

Резюме

Цаканова Гоар Васильевна, канд. биол. наук

Зам. директора, старший научный сотрудник, Институт молекулярной биологии НАН РА,
Ереван, Армения.

Зав. Лабораторией, старший научный сотрудник, Институт синхротронных исследований
КЕНДЛ, Ереван, Армения.



ОБРАЗОВАНИЕ

01/07/2008 – 30/06/2012	Аспирантура по спец. Молекулярная и клеточная биология	Институт молекулярной биологии НАН РА, Лаборатория геномики и иммуномики человека, Ереван, Армения	<i>Название диссертации:</i> “Окислительный стресс, лектиновый путь комплемента и aberrantный апоптоз при патогенезе ишемического инсульта” Рук.: д.б.н., проф. Бояджян А.С
01/09/2006 – 29/05/2008	Магистратура по спец. Биофизика	ЕГУ, Факультет Биофизики, Ереван, Армения	<i>Название диссертации:</i> “Патогенные иммунные комплексы при шизофрении” Рук.: д.б.н., проф. Бояджян А.С
01/09/2002 – 30/05/2006	Бакалавриат по спец. Биофизика	ЕГУ, Факультет Биофизики, Ереван, Армения	<i>Название диссертации:</i> “Исследование комплексов этидий бромид – Hoechst – ДНК” Рук.: д.б.н., проф. Варданян П.О.

ОПЫТ РАБОТЫ

01.01.2021 по наст. время	Консультант по НИОКР в области радиобиологии	Deutsches Elektronen-Synchrotron DESY, Цойтен, Германия
16/01/2019 – 15/07/2019	Постдокторский исследователь	Калифорнийский Университет Сан Франциско, Отделение неврологии, Медицинский центр по вопросам ветеранов, Сан Франциско, США
01/12/2015 по наст. время	Старший научный сотрудник	Институт молекулярной биологии НАН РА, Лаборатория геномики и иммуномики человека, Ереван, Армения
01/09/2015 по наст. время	Зам. директора	Институт молекулярной биологии НАН РА, Ереван, Армения
01/01/2017 по наст. время	Зав. лабораторией	Институт синхротронных исследований КЕНДЛ, Лаборатория экспериментальной биологии, Ереван, Армения
02/03/2015 по наст. время	Старший научный сотрудник	Институт синхротронных исследований КЕНДЛ, Лаборатория экспериментальной биологии, Ереван, Армения
01/09/2015 по наст. время	Лектор	Российско-Армянский Университет, Ереван, Армения
01/07/2012 – 30/11/2015	Постдокторский исследователь	Институт молекулярной биологии НАН РА, Лаборатория геномики и иммуномики человека, Ереван, Армения
03/07/2006 – 30/06/2012	Младший научный сотрудник	Институт молекулярной биологии НАН РА, Лаборатория геномики и иммуномики человека, Ереван, Армения
01/09/2013 – 31/06/2015	Лектор	Международный научно-образовательный центр НАН РА, Ереван, Армения
09/03/2011 – 30/06/2015	Ученый секретарь	Национальная академия наук, Отделение естественных наук, Ереван, Армения
01/09/2010 – 31/12/2012	Младший научный сотрудник	ЕГУ, Факультет физики, Отделение молекулярной физики, Ереван, Армения

