Marine Ashot Parsadanyan

Research Institute of Biology
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Education

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	1989 - 1994
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2022
Degree name	Doctor
Research Topic	Interaction of different ligands with synthetic polynucleotide poly(rA)-poly(rU)

Institution	Yerevan State University
Date	2012
Degree name	Associate professor

Institution	Yerevan State University
Date	2002
Degree name	Candidate
Scientific Supervisor	Poghos Vardevanyan
Research Topic	Structural changes in genome of some cereal germs at germination

Language skills

Русский English

Publications

Article

Study of neurotransmitter dopamine interaction with DNA by electrochemical and spectroscopic methods
Poghos O. Vardevanyan, Gaspar H. Kocharyan, Marine A. Parsadanyan, Anna V. Vardanyan, Mariam A. Shahinyan, Ara P. Antonyan

Biophysical Chemistry 2026 107552

Article

Levofloxacin-loaded surfactant nanocarriers: a computational study
Arin Sharoyan, Vahram Hakobyan, Hayk Melkonyan, Hrachya Ishkhanyan, Armen H. Poghosyan, Marine A. Parsadanyan, Ara P. Antonyan, Poghos O. Vardevanyan

Nanoscale Advances 2026 1648 - 1660

https://doi.org/10.1039/d5na00884k

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

Role of the FhlA transcriptional activator in metabolic changes in Escherichia coli during fermentation of mixed carbon sources at acidic pH
Heghine Gevorgyan, Marine Parsadanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

Biochimie 2025 1-9

Article

Molecular simulation study of RNA/dopamine complex dynamics at varying concentrations
Armen H. Poghosyan, Yevgeni S. Mamasakhlisov, Marine A. Parsadanyan, Mariam A. Shahinyan, Zvart H. Movsisyan, Poghos O. Vardevanyan

Scientific Reports 2025 21379

Article

Study of Fluorescent Properties of Methylene Blue Complexes with Ribo- and Deoxyribo-Polynucleotides
A.P.Antonyan, M.A.Parsadanyan, A.H.Karapetyan, P.O.Vardevanyan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2025 108-114

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

Affinity Assessment of DNA-Specific of Ethidium Bromide and Methylene Blue Intercalator Ligands with Poly(rA), Poly(rU), and Poly(rA)–Poly(rU) (ОЦЕНКА СТЕПЕНИ СРОДСТВА ДНК-СПЕЦИФИЧЕСКИХ ЛИГАНДОВ ИНТЕРКАЛЯТОРОВ БРОМИСТОГО ЭТИДИЯ И МЕТИЛЕНОВОГО СИНЕГО С...

Vardevanyan P.O., Antonyan A.P., Matevosyan A.G., Parsadanyan M.A., Movsisyan Z.O.

Journal of Applied Spectroscopy 2024 65-73

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

Article

Binding Parameters of Mitoxantrone and Ethidium Bromide with A-Form Nucleic Acids Based on Adsorption Isotherms [Параметры связывания митоксантрона и бромистого этидия с А-формой нуклеиновых кислот по изотермам адсорбции]

V. P. Kalantaryan, R. S. Ghazaryan, Y. S. Babayan, M. A. Parsadanyan

Proceedings of NAS RA Physics 2024 404–407

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

ВЗАИМОДЕЙСТВИЕ СЫВОРОТОЧНОГО АЛЬБУМИНА ЧЕЛОВЕКА С МЕТИЛОВЫМ ФИОЛЕТОВЫМ ПОД ВОЗДЕЙСТВИЕМ ЭЛЕКТРОМАГНИТНЫХ ВОЛН МИЛЛИМЕТРОВОГО ДИАПАЗОНА

П.О. ВАРДЕВАНЯН, М.А. ШАГИНЯН, М.А. ПАРСАДАНЯН, С.В. ГРИГОРЯН, В.П. КАЛАНТАРЯН

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Article

Human Serum Albumin Interaction with Methyl Violet under the Influence of Millimeter-Range

Electromagnetic Waves
P.O. Vardevanyan, M.A. Shahinyan, M.A. Parsadanyan, S.V. Grigoryan, V.P. Kalantaryan

