

CURRICULUM VITAE

Образование (в хронологическом порядке):	
Промежуток	Полученная степень, учреждение
2013	Кандидат биологических наук Название диссертационной работы: “Молекулярные генетические маркеры нарушений иммунной системы при шизофрении”, Руководитель: проф. Анна Бояджян, д.б.н.
2008-2012	Аспирантура Институт молекулярной биологии Национальной академии наук Республики Армения (НАН РА)
2005-2007	Магистратура (диплом с отличием) Факультет физики, Ереванский государственный университет (ЕГУ)
2001-2005	Бакалавриат (диплом с отличием) Факультет физики, Ереванский государственный университет (ЕГУ)
Профессиональный опыт (в хронологическом порядке):	
Промежуток	Должность, Организация
2019 -	Приглашенный преподаватель Курс F100 уровня – Введение в бионауки (курс общего образования для студентов) Американский университет Армении (AUA) http://aua.am/accreditation-affiliations/
2018 -	Заведующая кафедрой Биоинженерия, биоинформатика и молекулярная биология Институт биомедицины и фармации Российско-Армянский (славянский) университет РА (http://ibmp.rau.am/rus/122/390)

01.12.2017- 30.06.2018	Заведующая кафедрой Медицинская биохимия и биотехнология Институт математики и высших технологий Российско-Армянский (славянский) университет РА (www.rau.am)
2017-	Старший преподаватель (неполная занятость) Геномика и протеомика, генетика, мировые генетические ресурсы, геномная инженерия Российско-Армянский (славянский) университет РА (www.rau.am)
2015-2016	Ассистент (по совместительству) Курс F100 уровня – Введение в биологию (курс общего образования для студентов) Американский университет Армении (AUA) http://aua.am/accreditation-affiliations/)
2019 -	Старший научный сотрудник Лаборатория геномики и иммунологии человека (ранее: Лаборатория макромолекулярных комплексов) Институт молекулярной биологии НАН РА
2013 - 2018	Исследователь Лаборатория геномики и иммунологии человека (ранее: Лаборатория макромолекулярных комплексов) Институт молекулярной биологии НАН РА
2013 -	Преподаватель Магистерский курс “Молекулярная медицина”, “Функциональная геномика” Кафедра Молекулярной и клеточной биологии Международный научно-образовательный центр НАН РА
2012 - 2013	Эксперт Лаборатория микотоксинов и тестирования ГМО Институт молекулярной биологии НАН РА
2009 - 2012	Младший научный сотрудник Лаборатория макромолекулярных комплексов Институт молекулярной биологии НАН РА
2007 - 2008	Старший лаборант Лаборатория физики твердого тела Институт физических исследований НАН РА
2006 - 2007	Лаборант Отделение молекулярной физики Факультет физики Ереванского государственного университета (ЕГУ)