ГРАНТЫ

01.10.2020-30.09.2023	“Грант для укрепления новых лабораторий” (20TTCG-1F003). Комитет по науке МОНКС РА “Нейрональные изменения в головном мозгу крыс, вызванные ультракороткими импульсами электронных пучков”
01.07.2019 – 30.06.2021	“Грант для фундаментальных исследований 2019-2021” (№ 19-14-00151). Российский фонд по науке: “Молекулярные и клеточные эффекты облучения ультракороткими импульсами”
01.09.2019 – 31.08.2021	“Грант для молодых ученых 2019-2021” (19YR-1F045). Комитет по науке МОНКС РА: “Механизмы синаптической динамики при ишемическом инсульте у крыс <i>in vivo</i> ”
16/01/2019 – 15/07/2019	Стипендия Fulbright (6 месяцев) “Шиффовы основания аминокислот как потенциальные нейропротекторы при инсульте
19/10/2017 – 18/10/2021	EU COST Action CA16225 “Realising the therapeutic potential of novel cardioprotective therapies (EU-CARDIOPROTECTION)”, MC Observer / Представитель из Армении
02/10/2018	2018 Addgene-Seeding Labs Plasmid Grant
17/06/2017 – 21/07/2017	Travel Grant для участия в конгрессе EAACI Congress 2017, 17-21 июня, Хельсинки, Финляндия
12/06/2017 – 15/06/2017	“Travel grant for participation in Brokerage Events related to Horizon2020 as well as in Preparatory Meetings for the development of concrete project proposals for selected thematic calls within H2020” “Mediterranean Neuroscience 2017 conference and brokerage event, St. Julian’s, Мальта, 12-15 Июня, 2017
30/06/2017 – 31/06/2017	Horizon 2020- Project “EaP PLUS” Travel Grant for the participation at the Conference “Sharing