Journal of Contemporary Physics (Armenian Academy of Sciences) 2023 198-203

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

Study of complexation of single-stranded poly(rA) and poly(rU) with methylene blue
Poghos O. Vardevanyan, Ara P. Antonyan, Zvart H. Movsisyan, Marine A. Parsadanyan,

Mariam A. Shahinyan, Karine R. Grigoryan, Hasmik A. Shilajyan

Journal of Biomolecular Structure and Dynamics 2023 15320-15327

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

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Conference

Влияние мультипликативного шума на выходной сигнал ДНК-биосенсора
Алоян Л., Аракелян В.Б., Парсаданян М.А., Вардеванян П.О.

2023 40 - 41

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Article

Study of complexes of Hoechst 33258 with poly(rA)-poly(rU) depending on various ionic strengths in the water-saline solution
Vardevanyan P.O., Parsadanyan M.A., Antonyan A.P., Shahinyan M.A.

Journal of Biomolecular Structure and Dynamics 2022 1182-1188

Article

Study of interaction of methylene blue with DNA and albumin
Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan,

Nara H. Petrosyan

Journal of Biomolecular Structure and Dynamics 2022 7779-7785

Article

Флуоресцентные характеристики комплексов Hoechst 33258 с сывороточным альбумином и ДНК
Антонян А.П., Парсаданян М.А., Петросян Н.Г., Вардеванян П.О.

Journal of Applied Spectroscopy 2022 519-524

Article

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.

Proceedings of the YSU B Chemical and Biological Sciences 2022 136-140

Article

Взаимодействие метиленового синего с одноцепочечными полинуклеотидами poly(rA) и poly(rU) и с двухцепочечным полинуклеотидом poly(rA)-poly(rU)
Антонян А.П., Мовсесян З.О., Парсаданян М.А., Вардеванян П.О,

Russian Journal of Biological Physics and Chemisrty 2022 251-255

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

Proceedings of the YSU B Chemical and Biological Sciences 2022 218-224

Article

WHEAT PROTEIN INCREASING THROUGH RADIATION TECHNOLOGIES
L.A. MINASBEKYAN, M. A. PARSADANYAN

Proceedings of the Yerevan Sate University B: Chemical and Biological Science 2022 225–230

Conference

Binding of poly(rA)-poly(rU) with methylene blue
Z.H.Movsisyan, P.O.Vardevanyan, A.P.Antonyan, M.A.Parsadanyan

2022 173-174

Conference

ОСОБЕННОСТИ СВЯЗЫВАНИЯ МЕТИЛЕНОВОГО СИНЕГО С ОДНОЦЕПОЧЕЧНЫМИ СИНТЕТИЧЕСКИМИ ПОЛИНУКЛЕОТИДАМИ POLY(rA) И POLY(rU)
Антонян А.П., Парсаданян М.А., Мовсесян З.О., Шиладжян А.А., Григорян К.Р., Вардеванян П.О

2022 103-104

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Article

Duplex-triplex transition in complexes of nucleic acids with Hoechst 33258
M.A.Parsadanyuan
ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2021 39-45

Article

BINDING PECULIARITIES OF POLY(rA)-POLY(rU) WITH MINOR GROOVE LIGAND HOECHST 33258
M.A. Parsadanyan, M.A. Shahinyan, Z.H. Movsisyan, A.P. Antonyan

Proceedings of the YSU B Chemical and Biological Sciences 2021 144-150

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

ИЗМЕНЕНИЕ ВЫХОДНОГО СИГНАЛА ДНК-БИОСЕНСОРА, ИНДУЦИРОВАННОГО АДСОРБЦИЕЙ ЛИГАНДОВ НА ДУПЛЕКСЫ ДНК В ФЛУКТУИРУЮЩЕЙ СРЕДЕ

В.Б. Аракелян, А.П. Антонян, М.А. Парсаданян, М.А. Шагинян, П.О. Вардеванян

Биофизика (Biophysics) 2020 670-675

Article

Термодинамика взаимодействия синтетического полинуклеотида poly(rA)-poly(rU) с лигандами -интеркаляторами

