

# Gayane Hmayak Poghosyan

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## Research Institute of Biology

Laboratory of Biophysics of Subcellular Structures

Junior Researcher

## 🌐 Language skills

English Русский Հայերեն

## 📖 Publications

*Article*

### **EFFECT OF EXTREMELY HIGH FREQUENCY ELECTROMAGNETIC IRRADIATION TREATMENT ON GERMINATION, GROWTH AND AMYLASE ACTIVITY OF WHEAT SEEDS**

G.H.POGHOSYAN, M.S. MIKAELYAN, P.H.VARDEVANYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2023 19-31

*Article*

### **ВЗАИМОДЕЙСТВИЕ СЫВОРОТОЧНОГО АЛЬБУМИНА С ЭРИТРОЗИНОМ В ПОД ВОЗДЕЙСТВИЕМ ЭЛЕКТРОМАГНИТНЫХ ВОЛН МИЛЛИМЕТРОВОГО ДИАПАЗОНА**

М.А. Парсаданян, М.А. Шагинян, С.В. Григорян, М.С. Микаелян, Г.А. Погосян, В.П. Калантарян,

П.О. Вардеванян

Известия НАН РА. Физика (Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 643-651

*Article*

### **Interaction of Serum Albumin with Erythrosine B under the Influence of Millimeter-Range Electromagnetic Waves**

M.A. Parsadanyan, M.A. Shahinyan, S.V. Grigoryan, M.S. Mikaelyan, G.H. Poghosyan, V.P. Kalantaryan,

P.O. Vardevanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 428-434

*Article*

### **STUDY OF ASPIRIN EFFECT ON STABILITY OF MEMBRANES OF RAT BLOOD ERYTHROCYTES BY ACIDIC HEMOLYSIS METHOD**

Gayane H. Poghosyan, Marieta S. Mikaelyan, Mariam A. Shahinyan, Evelina G. Sargsyan,

Anahit V. Nerkararyan

Proceedings of the YSU B: Chemical and Biological Sciences 2022 56-62

*Article*

### **STUDY OF THE JOINT EFFECT OF MILLIMETER RANGE ELECTROMAGNETIC IRRADIATION AND CADMIUM IONS ON MALONIC DIALDEHYDE CONCENTRATION AND CATALASE ACTIVITY IN WHEAT SEEDLING CELLS**

Zh.H. Mukhaelyan, M.A. Shahinyan, G.H. Poghosyan

Proceedings of the YSU B: Chemical and Biological Sciences 2019 18-22

Article

**The influence of low-intensity EMI treatment on seed germination and early growth of wheat**

Poghosyan G. H., Mukhaelyan Zh. H.

Proceedings of the YSU B: Chemical and Biological Sciences 2018 110-115

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Article

**Effect of whole body extremely high frequency electromagnetic irradiation exposure on lipid peroxidation in rats**

Gayane Poghosyan, Marieta Mikaelyan, Anahit Nerkararyan, Poghos Vardevanyan

Biologija 2017 238-245

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Article

**Wheat Seedlings Growth and Antioxidant System Activity Changes as Responses to Extremely High Frequency Electromagnetic Irradiation**

Zhanna H. Mukhaelyan, Mariam A. Shahinyan, Gayane H. Poghosyan, P.O. Vardevanyan

American Journal of Plant Biology 2016 1-10

<http://ivyunion.org/index.php/ajplantbio/about>

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Article

**Effect of extremely high frequency EMI on lipid peroxidation and antioxidant enzymes of wheat shoots.**

Mukhaelyan Zh.H., Poghosyan G.H., Vardevanyan P.H.

Biological Journal of Armenia 2016 21-29

<http://www.flib.sci.am/eng/Biology/>

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Article

**Effect of Cadmium ions on Lipid peroxidation and Activities of antioxidant enzymes of growing wheat (*Triticum aestivum* L.) shoots**

Mukhaelyan Zh.H., Poghosyan G.H., Vardevanyan P.H.

Biological Journal of Armenia 2015 51-57

<http://www.flib.sci.am/eng/Biology/>

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Conference

**EFFECT OF EXTREMELY HIGH FREQUENCY EMI ON LIPID PEROXIDATION AND ACTIVITIES OF ANTIOXIDANT ENZYMES OF WHEAT SHOOTS**

Mukhaelyan Zhanna H., Poghosyan Gayane H., Vardevanyan Poghos H.