	experiences from Association to H2020”, 30-31 Мая, 2017, Кишинев, Молдова
01/07/2017 – 30/06/2019	Bilateral grant for German-Armenian R&D projects and sustainable, institutional partnerships (N16GE-040). German BMBF and State Committee of Science 32000 €
19/12/2016 – 18/12/2018	“Грант для молодых ученых 2016-2018” (16YR-1F011). Комитет по науке МОНКС РА: “Паттерн распознающие молекулы лектинового каскада комплемента при ишемическом инсульте”
10/06/2016	“Грант для публикации книги молодыми учеными”. Young Scientists Support Program: “Основы протеомики” на Армянском языке
29/08/2015	“Грант для приобретения научных приборов и реагентов”. Young Scientists Support Program: “Полиморфизмы в генах COLEC10 и COLEC11 при ишемическом инсульте”
02/07/2015 – 03/07/2015	EU Travel grant for participation of EaP/CA countries in brokerage events, Рига, Латвия, 2-3 Июля, 2015
26/02/2015	EU Travel grant for participation in brokerage event on Climate Change, Energy and Health, in framework of FP7 IncoNet EaP project (STI International Cooperation Network for Eastern Partnership Countries), Киев, Украина
15/08/2014 – 16/10/2014	Стипендия фонда Augustinus Foundation для исследовательских работ в Отделении биомедицины Университета Орхуса. “Паттерн распознающие молекулы при ишемическом инсульте”
21/05/2013 – 20/05/2017	European Project SYRA3 COST Action TD1205 “Innovative methods in radiotherapy and radiosurgery using synchrotron radiation”, MC Observer / Представитель из Армении
01/10/2013 – 30/09/2015	“Грант для молодых ученых 2013-2015”. Комитет по науке МОНКС РА: “Регуляторы лектинового каскада комплемента при ишемическом инсульте и шизофрении у человека”
01/07/2013 – 30/06/2014	Грант от “Young Scientists Support Program”. NFSAT, YSSP, CRDF. YSSP-13-19: “Генетика лектинового пути комплемента при ишемическом инсульте у человека”
01/04/2011 – 31/03/2012	“Грант для аспирантов 2011”. Комитет по науке МОНКС РА: “Адаптивные механизмы при остром ишемическом инсульте”
01/01/2011 – 31/12/2011	Грант “Graduate Research Assistance and Support Program (GRASP-3)”. NFSAT, NAS RA, CRDF. ECSP-10-04_GRSP: “Молекулярные механизмы повреждения белков и ДНК при остром ишемическом инсульте”
01/09/2008 – 31/08/2009	Грант для аспирантских исследований “Friendship”. Armenian charitable foundation “Development of Education, Science and Public Health”
25/07/2007 – 18/09/2007	Грант для участия в программе “DESY Summer Student Program -2007” (2 месяца), Гамбург, Германия
НАГРАДЫ	
06/10/2018	ARPA Institute (US) Annual Invention Competition Award for the invention “Натуральные вещества против старения”
21/06/2017	Награда за лучший абстракт на конгрессе EAACI Congress 2017, 17-21 Июня, Хельсинки, Финляндия
13/06/2017	Награда от Mediterranean Neuroscience Society как лучший молодой ученый на конференции “Mediterranean Neuroscience 2017 conference and brokerage event, 12-15 Июня, Сан-Джулиан, Мальта
16/12/2013	Награда за лучший научный проект “Улитки как натуральные вещества против старения”. Young Scientists Support Program and Министерства по делам спорта и молодежи
28/06/2013	Награда за лучший устный доклад на Конференции молодых ученых “New Aspects in Molecular Biotechnology and Biochemistry”, Ереван, Армения
31/03/2008	Награда за лучший устный доклад на Конференции молодых ученых “Perspectives for Development of Molecular and Cellular Biology”, Ереван, Армения
КОНФЕРЕНЦИИ	
24/11/2020-25/11/2020	Virtual PITZ Collaboration Meeting, 24-25 Ноября, 2020, Berlin (DESY Zeuthen), Germany (приглашенный доклад)
22/06/2020 – 25/06/2020	International Conference on Biomedical Imaging at PETRA III and PETRA IV - new opportunities for research and industry. 22-25 Июня, 2020, Гамбург (DESY), Германия (приглашенный доклад)
07/07/2018 – 11/07/2018	11 th FENS Forum of Neuroscience, Берлин, Германия (стендовый доклад)
02/07/2018 – 04/07/2018	9 th International Conference on Optics, Photonics and Lasers, Берлин, Германия (устный доклад)
12/10/2017	VERITAS Final Conference: Structural development of the third cycle based on Salzburg Principles, Ереван, Армения (устный доклад)
26/09/2017 – 01/10/2017	TERCA Workshop - 2017, Росток, Германия (устный доклад)
04/07/2017 – 07/07/2017	International Workshop “Ultrafast Beams and Applications” UBA 2017, Ереван, Армения (устный доклад)
17/06/2017 – 21/06/2017	EAACI Congress 2017, Хельсинки, Финляндия (стендовый доклад)
12/06/2017 – 15/06/2017	“6th Conference of the Mediterranean Neuroscience Society”, Сан-Джулиан, Мальта (стендовый доклад)
30/05/2017 – 31/05/2017	Horizon 2020 “EaP PLUS” Project Conference on “Sharing experiences from Association to H2020”, Кишинев, Молдова (Observer)
24/05/2017 – 26/05/2017	26th European Stroke Conference (ESC 2017), Berlin, Germany (Poster presentation)
18/04/2017 – 20/04/2017	H2020 Twinning Info day and Individual consultations for project submission, Yerevan, Armenia (наблюдатель)