П.О.Вардеванян, А.П.Антонян, М.А.Парсаданян

Proceedings of NAS RA Physics 2020 126-135

Article

Thermodynamic analysis of Hoechst 33258 interaction with poly(rA)-poly(rU)

P.O.Vardevanyan, M.A.Parsadanyan

Biological Journal of Armenia 2020 17-23

Article

Spectroscopic study of interaction of various GCcontent DNA with Hoechst 33258 depending on Na+ concentration

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

Armen T. Karapetyan

Journal of Biomolecular Structure and Dynamics 2020 1-6

Article

STUDY OF METHYLENE BLUE INTERACTION WITH SYNTHETIC POLYNUCLEOTIDE POLY(rA)-POLY(rU)

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

Proceedings of the YSU B Chemical and Biological Sciences 2020 112-117

Article

Hybridization kinetics of DNA fragments in the presence of ligands intercalating into DNA-duplexes

Valeri B. Arakelyan, Aleksandr Y. Mamasakhlisov, Eduard M. Kazaryan, Marine A. Parsadanyan,

Poghos O. Vardevanyan

Journal of Biomolecular Structure and Dynamics 2020 1-6

Article

Study of binding peculiarities of ethidium bromide and methylene blue with double-stranded RNA

M.A.Parsadanyan

Proceedings of the YSU B Chemical and Biological Sciences 2020 38-45

Conference

Study of the influence of the ionic strength on complex-formation of ethidium bromide with

DNA and RNA
A.Antonyan, M.Parsadanyan, M.Shahinyan, P.Vardevanyan

2020 19-20

https://science.rau.am/uploads/documents/1626176120.pdf

Conference

Interaction of Double Stranded Nucleic Acids with Different Ligands
Vardevanyan P., Parsadanyan M., Antonyan A., Shaninyan M.

2020 134-135

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Conference

Thermodynamic Analysis of Hoechst 33258 Interaction with Poly(rA)-Poly(rU)
Parsadanyan M., Antonyan A., Shahinyan M., Vardevanyan P.

2020 108-109

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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 the ionic strength on complex-formation of ethidium bromide with poly(rA)-poly(rU)
Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan

Journal of Biomolecular Structure and Dynamics 2019 1-7

Article

HOECHST 33258 COMPOUND INTERACTION WITH DIFFERENT GC-CONTENT DNA
A.P. ANTONYAN, M.A. PARSADANYAN, M.A. TOROSYAN, A.T. KARAPETYAN

Proceedings of the YSU B Chemical and Biological Sciences 2019 107-112

Article

COMPARATIVE STUDY OF ETHIDIUM BROMIDE INTERACTION WITH SYNTHETIC POLYNUCLEOTIDES ds-POLY(rA)-POLY(rU) AND ds-POLY(dA)-POLY(dT)
Parsadanyan M.A.

ԵՊՀ Գիտական տեղեկագիր, Բնական գիտություններ 2019 175-179

Conference

Comparative study of binding of some intercalating compounds with DNA.
Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan,

Victoria G. Sahakyan

2019 77-77

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Conference

Effect of concentration of ligands on DNA-biosensor average output signal and dispersion.
Valeri B. Arakelyan, Marine A. Parsadanyan, Poghos O. Vardevanyan

2019 79

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Study of three-component system, consisted of DNA complexes with ligands of different type.
Ara P. Antonyan, Marine A. Parsadanyan, Narek H. Shahnazaryan, Poghos O. Vardevanyan

2019 84-84

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Conference

ВЛИЯНИЕ АДСОРБЦИИ ЛИГАНДОВ НА СТАТИСТИЧЕСКИЕ ХАРАКТЕРИСТИКИ ВЫХОДНОГО СИГНАЛА ДНК-БИОСЕНСОРА
Аракелян В.Б., Антонян А.П., Парсаданян М.А., Шагинян М.А., Вардеванян П.О.

2019 107-107

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Conference

ИЗУЧЕНИЕ КОМПЛЕКСОВ ДНК С ЛИГАНДАМИ РАЗЛИЧНОЙ ПРИРОДЫ
Вардеванян П.О., Парсаданян М.А., Антонян А.П., Шагинян М.А.

