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Research Institute of Biology
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Faculty of Biology
Chair of Biophysics
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Education

Institution	Yerevan State University
Faculty	Biology
Date	2005 - 2007
Degree name	Masters

Institution	Yerevan State University
Faculty	Biology
Date	2001 - 2005
Degree name	Bachelor

Scientific Rank/degree

Institution	Yerevan State University
Date	2017
Degree name	Candidate
Scientific Supervisor	Prof. Vardevanyan P.O.
Research Topic	Effect of millimeter range electromagnetic waves on some constituents of blood

Language skills

English Русский Հայերեն Français

Publications

Article
Dopamine and serotonin: overview of the functions and function disorders, leading to

neurodegeneration
Hrant Avanesyan, Marine Parsadanyan, Mariam Shahinyan, Arsen Lokyan, Marieta Mikaelyan,

Svetlana Grigoryan, Poghos Vardevanyan

Neurophysiology 2026 1-14

https://doi.org/10.1007/s11062-026-10001-9

Article

Fluorescence Characteristics of Hoechst 33258 Complexes with Single-Stranded and Double-Stranded Polyribonucleotides in Solution at Various Solution Ionic Strengths
A.P. Antonyan, P.O.Vardevanyan, M.S.Mikaelyan, G.H.Poghosyan, G.H. Kocharyan, M.A.Parsadanyan

Journal of Applied Spectroscopy 2025 1280-1285

Article

Comparative study of spectral properties of the bovine serum albumin complexes with acridine orange and methylene blue under the effect of millimeter range electromagnetic waves
A.P. Antonyan, M.A. Shahinyan, M.S. Mikaelyan, A.H. Karapetyan, V.P. Kalantaryan, P.O. Vardevanyan

Electromagnetic Biology and Medicine 2025 1-11

Article

INTERACTION OF DOPAMINE WITH DNA, DEPENDING ON THE IONIC STRENGTH OF THE SOLUTION: POTENTIAL APPLICATION IN SENSOR TECHNOLOGY
Marine A. Parsadanyan, Hrant M. Avanesyan, Arsen B. Lokyan, Sahak V. Hovhannisyan,

Mariam A. Shahinyan, Marieta S. Mikaelyan, Gaspar H. Kocharyan, Ara P. Antonyan,

Poghos O. Vardevanyan

Georgian Medical News 2025 69-75

Article

Influence of millimeter range electromagnetic waves on bovine serum albumin interaction with acridine orange
M.A. Parsadanyan, M.A. Shahinyan, M.S. Mikaelyan, S.V. Grigoryan, G.H. Poghosyan, P.O. Vardevanyan

Electromagnetic Biology and Medicine 2024 1-11

Article

Absorption and Fluorescence Characteristics of the Binding of Ethidium Bromide with Synthetic Single- and Double-Stranded Polyribonucleotides
A.P. Antonyan, P.O. Vardevanyan, M.S. Mikaelyan, G.H. Kocharyan, G.H. Poghosyan, M.A. Parsadanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2024 103-110

Conference

ИССЛЕДОВАНИЕ СПЕКТРАЛЬНЫХ ХАРАКТЕРИСТИК БЫЧЬЕГО СЫВОРОТОЧНОГО АЛЬБУМИНА ПОД ВЛИЯНИЕМ ЭЛЕКТРОМАГНИТНЫХ ВОЛН МИЛЛИМЕТРОВОГО ДИАПАЗОНА
Григорян С.В., Шагинян М.А., Микаелян М.С., Парсаданян М.А., Вардеванян П.О.

2024 13 - 13

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Article

ERYTHROCYTES AS A MODEL FOR STUDYING THE EFFECT OF TEMPERATURE ON THE RESISTENCE OF CELLULAR MEMBRANES
M.S.Mikaelyan, M.A. Shahinyan, M.A. Parsadanyan

Proceedings of the YSU B Chemical and Biological Sciences 2023 118-125

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

Proceedings of NAS RA Physics 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

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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Comparision of methyl violet interaction with bovine serum albumin and human serum albumin by UV-denaturation method

Shahinyan M.A., Mikaelyan M.S., Parsadanyan M.A., Antonyan A.P.

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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

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ИССЛЕДОВАНИЕ ВЛИЯНИЯ ММ ЭМВ НА КОМПЛЕКСООБРАЗОВАНИЕ HOECHST 33258 С БИОМАКРОМОЛЕКУЛАМИ
Вардеванян П.О., Шагинян М.А., Микаелян М.С., Григорян С.В.

Russian Journal of Biological Physics and Chemisrty 2022 40-44

Article

Effect of resonant electromagnetic irradiation and aspirin on surface tension of human blood plasma in vitro
M.S. Mikaelyan, M.A.Shahinyan, S.V.Grigoryan, M.A.Parsadanyan

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Article

STUDY OF PERMEABILITY OF FISH SKIN
Marine A. Parsadanyan, Marieta S. Mikaelyan

Proceedings of the YSU B Chemical and Biological Sciences 2021 212-216

Article

EFFECT OF ELECTROMAGNETIC IRRADIATION AND ASPIRIN ON SURFACE TENSION OF HUMAN BLOOD PLASMA IN VITRO
A.V. Nerkararyan, M.S. Mikaelyan, S.V. Grigoryan

Proceedings of the YSU B Chemical and Biological Sciences 2021 217-223

Conference

EPIGENETIC EVENTS IN WHEAT SEEDLINGS NUCLEI ABIOTIC STRESS RESPONSES
Minasbekyan L.A., Mikaelyan M.S., Avagyan I.A.