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Conference

**WHEAT SEEDLINGS GROWTH AND ANTIOXIDANT SYSTEM ACTIVITY CHANGES AS RESPONSES TO MILLIMETER WAVES IRRADIATION**

Mukhaelyan Z.H., Poghosyan G.H., Vardevanyan P.H.

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Conference

**CADMIUM-INDUCED OXIDATIV STRESS AND GROWTH PARAMETERS OF WHEAT PLANTS**

Mukhaelyan Z.H., Poghosyan G.H., Vardevanyan P.H.

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Conference

**Влияние электромагнитного излучения миллиметрового диапазона на хемилюминесценцию и активность антиоксидантной системы проростков *Triticum Aestivum* L.**

Вардеванян П.О., Закарян А.Е., Погосян Г.А., Мухаелян Ж.Г.

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*Conference*

**Whole body extremely high frequency electromagnetic irradiation exposure effect on lipid peroxidation in rats**

Poghosyan G.H., Mikaelyan M.S., Nerkararyan A.V., Vardevanyan P.H.

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*Conference*

**Combined effect of cadmium ions and millimeter range electromagnetic waves on growth and antioxidant enzymes activity of wheat seedlings**

Gayane Poghosyan, Zhanna Mukhaelyan, Poghos Vardevanyan

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*Conference*

**Effect of whole body extremely high frequency electromagnetic irradiation exposure on antioxidant enzymes activity in rats**

Gayane H. Poghosyan, Poghos H. Vardevanyan, Marieta S. Mikaelyan, Anahit V. Nerkararyan

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*Conference*

**Влияние ЭМИ КВЧ на активность процессов перекисного окисления и антиоксидантной активности крови крыс in vivo**

Погосян Г.А., Неркарян А.В., Микаелян М.С., Вардеванян П.О.

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*Conference*

**Раздельное и совместное действие кадмия и ЭМИ КВЧ-диапазона на рост и перекисное окисление липидов проростков пшеницы**

Погосян Г.А., Мухаелян Ж.Г., Вардеванян П.О.

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*Conference*

**Wheat Seed Treatment with 51,8 GHz Electromagnetic Field Induces Changes in Germination and Seedling Early Growth**

Poghosyan G. H.

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*Conference*

**Изучение перекисного окисления липидов в эритроцитах крови крыс облученной ЭМИ КВЧ in vitro**

Погосян Г.А., Вардеванян П.О., Неркарян А.В., Микаелян М.С., Шагинян М.А.

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*Conference*

**Оценка эффектов воздействия миллиметровых волн низкой интенсивности и ионов кадмия на проростки пшеницы**

Погосян Г.А., Мухаелян Ж.Г., Вардеванян П.О.

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*Conference*

**Cadmium Induced Changes in Membrane-Associated Processes of Mitochondrial Isolated from Triticum Aestivum Seedlings**

Gayane H. Poghosyan, Poghos H. Vardevanyan

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*Conference*

**Evaluation of Oxidative Effects in Male Wistar Rats Following Extremely High Frequency Electromagnetic Irradiation Exposure.**

Gayane H. Poghosyan, Anahit V. Nerkararyan, Poghos H. Vardevanyan

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*Conference*

**Influence of low-intensity millimeter waves on lipid peroxidation and antioxidant enzymes activity in male Wistar rats**

Gayane H. Poghosyan, Marieta S. Mikaelyan, Anahit V. Nerkararyan

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*Conference*

**Germination response of *Triticum aestivum* seeds to different exposure times of low-intensity EMI treatment**

Gayane H. Poghosyan, Zhanna H. Mukhaelyan

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*Conference*

**Исследование связывания метиленового фиолетового с сывороточным альбумином человека**

Погосян Г.А., Шагинян М.А., Микаелян М.С., Антонян А.П.

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*Conference*

**Влияние миллиметровых электромагнитных волн на перекисное окисление липидов и хемилюминесценцию мембран эритроцитов крови человека *in vitro***

Вардеванян П.О., Погосян Г.А., Микаелян М.С.

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*Conference*

**Влияние ионов кадмия на активность митохондрий, изолированных из проростков пшеницы (*Triticum Aestivum* L.)**

Антонян А.П., Погосян Г.А., Саргсян Э.Г.

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