Членство:	
European Academy of Allergy and Clinical Immunology (EAACI) International Brain Research Organization (IBRO) International Complement Society (ICS) European Cytokine Society (ECS) European Federation of Immunogenetics (EFI) Molecular and Cellular Cognition Society (MCCS) Armenian Association of Biochemists affiliated to Federation of the European Biochemical Societies (FEBS) Biotechnological Association of Armenia Young Scientists' Council of Institute of Molecular Biology NAS RA Armenian Association for Molecular and Cellular Biology and Immunology (<i>executive secretary</i>) affiliated to the International Union of Immunological Societies (IUIS) and European Federation of Immunological Societies (EFIS)	
Исследовательский опыт и навыки:	
Лабораторные навыки: ELISA, Western blot, PCR-SSP, qRT-PCR, calorimetry, circular dichroism, DNA/RNA extraction, gel-electrophoresis, UV-spectrophotometry, Sanger sequencing, Mass Array	
Компьютерные навыки: MS Office, CorelDraw, Adobe Photoshop, SPSS, GraphPrism	
Языки: Русский, Английский	
Академические стипендии и визиты:	
Дата	Место
06.08.2017-27.08.2017	Университет Палацкого, Оломоуц, Чехия
01.09.2009-02.02.2010	Университет Палацкого, Оломоуц, Чехия
Награды:	
2019	<i>Instrumental Access 2019 competition by Seeding Labs</i>
2018	<i>“The most productive young scientist-2017”, Awarded by the State Committee of Science, Ministry of Education of the Republic of Armenia</i>
2017	<i>Winner of the competition “The most productive young scientist-2016”, Awarded by the State Committee of Science, Ministry of Education of the Republic of Armenia</i>
2017	<i>Travel Grant to attend 9th EFIS-EJI South Eastern European Immunology School (SEEIS2017)</i>
2016	<i>“The most productive young scientist-2015”, Awarded by the State Committee of Science, Ministry of Education of the Republic of Armenia</i>
2015	<i>Award for the best presentation at section “Molecular medicine” at the Fifth international scientific-practical conference “Most up-to-date problems of biology, nanotechnology and medicine”, Awarded by the Scientists Committee, Russian Federation</i>
2013	<i>Winner of the Young Scientists Competition “Best Scientific Work 2013”, Section of Biology, Awarded by the National Academy of Sciences of the Republic of Armenia, the World Armenian Congress, the Union of Armenians in Russia, and Ministry of Diaspora of the RA</i>
2012	<i>Award for publications with the highest citations in international peer-reviewed journals, Awarded by the "Tashir" Foundation and "Young Scientists</i>

	<i>Support" Initiative, Armenia</i>
2011	Award for impact factor publications , Awarded by "Gagik Tsarukyan" Foundation and "Young Scientists Support" Initiative, Armenia
Кураторство студентов: Руководитель семи дипломных работ	
Дополнительная деятельность:	
Дополнительная активность:	
2015-to date	Reviewer of the World Journal of Biological Psychiatry
2015-to date	Editorial Board Member of the Journal of Clinical Immunology and Immunotherapy
2015-to date	Editorial Board member of the Scientific Journal of Genetics and Gene Therapy
2015-to date	Reviewer of the Neuropsychiatric Disease and Treatment
2015-to date	Reviewer of the Research and reports in Biochemistry
2015-to date	Reviewer of the Neurological Disorders & Epilepsy
2015-to date	Reviewer of the Advances in Genomics and Genetics
2015-to date	Reviewer of the International Journal of Interferon, Cytokine and Mediator Research
2015	Abstract Reviewer of the Fourth International Congress of Immunology
2013-to date	Expert of the State Committee of Science of the Republic of Armenia
Стипендии:	
Дата	
2017-2019	<i>Targeted research project “Genetic mapping of Armenian pathogenome”, State Committee of Science, Ministry of Education and Science, Republic of Armenia</i>
2017	<i>Educational grant award, provided by the World Federation of Societies of Biological Psychiatry (WFSBP) to attend special Educational Section at the World congress of Biological Psychiatry, June 18-22, 2017</i>
2015	<i>Educational grant award, provided by the World Federation of Societies of Biological Psychiatry (WFSBP) to attend special Educational Section at the World congress of Biological Psychiatry, June 14-18, 2015</i>
2015	<i>Travel grant, IncoNet EaP project, FP7, attendance to the Horizon 2020 “Health, Demographic Change & Wellbeing” Health Partnering Day and Open Info Day, Brussels, September 17-18, 2015</i>
2015	<i>Travel grant for participation to the “12th World congress of Biological Psychiatry”, awarded by the “Young Scientists’ Support Program”</i>
2013-2016	<i>“Schiff base cyclic amino acid derivatives for chemoprotection against damaging action of mycotoxins”, Grant of the International Science and Technology Center, ISTC (#A-2116), project participant</i>
2013-2015	<i>Grant of “Study of synaptic plasticity regulating transcription factors in schizophrenia”, competition of the State Committee of Science (SCS MES RA) (#13-1F126), project participant</i>
2013	<i>Travel grant to attend International Congress of Immunology, Milan, Italy, awarded by the International Union for Immunological Societies (IUIS)-Gates</i>