2021 56-56

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Study manual

Լաբորատոր աշխատանքներ կենսաֆիզիկայից: ՄԱՍ 1 (ուսումնամեթոդական ձեռնարկ)
Գ.Հ. Փանոսյան, Ս.Ա. Ղոնյան, Ա.Վ. Ներկարարյան, Մ.Ս. Միքաելյան

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Article

EFFECT OF MILLIMETER RANGE ELECTROMAGNETIC WAVES ON COMPLEX-FORMATION OF ETHIDIUM BROMIDE AND HOECHST 33258 WITH DNA
M. A. Shahinyan, M. S. Mikaelyan, M. A. Torosyan, A. T. Karapetyan

Proceedings of the YSU B Chemical and Biological Sciences 2020 125-131

Article

INFLUENCE OF LOW DOSE GAMMA-IRRADIATION ON THE ELECTROKINETIC POTENTIAL OF WHEAT SEEDLINGS CELLULAR NUCLEI
L.A. Minasbekyan, A.V. Nerkararyan, M.S. Mikaelyan, R.R. Sadoyan

Proceedings of the YSU B Chemical and Biological Sciences 2020 118-124

Article

INFLUENCE OF MILLIMETER RANGE ELECTROMAGNETIC WAVESON HEMOLYSIS KINETICS OF RAT BLOOD ERYTHROCYTES
Shahinyan M.A., Mikaelyan M.S., Nerkararyan A.V.

Proceedings of the YSU B Chemical and Biological Sciences 2020 209-215

Article

BOVINE SERUM ALBUMIN DENATURATION IN THE PRESENCE OFHOECHST 33258 AND METHYLENE BLUE

P.O. Vardevanyan, M.S. Mikaelyan, N.H. Petrosyan

Proceedings of the YSU B Chemical and Biological Sciences 2020 204-208

Conference

Study of human serum albumin interaction with some ligands

P. Vardevanyan, Y. Mamasakhlisov, M. Shahinyan, M. Mikaelyan, N. Petrosyan

2020 134-135

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Article

Study of Methylene Blue Interaction with Human Serum Albumin

Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan,

Marieta S. Mikaelyan

Biophysical Reviews and Letters 2019 17-25

Article

Study of the influence of millimeter range electromagnetic waves on methylene blue complexes with human serum albumin

Mariam A. Shahinyan, Ara P. Antonyan, Vitali P. Kalantaryan, Marieta S. Mikaelyan,

Poghos O. Vardevanyan

Journal of Electromagnetic Waves and Applications 2019 2317-2327

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

2019 87

https://www.tandfonline.com/loi/tbsd20

Conference

ВЛИЯНИЕ ЭЛЕКТРОМАГНИТНЫХ ВОЛН МИЛЛИМЕТРОВОГО ДИАПАЗОНА НА ДНК И ДНКЛИГАНД КОМПЛЕКСЫ В ВОДНО-СОЛЕВОМ РАСТВОРЕ

Антонян А.П., Шагинян М.А., Микаелян М.С., Вардеванян П.О.

2019 7-8

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Conference

Comparison of methylene blue interaction with human serum albumin and DNA

Shahinyan M.A., Mikaelyan M.S., Vardevanyan P.O.

2019 85-86

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Կենսաֆիզիկայի լաբորատոր աշխատանքների ձեռնարկ: Մաս 2 (Ուլտրամանամեթոդական ձեռնարկ)

Պ.Հ. Վարդևանյան, Ա.Վ. Ներկարարյան, Մ.Ա. Շահինյան, Մ.Ս. Միքաելյան

2019 146

Article

EFFECT OF MILLIMETER ELECTROMAGNETIC WAVES ON BUFFER CAPACITY OF ALBUMIN
M.A. SHAHINYAN, M.S. MIKAELYAN, M.R. DARBINYAN, A.V. NERKARARYAN

Proceedings of the YSU B Chemical and Biological Sciences 2018 105-109

Article

AGGREGATIVE PROPERTIES OF ERYTHROCYTE UNDER THE INFLUENCE OF MILLIMETER RANGE ELECTROMAGNETIC WAVES
M.A. Shahinyan, M.S. Mikaelyan, M.R. Darbinyan, P.O. Vardevanyan

Proceedings of the YSU B Chemical and Biological Sciences 2018 187-192

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

2018 155-155

http://icsb.vdu.lt/

Conference

Влияние ЭМИ КВЧ на активность процессов перекисного окисления и антиоксидантной активности крови крыс in vivo
Погосян Г.А., Неркарарян А.В., Микаелян М.С., Вардеванян П.О.

2018 62-62

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Conference

Влияние миллиметровых электромагнитных волн на буферную емкость плазмы крови крыс
Вардеванян П.О., Неркарарян А.В., Шагинян М.А., Микаелян М.С.

