Marieta Samvel Mikaelyan

48-77
m.mikaelyan@ysu.am

Research Institute of Biology
Group for the Study of the Interaction of Active Compounds with Biomacromolecules
Scientific Worker

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
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

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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
Медицинские новости Грузии (Georgian medical news) 2025 69-75

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
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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

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
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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
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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
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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

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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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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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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
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Article

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

Актуальные вопросы биологической физики и химии 2022 40-44

Article

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

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A.V. Nerkararyan, M.S. Mikaelyan, S.V. Grigoryan

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

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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

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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

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INFLUENCE OF MILLIMETER RANGE ELECTROMAGNETIC WAVESON HEMOLYSIS KINETICS OF RAT BLOOD ERYTHROCYTES

Shahinyan M.A., Mikaelyan M.S., Nerkararyan A.V.

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

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Study of Methylene Blue Interaction with Human Serum Albumin

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

Marieta S. Mikaelyan

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EFFECT OF MILLIMETER ELECTROMAGNETIC WAVES ON BUFFER CAPACITY OF ALBUMIN

M.A. SHAHINYAN, M.S. MIKAELYAN, M.R. DARBINYAN, A.V. NERKARARYAN

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AGGREGATIVE PROPERTIES OF ERYTHROCYTE UNDER THE INFLUENCE OF MILLIMETER RANGE ELECTROMAGNETIC WAVES

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

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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

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

Gayane Poghosyan, Marieta Mikaelyan, Anahit Nerkararyan, Poghos Vardevanyan

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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

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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

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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.

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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

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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

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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

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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

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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

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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

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Conference

Влияние электромагнитного излучения миллиметрового диапазона на конформационные свойства сывороточного альбумина человека
Вардеванян П.О., Парсаданян М.А., Шагинян М.А., Микаелян М.С.

Conference

Density of erythrocytes in suspension under the effect of millimeter electromagnetic waves
Marieta S. Mikaelyan, Mariam A. Shahinyan, Poghos O. Vardevanyan

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Conference

Effect of millimeter range electromagnetic waves on erythrocyte suspension
Mariam A. Shahinyan, Marieta S. Mikaelyan, Anahit V. Nerkararyan

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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.

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., Неркарарян А.В., Микаелян М.С., Вардеванян П.О.

Conference

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

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.

Conference

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

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Conference

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

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.

Conference

Comparison of methylene blue interaction with human serum albumin and DNA
Shahinyan M.A., Mikaelyan M.S., Vardevanyan P.O.

Conference

Study of human serum albumin interaction with some ligands
P. Vardevanyan, Y. Mamasakhlisov, M. Shahinyan, M. Mikaelyan, N. Petrosyan

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Исследование связывания метиленового фиолетового с сывороточным альбумином человека
Погосян Г.А., Шагинян М.А., Микаелян М.С., Антонян А.П.

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.

Conference

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

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.