time	2022 - 2025



#### Publications

#### Article

#### Tissue remodeling during high-altitude pulmonary edema in rats: Biochemical and histomorphological analysis

Ruzanna A. Shushanyan, Hasmik M. Karapetyan, Edita E. Nadiryan, Nikolay V. Avtandilyan,

Anna V. Grigoryan, Anna F. Karapetyan

Tissue and Cell 2025 102727

#### Article

#### Histomorphological assessment of T-2 toxin, ochratoxin A, and aflatoxin B1-induced renal damage in a rat model

Anna Grigoryan, Tamara Abgaryan, Ruzanna Shushanyan, Ruzanna Adamyan, Marieta Mkhitaryan, Lyudmila Niazyan, Anna Karapetyan

Ukrainian Journal of Nephrology and Dialysis 2025 14-23

#### Article

#### Investigating the interplay of immune response and redox homeostasis in hypoxic brain injury at high altitude

Ruzanna Shushanyan, Hasmik Karapetyan, Nona Adamyan, Anna Karapetyan

European Journal of Anatomy 2025 551-561

#### 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

Article

Heliyon 2024 e24527

#### The role of oxidative stress and neuroinflammatory mediators in the pathogenesis of highaltitude cerebral edema in rats

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

Respiratory Physiology and Neurobiology 2024 104286

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

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 Yeranosyan, Arsen Kishmiryan, Ruzanna Shushanyan, Arthur Melkonian,

Naira M. Ayvazyan

Toxicon 2024 107821

Article

#### ASSESSMENT OF CHANGES IN HEART RATE VARIABILITY INDICES OF STUDENTS AFTER COVID-19 LOCKDOWN: A COHORT STUDY

Emma Gevorkyan, Ruzanna Shushanyan, Karine Hovhannisyan, Marietta Karapetyan, Anna Karapetyan Медицинские новости Грузии (Georgian medical news) 2024 199-204

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

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

Article

#### Histological and cytochemical analysis of the brain under conditions of hypobaric hypoxiainduced oxygen deficiency in albino rats

Ruzanna Shushanyan, Anna Grigoryan, Tamara Abgaryan, Anna Karapetyan

Acta Histochemica 2023 152114

Article

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

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

Article

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

R. A. Shushanyan, M. J. Ohanyan

Biological Journal of Armenia 2022 93-100

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

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

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. Iritsyan,

K. Sargsyan

Conference

Acute brain edema associated with the elevated levels of oxidative stress mediators and TNFalpha in rats: biochemical and immunohistochemical assessment

R. Shushanyan, A. Grigoryan, E. Nadiryan, A. Karapetyan

Conference

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

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

Conference

Impact of Sea Buckthorn Oil and Dexamethasone on Hematological Parameters in Hypoxia-Exposed Rats

Anna Grigoryan, Ruzanna Shushanyan, Tamara Abgaryan, Milena Shahbazyan, Tatev Poghosyan, Zarik Stepanyan, Nona Grigoryan, Anna Karapetyan

Conference

Liver Regeneration and Immune System Interactions: Evidence from Thymus and Bursa of Fabricius in Chickens

Tamara Abgaryan, Anna Grigoryan, Ruzanna Shushanyan, Milena Shahbazyan, Anna Karapetyan

#### Conference

#### The impact of high altitude hypoxia on brain and liver: histomorphological insights into hepatic-neurovascular interactions

R. Shushanyan, A. Grigoryan, T. Abgaryan, A. Karapetyan

Conference

## **MORPHOFUNCTIONAL CHANGES IN THE BURSA OF FABRICIUS DURING LIVER REGENERATION** T. Abgaryan, A. Grigoryan, R. Shushanyan, A. Karapetyan