2018 15-16

http://cong-2018.biophys.ru/

Conference

Изучение перекисного окисления липидов в эритроцитах крови крыс облученной ЭМИ КВЧ in vitro
Погосян Г.А., Вардеванян П.О., Неркарарян А.В., Микаелян М.С., Шагинян М.А.

2018 142-143

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Conference

Effect of millimeter range electromagnetic waves on some biophysical characteristics of human serum albumin
Mariam Shahinyan, Ara Antonyan, Marieta Mikaelyan, Poghos Vardevanyan

2018 29-30

http://physecolab.ysu.am/workshop2018/index.html

Conference

Effect of millimeter range electromagnetic waves on some properties of erythrocytes
Marieta Mikaelyan, Mariam Shahinyan, Anahit Nerkararyan, Poghos Vardevanyan

2018 31-32

http://physecolab.ysu.am/workshop2018/index.html

Article

Time-Dependent Changes of Albumin Water Solutions After Irradiation by Electromagnetic Waves with Extremely High Radio Frequencies

Mariam A. Shahinyan, Marieta S. Mikaelyan, Meri R. Darbinyan, Poghos O. Vardevanyan

Biophysical Reviews and Letters 2017 11-17

http://www.worldscientific.com/worldscinet/brl

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

Conference

Density of erythrocytes in suspension under the effect of millimeter electromagnetic waves

Marieta S. Mikaelyan, Mariam A. Shahinyan, Poghos O. Vardevanyan

2017 55-55

http://icsb.vdu.lt/

Conference

Effect of millimeter range electromagnetic waves on erythrocyte suspension

Mariam A. Shahinyan, Marieta S. Mikaelyan, Anahit V. Nerkararyan

2017 70-70

http://icsb.vdu.lt/

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.

2017 162-162

https://eltalpykla.vdu.lt/handle/1/35686

Article

ВЛИЯНИЕ ЭЛЕКТРОМАГНИТНЫХ ВОЛН МИЛЛИМЕТРОВОГО ДИАПАЗОНА НА ФЛУОРЕСЦЕНЦИЮ ВОДНО-СОЛЕВЫХ РАСТВОРОВ СЫВОРОТОЧНОГО АЛЬБУМИНА ЧЕЛОВЕКА

П.О. Вардеванян, А.П. Антонян, М.А. Шагинян, М.С. Микаелян

Journal of Applied Spectroscopy 2016 496-499

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Article

Influence of Electromagnetic Waves with Extremely High Frequencies on Some Criteria of Blood Plasma

P.O. Vardevanyan, A.P. Antonyan, A.V. Nerkararyan, M.A. Parsadanyan, M.A. Shahinyan, M.R. Darbinyan, M.S. Mikaelyan

Armenian Journal of Physics 2016 106-109

http://ajp.asj-oa.am/

Article

INFLUENCE OF MILLIMETER ELECTROMAGNETIC WAVES ON FLUORESCENCE OF WATER-SALINE SOLUTIONS OF HUMAN SERUM ALBUMIN

Vardevanyan P.O., Antonyan A.P., Shahinyan M.A., Mikaelyan M.S.

Journal of Applied Spectroscopy 2016 486-489

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Conference

The effect of electromagnetic waves with extremely high frequencies and low intensity on human albumin solution

Poghos Vardevanyan, Vitali Kalantaryan, Mariam Shahinyan, Marina Parsadanyan, Mareta Mikaelyan

2016 465-466

Conference

Влияние электромагнитного излучения миллиметрового диапазона на конформационные свойства сывороточного альбумина человека

Вардеванян П.О., Парсаданян М.А., Шагинян М.А., Микаелян М.С.

2016 55-57

Article

Effect of low intensity EMW EHF on suspension density of rat blood erythrocytes.

Poghos O. Vardevanyan, Mariam A. Shahinyan, Anahit V. Nerkararyan, Marieta S. Mikaelyan,

Meri R. Darbinyan

Brazilian journal of biological sciences 2015 193-197

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Article

Study of influence of millimeter range electromagnetic waves on water-saline solutions of albumin

Mariam A. Shahinyan, Ara P. Antonyan, Marieta S. Mikaelyan, Poghos O. Vardevanyan

Biophysical Reviews and Letters 2015 201-207

http://www.worldscientific.com/worldscinet/brl

Article

Surface charge density of rat blood erythrocytes under the influence of millimeter diapason electromagnetic radiation.

A.V. Nerkararyan, M.S. Mikaelyan, M.A. Shahinyan, P.O. Vardevanyan

Biological Journal of Armenia 2015 16-20

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

Conference

Influence of electromagnetic waves with extremely high frequencies on rat blood plasma surface tension

A.V. Nerkararyan, M.A. Shahinyan, M.S. Mikaelyan, P.O. Vardevanyan

2015 37-38

Conference

Effect of millimeter diapason electromagnetic irradiation on albumin denaturation

P.O. Vardevanyan, A.P. Antonyan, M.A. Shahinyan, M.A. Parsadanyan, M.S. Mikaelyan

2015 41-42