2019 132-133

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Conference

Peculiarities of the interaction of different ligands with nucleic acids
Antonyan A.P., Parsadanyan M.A., Vardevanyan P.O.

2019 92-93

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Article

Спектроскопическое исследование связывания нетропсина и Hoechst 33258 с нуклеиновыми кислотами.
Вардеванян П.О., Парсаданян М.А., Антонян А.П., Саакян В.Г.

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Article

Interaction of Methylene blue with sinhetic polynucleotide poly(dA)-poly(dT).
Parsadanyan Marine A., Antonyan Ara P., Vardevanyan Poghos O., Sngryan H.E.

Biophysical Reviews and Letters 2018 29-36

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Article

STUDY OF COMPARATIVE INTERACTION OF ETHIDIUM BROMIDE AND MITOXANTRONE WITH NUCLEIC ACIDS
A. P. ANTONYAN, M. A. TOROSYAN, M. A. PARSADANYAN

Proceedings of the YSU B Chemical and Biological Sciences 2018 52–57

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Effect of millimeter range electromagnetic waves on water-saline solutions of DNA and its

complexes with different ligands
Marine Parsadanyan, Ara Antonyan, Narek Shahnazaryan, Poghos Vardevanyan

2018 33-33

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Article

Исследование совместного связывания акридинового оранжевого и бромистого этидия с ДНК
П.О.Вардеванян, А.П.Антонян, М.А.Парсаданян, В.Г.саакян

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Article

Melting parameters of DNA complexes with several intercalators
A.P.Antonyan, M.A.Parsadanyan, V.G.Sahakyan, P.O.Vardevanyan

Proceedings of the YSU B Chemical and Biological Sciences 2017 27-30

http://www.ysu.am/science/hy/journals

Article

Анализ термодинамических параметров связывания бромистого этидия и митоксантрона с ДНК по изотермам адсорбции
П.О.Вардеванян, М.А.Парсаданян, А.П.Антонян, С.Н.Акопян

Журнал физической химии (Russian Journal of Physical Chemistry A) 2017 1071-1073

http://www.maik.ru/ru/journal/fizkhim/

Article

Exploring the interaction of ethidium bromide and Hoechst 33258 with DNA by means of electrochemical approach.
Tavadyan Levon A., Minasyan Seyran H., Kocharyan Gaspar H., Antonyan Ara P., Sahakyan Viktoria G.,

Parsadanyan Marine A., Vardevanyan Poghos O.

Biophysical Reviews and Letters 2017 151-161

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Article

Peculiarities of interaction of synthetic polyribonucleotide poly(rA)-poly(rU) with some intercalators
Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan,

Victoria G. Sahakyan

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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

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Joint interaction of ethidium bromide and methylene blue with DNA. The effect of ionic strength on binding thermodynamic parameters
Poghos O. Vardevanyan, Ara P.Antonyan, Marine A. Parsadanyan, Margarita A.Torosyan,

Armen T.Karapetian
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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

Behavior of ethidium bromide-Hoechst 33258-DNA and ethidium bromide-methylene blue-DNA triple systems by means of UV melting.
Poghos O. Vardevanyan, Ara P. Antonyan, Marine A. Parsadanyan, Mariam A. Shahinyan,

Gayane A. Melkonyan
International Journal of Spectroscopy 2015 1-5

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Article

Спектры поглощения и флуоресценции комплексов полинуклеотидов с бромистым этидием.
П.О. Вардеванян, А.П. Антонян, М.А. Парсаданян, М.В. Минасянц

Proceedings of NAS RA Physics 2015 511-519

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Determination of the isosbestic point in the absorption spectra of DNA-ethidium bromide complexes
P.O. Vardevanyan, V.L. Elbakyan, M.A. Shahinyan, Minasyants M.V., Parsadanyan M.A., Sahahakyan N.S.

Journal of Applied Spectroscopy 2015 1060-1063

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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

Article

Воздействие низкоэнергетического миллиметрового электромагнитного излучения на стабильность молекул ДНК в растворе
Ю.С. Бабаян, А.Ш. Маргарян, В.П. Калантарян, Р.С. Казарян, М.А. Парсаданян, П.О. Вардеванян

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http://elibrary.ru/title_about.asp?id=7680