	<i>Foundation</i>
2013	<i>Grant of “Searching for schizophrenia biomarkers among the genes of synaptic proteins” of the Armenian National Science and Education Fund (ANSEF), New York, USA, principal investigator</i>
2012	<i>Grant of “Travel Support Program-2011” to participate in “Genomic disorders: genomics of rare diseases” conference, provided by the National Foundation of Science and Advanced Technologies (NFSAT) (TSP 09/2012)</i>
2012	<i>Grant of the “Materials and Equipment Purchase Support-2012” program, competition of the National Foundation of Science and Advanced Technologies (NFSAT) and Armenian International Woman Association (AIWA), principal investigator</i>
2011-2013	<i>Grant of “Complexin-2 and annexin-a5 as potential biomarkers of cognitive dysfunction in psychiatric disorders: genetic polymorphisms, expression levels”, competition of the State Committee of Science (SCS MES RA) (#11-1f151), project participant</i>
2011	<i>Travel grant to participate in “FEBS Practical course on gene expression regulation and data integration” funded by FEBS, August 27 – September 3, 2011, Debrecen, Hungary</i>
2010	<i>Third prize at the Conference “Contribution of Young Scientists to Biotechnology”, 1-2 October, 2010</i>
2010	<i>Grant of “Immunogenetics of schizophrenia: single nucleotide polymorphisms of immune response related genes”, Early Careers Support Program (ECSP), competition of the National Foundation of Science and Advanced Technologies (NFSAT), the U.S. Civilian Research & Development Foundation and the State Committee of Science (SCS MES RA) (ECSP-09-70), principal investigator</i>
2009	<i>Grant of “Study of possible involvement of genetic polymorphisms of C-reactive protein and C1q component of the complement in pathogenesis of schizophrenia”, In-coming scholarship of the International Visegrad Fund (IVF) (#50910830), principal investigator</i>
Конференции и семинары:	
November 6-8, 2017	Second Pan-Armenian Scientific Forum, Yerevan, Armenia (oral presentation)
November 1-4, 2017	International scientific-practical conference “Genetics as a fundamental basis for innovations in medicine and selection”, Rostov-on-Don, Russia (oral presentation in section “Clinical medicine”)
November 5, 2017	International workshop “Boyajyan readings”, Yerevan, Armenia
October 11-13, 2017	Scientific Workshop on “DNA sequencing technologies and their application in practice”, Yerevan, Armenia
October 10-12, 2017	Second international conference “Women achievements in biological sciences”, Yerevan, Armenia (oral presentation)
September 8-11, 2017	EJI-EFIS summer school (SEEIS2017), Lviv, Ukraine (poster presentation and short talk)
June 18-22, 2017	13 th World Congress of Biological Psychiatry, Copenhagen, Denmark (poster presentation)
October 23, 2015	“SUAFRI Agri-food brokerage event and technology transfer” workshop, Yerevan, Armenia
1-3 October, 2015	Fifth international scientific-practical conference “Most up-to-date problems of biology, nanotechnology and medicine”, Rostov-on-Don, Russian Federation