04/04/2017 – 05/04/2017 13/10/2016 – 14/10/2016 18/03/2015 – 20/03/2015 02/10/2014 – 03/10/2014	“Innovative Methods in Radiotherapy and Radiosurgery Using Synchrotron Radiation” TD1205 eCOST action meetings (Гренобль, Франция / Лунд, Швеция / Афины, Греция / Берн, Швейцария) (наблюдатель)
10/11/2016 – 11/11/2016	H2020 Association Conference and Training Seminar, Ереван, Армения (наблюдатель)
21/09/2016 – 23/09/2016	PanArmenian Scientific Conference, Ереван, Армения
26/02/2015	Workshop on the Enterprise Europe Network in the framework of “STI International Cooperation Network for Eastern Partnership”, Киев, Украина
27/06/2013 – 28/06/2013	Конференция молодых ученых “New Aspects in Molecular Biotechnology and Biochemistry”, Ереван, Армения (устный доклад)
03/10/2012	FP7 NCPs Meeting for People Programme Training of EID-IDP, Брюссель, Бельгия
04/10/2012	13th meeting of the FP7 NCPs for the People Programme, Брюссель, Бельгия
26/09/2012 – 29/09/2012	Международная конференция молодых ученых “Perspectives for Development of Molecular & Cellular Biology-3”, Ереван, Армения (устный доклад)
01/10/2010 – 05/10/2010	Международная конференция “Prospects of Haematology and Transfusiology Development”, Ереван, Армения (устный доклад)
01/10/2010 – 02/10/2010	Конференция молодых ученых “Contribution of Young Scientists to Biotechnology”, Ереван, Армения (устный доклад)
10/11/2010 – 12/11/2010	Международная конференция молодых ученых “Perspectives for Development of Molecular & Cellular Biology-2”, Ереван, Армения (устный доклад)
15/10/2009 – 17/10/2009	Международная конференция “Biotechnology and Health-3, Ереван, Армения (устный доклад)
30/03/2008 – 31/03/2008	Конференция молодых ученых “Perspectives for Development of Molecular and Cellular Biology”, Ереван, Армения (устный доклад)
МЕЖДУНАРОДНЫЕ КУРСЫ	
26/02/2021 – 27/02/2021	UNDP online training on “Top skills on negotiation” and “Public speaking skills”, Ереван, Армения
17/10/2019 – 19/10/2019	“UNDP Leadership school for women scientists”, Цахкадзор, Армения
25/05/2015 – 29/05/2015	Международная школа молодых ученых “Molecular and Cellular Bases of Host-Microbes Interactions-4: Immunogenomics”, Ереван, Армения
26/05/2014 – 08/05/2014	Международная школа молодых ученых “Molecular and Cellular Bases of Host-Microbes Interactions: Genomics and Sequencing”, Ереван, Армения
24/02/2013 – 27/03/2013	HERCULES School on Using Synchrotron Radiation Facilities, Гренобль, Франция
26/05/2012 – 28/05/2012	“UNDP Leadership school for women scientists”, Цахкадзор, Армения
20/02/2011 – 26/02/2011	Международная школа молодых ученых “Molecular and Cellular Bases of Host-Microbes Interactions-4: Immunogenomics”, Ереван, Армения
03/10/2011 – 07/10/2011	Курс лекций “Molecular and Immunological Bases of Host-Microbes Interactions”, Ереван, Армения
27/08/2010 – 02/09/2010	FEBS Advanced Practical Course “Techniques in Free Radical Biology”, Дебрецен, Венгрия
19/07/2008 – 02/08/2008	“ZIBI International Summer School 2008”, Берлин, Германия
20/07/2008 – 26/07/2008	“Pathogen-Host Interplay” FEBS International Summer School, Берлин-Потсдам, Германия
25/07/2007 – 18/09/2007	“DESY Summer Student Program 2007”, supervisor dr. Matthew Groves, EMBL, Гамбург, Германия
НАУЧНЫЕ КОМАНДИРОВКИ ДЛЯ ИССЛЕДОВАТЕЛЬСКИХ РАБОТ	
03/09/2018 – 09/10/2018 (Росток, Германия)	Университет Росток, Отделение радиотерапии, Медицинский центр. Название работы - “Эффект новых радиопротекторных медных комплексов как противоопухолевые агенты”.
17/08/2014 – 15/10/2014 (Орхус, Ольборг, Дания)	Университет Орхуса, Университет Ольборга. Название работы - “Паттерн распознающие молекулы при ишемическом инсульте”.
25/07/2007 – 26/09/2007 (Hamburg, Germany)	EMBL – European Molecular Biology Laboratory. Название работы - “Описание поведения белков при экспериментах по кристаллизации белков”.
РЕДАКЦИОННАЯ ДЕЯТЕЛЬНОСТЬ	
Редактор специального выпуска “ Women in radiobiology” журнала “International Journal of Radiation Biology”	
Reviewer in several journals, including Experimental Neurology, GLIA, Cytokine, JCBFM, Journal of Biophotonics, Biomedical Optics Express, Journal of Neuroinflammation, Allergy, Food and Function, etc.	
Member of editorial boards of Journal of Biology and Medicine (Peertechz), Clinical Neurology and Neuroscience (Science Publishing Group), Virology & Immunology Journal (MedWin Publishers), Asian Journal of Cardiology Research (SCIENCEDOMAIN international (SDI))	
EVALUATOR ACTIVITY	
2020-present	Expert Evaluator/Project Peer Reviewer of the Science Fund of the Republic of Serbia.
2020-present	Expert Evaluator in the database of MADRI+D and in relation to the work of evaluation of the scientific-technical proposals of the CONEX-Plus Programme of Universidad Carlos III de Madrid (UC3M)
2018-present	67TCyprus Research Promotion Foundation Expert for evaluation of 67T proposals and management of funded projects of RESTART 2016-2020 Programmes for Technological Development and Innovation (Expert 63TIRID ID: 8062863T)
2017-present	EU independent expert (Expert ID: EX2016D290706)
MEMBERSHIP	
2016-present	Federation of European Neuroscience Societies (ID: Full Member

	AM28885)	
2013-present	EAACI - The European Academy of Allergy and Clinical Immunology (No:14628)	Junior Member
2008-present	FEBS – Federation of European Biochemistry Society	Member of the Armenian Association of Biochemists
2011-present	Armenian Association of Molecular and Cellular Biology and Immunology	Full Member
2007-present	Biotechnological Association of Armenia	Full Member
ПРЕПОДАВАНИЕ И МЕНТОРСТВО		
01/09/2015 – present	Лектор по дисциплине “Белковая инженерия и нанобиотехнология”, РАУ	
01/09/2013 – 31/05/2015	Лектор по дисциплине “Белковая инженерия”, Международный научно-исследовательский центр НАН РА	
01/07/2016	Научный руководитель одной диссертации по соисканию степени кандидата наук	
25/05/2012; 22/05/2015	Научный руководитель двух магистерских диссертаций	
ОРГАНИЗАЦИЯ КОНФЕРЕНЦИЙ		
28/11/2017 – 30/11/2017	NATO Advanced Research International Workshop “BRITE (Biomarkers of Radiation In The Environment): Robust tools for risk assessment”, Ереван, Армения	
26/09/2016 – 28/09/2016	Международная конференция молодых ученых "New Trends In Life Science", Ереван, Армения	
10/11/2010 – 12/11/2010	Международная конференция молодых ученых "Perspectives for Development of Molecular & Cellular Biology-2", Ереван, Армения	
05/05/2008 – 06/05/2008	Международная конференция молодых ученых "Perspectives for Development of Molecular & Cellular Biology-1", Ереван, Армения	
Я З Ы К И		
<ul style="list-style-type: none"> ● Армянский – родной ● Русский – свободно ● Английский – свободно ● Немецкий – начинающий 		
ПУБЛИКАЦИИ		
Книги или главы в книгах – 4 Статьи в рецензируемых научных журналах – 42	Абстракты в рецензируемых научных журналах – 10	Абстракты в материалах рецензируемых конференций – 28
LIST OF PUBLICATIONS		
Books and book chapters		
<ol style="list-style-type: none"> 1. Mike Wood, Tom Cresswel, Carmel Mothersill, Gohar Tsakanova. Editors. NATO book: Biomarkers of Radiation In The Environment (BRITE). Springer. 2021. In print. 2. G.Tsakanova, E.Arakelova, A.Melkonyan. Proteomics (In Armenian). Publisher. Elen Print. 2018. 165 pp. 3. G.Tsakanova, A.Boyajyan. Protein engineering (In Armenian). Lecture notes. Publisher "Science" NAS RA, Armenia. 2015. 50 pp. 4. Boyajyan A., Hovsepyan M., Arakelova E. & Tsakanova G. Neuroimmune alterations in diabetes: implications to molecular pathomechanisms of complications. In: Research on Diabetes II. iConcept Press Ltd., USA, 2014. 281-297. 		
Manuscripts in peer-reviewed scientific journals		