	(oral presentation)
17-18 September, 2015	Horizon 2020 “Health, Demographic Change & Wellbeing” Health Partnering Day 2015 and Open Info Day
14-18 June, 2015	12 th World Congress of Biological Psychiatry, Athens, Greece (oral presentation)
3-5 October, 2013	Fifth International scientific conference “Actual problems of biology, nanotechnology and medicine”, Rostov-on-Don, Russia, (oral presentation)
21-22 September, 2013	International Symposium on Neuroscience and Biological Psychiatry “Stress and Behavior”, Yerevan, Armenia, (oral presentation)
29-31 August, 2013	World Psychiatric Association Thematic Conference “Mental Health and Mental Illness: Focusing on Eurasia”, Yerevan, Armenia, (oral presentation)
22-27 August, 2013	15 th International Congress of Immunology, Milan, Italy
27-28 June, 2013	Young scientists' conference “New aspects in molecular biotechnology and biochemistry”, Yerevan, Armenia (oral presentation)
26-29 September, 2012	International young scientists' conference “Perspectives for development of molecular and cellular biology-3”, Yerevan, Armenia, (oral presentation)
12-15 September, 2012	5 th Special conference of the International Society for Neurochemistry “Synapses and dendritic spines in health and disease”, Buenos Aires, Argentina
11-14, September, 2012	10 th Joint Meeting of International Cytokine Society and International Society for Interferon and Cytokine Research “Cytokines-2012”, Geneva, Switzerland
25-29 June, 2012	International conference on the postgenomic technology for biomedicine (PTB)-2012, Novosibirsk, Russia
23-24 June, 2012	Young scientists' school “Modern high-throughput technologies in nucleic acid sequencing”, Novosibirsk, Russia
April 30-May 1, 2012	“Capacity building innovation and technology transfer” workshop, organized by the Commercial law development program (USA) and the National Foundation of Science and Advanced Technologies (NFSAT), Yerevan, Armenia
21-24 March, 2012	Genomic disorders: the genomics of rare diseases 2012, Hinxton, Cambridge, UK
18-20 November, 2011	First EFI training and educational meeting in Armenia, Yerevan, Armenia
3-7 October, 2011	Course on “Molecular and immunological bases of host-microbe interactions”, Yerevan, Armenia
27 August - 4 September, 2011	FEBS Practical course on gene expression regulation and data integration, Debrecen, Hungary
4-7 May, 2011	25th European immunogenetics and histocompatibility conference, Prague, Czech Republic
20-26 February, 2011	FEBS advanced lecture course “Trends in genetics: Genomic instability and pathways of response”, Yerevan, Armenia
28 November - 3 December, 2010	IV International young scientists school on molecular genetics “Genomics and cell biology”, Moscow-Zvenigorod, Russia

10-12 November, 2010	International young scientists' conference "Perspectives for development of molecular and cellular biology II", Yerevan, Armenia
1-2 October, 2010	Conference of Biotechnological Armenian Association "Contribution of young scientists to biotechnology", Yerevan, Armenia, (oral presentation)
15-18 May, 2010	24th Immunogenetics and histocompatibility conference, Florence, Italy
13-14 April, 2010	International congress of young scientists, Yerevan State Medical University, Yerevan, Armenia, (oral presentation)
25-27 November, 2009	"Bioinformatics in genomic and proteomic data" workshop, Brno, Czech Republic
26-28 November, 2009	XII Czech conference of DNA diagnostics, Olomouc, Czech Republic

Публикации:

1. Zakharyan R., Arakelyan A. NGF in psychiatric disorders: update on current findings. Chapter in the "Advanced in Medicine and Biology" (Edited by L.V. Berhardt), Nova Science Publishers 2018, USA, v. 127, pp.85-104. ISBN: 978-1-53613-204-5.

2. Stepanyan A., Zakharyan R., Simonyan A., Tsakanova G., Arakelyan A. Involvement of polymorphisms of the nerve growth factor and its receptor encoding genes in the etiopathogenesis of ischemic stroke. **BMC Medical Genetics** 2018; 19(1): 33.

3. Stepanyan A., Tsakanova G., Zakharyan R., Simonyan A., Arakelyan A. Nerve growth factor and its receptor encoding genes in ischemic stroke. **FEBS Journal** 2017; 284:241.doi:10.1111/febs.14174

4. Zakharyan R., Arakelyan A. Sequencing of neurotrophic tyrosine receptor kinase 1 gene region in Armenian schizophrenia patients. Published online: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/911>

5. Atshemyan S., Zakharyan R., Arakelyan A. The role of complexin family single nucleotide polymorphisms in schizophrenia. Published online: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/776>

6. Atshemyan S., Zakharyan R., Arakelyan A. Collapsin-response mediator Protein-5 gene RS13017554 polymorphism and schizophrenia. Published online: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/774>

7. Atshemyan S., Arakelyan A., Zakharyan R. No association between collapsin response mediator protein gene variations and schizophrenia. **European Neuropsychopharmacology** 2017; 27: S13-S14.

8. Stepanyan A., Zakharyan R., Simonyan A., Soghosyan A., Tsakanova G., Arakelyan A. Genetic variability of complexin-2 as a risk factor for ischemic stroke. **Cerebrovascular diseases** 2018; 45: 426.
9. Захарян Р.В., Телумян Е.Г., Геворкян А.П., Аракелян А.А. Отсутствие ассоциации полиморфизма rs6339 гена нейротрофинового рецептора тирозинкиназы типа 1 с шизофренией у армянской популяции. **Медицинская генетика** 2017, 16(4): 40-43.
10. Malakyan M., Ayvazyan V., Manukyan G., Hovsepyan L., Arakelova E., Avetyan D., Ghazaryan H., Melkonyan A., Zakharyan R., Arakelyan A. Effects of Schiff base aromatic amino acid derivatives on antioxidant and immune system disturbances in a rat model of aflatoxin B1 induced experimental mycotoxicosis. **F1000Research** 2017. 6:1413, doi: 10.12688/f1000research.11756.1.
11. Zakharyan R., Chavushyan A., Hayrapetyan V., Hovhannisyan A., Khachatryan Z., Yepiskoposyan L., Arakelyan A. Analysis of genetic variants associated with antipsychotic treatment efficacy in healthy Armenian individuals. Abstracts of the 30th ECNP congress, **European Neuropsychopharmacology** 2017; 27, S656.
12. Zakharyan R., Kocourkova L., Ghazaryan H., Zizkova V., Chavushyan A., Arakelyan A., Petrek M. Profile of genetic polymorphisms associated with antipsychotic drug response in patients with schizophrenia. Abstract book of the International conference “**Genetics as a fundamental basis of innovations in medicine and selection**”, 2017; p.112.
13. Stepanyan A., Tsakanova G., Zakharyan R., Arakelyan A., Involvement of polymorphisms of the nerve growth factor and its receptor encoding genes in the etiopathogenesis of ischemic stroke, 'Cerebrovascular Diseases 2017; 43 (Suppl 1): I-II, p.41.
14. Hayrapetyan V., Karapetyan L., Wyman R., Zakharyan R., Arakelyan A. Cystatin 3 gene rs3827143 polymorphism as a protective factor for schizophrenia. Proceedings of the 11th Student conference of RAU, pp.159-165.
15. Atshemyan S., Chavushyan A., Berberian N., Sahakyan A., Zakharyan R., Arakelyan A. Characterization of BRCA1/2 mutations in patients with family history of breast cancer in Armenia. **F1000Research** 2017. 6:29, 10.12688/f1000research.10434.1.
16. Zakharyan R., Chavushyan A., Hayrapetyan V., Hovhannisyan A., Khachatryan Z., Yepiskoposyan L., Arakelyan A. Analysis of genetic variants associated with antipsychotic treatment efficacy in healthy Armenian individuals. **European Neuropsychopharmacology** 2017; 27, S656.