<ol style="list-style-type: none"> 5. Gohar Tsakanova, Zaven Karalyan, Elena Karalova, Lina Hakobyan, Liana Abroyan, Aida Aveisyan, Hranush Avagyan, Narek Nersisyan, Nelly Babayan, Elina Arakelova, Violetta Ayvazyan, Bagrat Grigoryan, Hakob Davtyan, Arsen Arakelyan. Low energy ultrashort-pulsed laser driven electron beam irradiation induced immune response in rats. International Journal of Radiation Oncology Biology Physics. 2021. To be published. 6. Gohar Tsakanova, Elina Arakelova, Violetta Ayvazyan, Zaven Karalyan, Bagrat Grigoryan, Zohrab Amirkhanyan, Hakob Davtyan, Arsen Arakelyan. The LD50 for low energy ultrashort-pulsed laser driven electron beam whole body irradiation of Wistar rats. Radiation Research. 2021. Under review. 7. Gohar Tsakanova, Elina Arakelova, Violetta Ayvazyan, Vahan Tonoyan, Ani Stepanyan, Arsen Arakelyan, Guido Hildebrandt and Elisabeth Schültke. Radioenhancement potential of Schiff base derived copper (II) complexes against lung carcinoma in vitro. PLOS ONE. 2021. Under review. 8. Anna Ayvazyan, Stepan Tatikyan, Gohar Tsakanova. Two-photon microscopy and the fields of its application (In Armenian). In the World of Science. 2021. 1: In print. 9. Carlos Sanchez-Cano, Ramon A. Puebla, John M. Abendroth, et al. X-Ray-Based Techniques to Study the Nano-Bio Interface. Review. ACS Nano. 2021. In print. 10. G.V. Tsakanova, L.A. Matevossian, E.A. Arakelova, V.A. Ayvazyan, A.E. Ayvazyan, S.Sh. Tatikyan, A.S. Yeremyan, A.A. Arakelyan. Qualitative and quantitative assessment of oxidative stress in human living erythrocytes using two-photon microscopy imaging technique. Biological Journal of Armenia. 2021. In print. 11. Tsakanova G, Ayvazyan V, Arakelova E, Ayvazyan A, Tatikyan S, Djavadovna L, Babayan N, Grigoryan R, Sargsyan N, Arakelyan A. Helix pomatia albumen gland water soluble protein extract as powerful antiaging agent. Experimental Gerontology. 2021: 111244. doi.org/10.1016/j.exger.2021.111244. 12. Nelly Babayan, Natalia Vorobyeva, Bagrat Grigoryan, Anna Grekhova, Margarita Pustovalova, Sofia Rodneva, Yuriy Fedotov, Gohar Tsakanova, Rouben Aroutiounian, Andreyan Osipov. Low Repair Capacity of DNA Double-Strand Breaks Induced by Laser-Driven Ultrashort Electron Beams in HeLa Cancer Cells. International Journal of Molecular Sciences. 2020. 21(24): 9488. 13. Gohar Tsakanova, Elina Arakelova, Violetta Ayvazyan, Anna Ayvazyan, Stepan Tatikyan, Ruzanna Grigoryan, Natalya Sargsyan, Arsen Arakelyan. Two-photon imaging of oxidative stress in living erythrocytes as a measure for human aging. 		

Biomedical Optics Express. 2020; 11(7): 3444-3454. doi.org/10.1364/BOE.393898.

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