17. Stepanyan A., Tsakanova G., Zakharyan R., Simonyan A., Arakelyan A. Nerve growth factor and its receptor encoding genes in ischemic stroke. **FEBS Journal** 2017, 284, 241-241.
18. Malakyan M., Ayvazyan V., Manukyan G., Hovsepyan L., Arakelova E., Avetyan D., Ghazaryan H., Melkonyan A., Zakharyan R., Arakelyan A. Effects of Schiff base aromatic amino acid derivatives on antioxidant and immune system disturbances in a rat model of aflatoxin B1 induced experimental mycotoxicosis. **F1000Research** 2017. 6:1413, doi: 10.12688/f1000research.11756.1.
19. Zakharyan R., Kocourkova L., Ghazaryan H., Zizkova V., Chavushyan A., Arakelyan A., Petrek M. Profile of genetic polymorphisms associated with antipsychotic drug response in patients with schizophrenia. Proceedings of the International conference “**Genetics a fundamental basis of innovations in medicine and selection**”, 2-4 November, 2017, Rostov, Russia, p.112.
20. Atshemyan S., Chavushyan A., Berberian N., Sahakyan A., Zakharyan R., Arakelyan A. Characterization of BRCA1/2 mutations in patients with family history of breast cancer in Armenia. **F1000Research** 2017. 6:29, 10.12688/f1000research.10434.1.
21. Захарян Р.В., Телумян Е.Г., Геворкян А.П., Аракелян А.А. Отсутствие ассоциации полиморфизма rs6339 гена нейротрофинового рецептора тирозинкиназы типа 1 с шизофренией в армянской популяции. **Медицинская генетика** 2017; 16 (4):40-43.
22. Atshemyan S., Telumyan E., Arakelyan A., Zakharyan R. No association between collapsin response mediator protein gene variations and schizophrenia. **European Neuropsychopharmacology** 27, S13-S14.
23. Zakharyan R., Arakelyan A. Sequencing of neurotrophic tyrosine receptor kinase 1 gene region in Armenian schizophrenia patients. Abstracts of the **EFIS-EJI South Eastern European Immunology School (SEEIS2017)**, Lviv, Ukraine, September 8-11, 2017, p.37.
24. Zakharyan R., Arakelyan A. Sequencing of neurotrophic tyrosine receptor kinase 1 gene region in Armenian schizophrenia patients. Abstracts of the **13th World Congress of Biological Psychiatry**, Copenhagen, Denmark, June 18-22, 2017, online available at: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/911>
25. Atshemyan S. Zakharyan R., Arakelyan A. Collapsin-response mediator protein-5 gene rs13017554 polymorphism and schizophrenia. Abstracts of the **13th World Congress of Biological Psychiatry**, Copenhagen, Denmark, June 18-22, 2017, online available at: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/774>

26. Atshemyan S., Zakharyan R., Arakelyan A. The role of complexin family single nucleotide polymorphisms in schizophrenia. Abstracts of the **13th World Congress of Biological Psychiatry**, Copenhagen, Denmark, June 18-22, 2017, online available at: <http://www.wfsbp-congress.org/index.php?id=239#/details/abstract/776>
27. Zakharyan R., Atshemyan S., Telumyan E., Chavushyan A., Arakelyan A. Schizophrenia and contributory genetic combinations in Armenians. **European Neuropsychopharmacology** 2016, 26: S169.
28. Atshemyan S., Telumyan E., Arakelyan A., Zakharyan R. Association of complexin-4 gene variants with schizophrenia. **European Neuropsychopharmacology** 2016, 26: S189.
29. Ghazaryan H., Zakharyan R., Petrek M., Arakelyan A. Annexin-A11 expression and its single nucleotide polymorphism (SNP) in schizophrenia. **European Neuropsychopharmacology** 2016, 26: S178-S179.
30. Zakharyan R., Stepanyan A., Avetyan D., Atshemyan S., Ghazaryan H., Hovhannisyan L., Mkrtchyan G., Chavushyan A., Tadevosyan K., Arakelyan A. Genetic markers of predisposition to complex diseases in Armenian population. Abstracts of the **6th Biennial Meeting of the Human Variome Project Consortium**, p.36. poster# POS06
31. Martirosyan G., Lyangasova O., Zakharyan R., Mashkina E., Shkurat T., Arakelyan A. Epidemiological study on the prevalence of urogenital infections in Armenia and Russia. Proceedings of the International Young Scientists Conference “**New Trends in Life Sciences**”, published in: Biological Journal of Armenia 2016, LXVIII, p.93-97.
32. Ghazaryan H., Zakharyan R., Stepanyan A., Petrek M., Arakelyan A. Genetic variations of complement factors in schizophrenia. **Eur. J. Immunol.** 2016. 46 (Suppl. 1): 547-548, DOI: 10.1002/eji.201670200
33. Stepanyan A., Tsakanova G., Zakharyan R., Arakelyan A., Boyajyan A. Synaptic plasticity genes polymorphisms and ischemic stroke risk. **Cerebrovascular diseases** 2016, 41: 251, <https://doi.org/10.1159/000446380>
34. Dolgoplova A., Zakharyan R., Arakelyan A., Lyangasova O., Mashkina E., Shkurat T. Analysis of allelic variants associations of genes TLR2, TLR6 and TNF- α with newborn intrauterine infection. Abstracts of the International Young Scientists Conference “**New Trends in Life Sciences**”, p. 65-66.
35. Martirosyan G., Lyangasova O., Zakharyan R., Mashkina E., Shkurat T., Arakelyan A., Epidemiological study on the prevalence of urogenital infections in Armenia and Russia. “Biological Journal of Armenia”, V.LXVIII(Special Issue), 2016, p.93-97.

36. Karapetyan L., Atshemyan S., Zakharyan R., Arakelyan A. Predictive power of genetic combinations among inflammation and neuronal development regulators for schizophrenia. Abstracts of the International Young Scientists Conference “**New Trends in Life Sciences**”, p. 53-54.
37. Boyajyan A., Zakharyan R., Atshemyan S., Ghazaryan H. Chapter 5. “Biopsychology of schizophrenia: novel molecular genetic markers of cognitive dysfunction”. In: **Advances in Psychology Research** (Editor: A.M. Columbus), Nova Science Publishers Inc., USA, 2015, v. **110**, pp. 69-124. ISBN: 978-1-63482-629-7.
38. Boyajyan A.S., Atshemyan S.A., Zakharyan R.V. Association of schizophrenia with variations in genes encoding transcription factors. **Molecular Biology (Mosk.)** 2015, 49 (6):977-983.
39. Atshemyan S., Zakharyan R., Arakelyan A. No association of the complexin-3 gene polymorphism with schizophrenia. **Scientific Journal of Genetics and Gene Therapy** 2015, 1(1):027-029.
40. Boyajyan A, Zakharyan R., Atshemyan S, Chavushyan A, Mkrtchyan G. Schizophrenia-associated risk and protective variants of c-Fos encoding gene. **Recent Advances in DNA and Gene Sequencing** 2015 (PMID: 25706621). DOI: 10.2174/2352092209666150223113334.
41. Zakharyan R., Atshemyan S., Chavushyan A., Boyajyan A. Genetic variability of immune system, neuroplasticity, and apoptosis in schizophrenia. Materials of the Sixth International Scientific and Practical Conference “**Actual problems of biology, nanotechnology and medicine**”, Rostov-on-Don, Russian Federation, October 1-3, 2015, p. 132. <http://bionanomed.sfedu.ru/ru/sbornik>
42. Zakharyan R., Mkrtchyan G., Atshemyan S., Chavushyan A., Boyajyan A. Functional state of c-Fos, c-Jun, and Ier5 transcription factors in schizophrenia. Online abstracts of the **12th World congress of biological psychiatry**, Athens, Greece, June 14-18, 2015, <http://www.cpo-media.net/WFSBP/2015/Final/HTML/files/assets/basic-html/page-34.html>
43. Zakharyan R., Atshemyan S., Chavushyan A., Boyajyan A. Schizophrenia and variations in cognition-associated genes. Online abstracts of the **12th World congress of biological psychiatry**, Athens, Greece, June 14-18, 2015,
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