

CURRICULUM VITAE

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ОБРАЗОВАНИЕ

- 2011 – 2019 Институт молекулярной биологии НАН РА, к.б.н.
- 2005 – 2011 Факультет Медицинской Биокхимии Российско-Армянского (Славянского) университета, *специалист*

ОПЫТ РАБОТЫ

- с 2019 Институт молекулярной биологии НАН РА, *Научный сотрудник*
- 2013 – 2019 Институт молекулярной биологии НАН РА, *Младший научный сотрудник*
- 2017 – 2018 Кафедра патологической физиологии Факультета Медицины и стоматологии Университета Палацкого, Оломоуц, Чехия, *Научный сотрудник*
- 2011 – 2013 Институт молекулярной биологии НАН РА, *Старший лаборант*

СПЕЦИАЛИЗАЦИЯ

Молекулярная биология, медицинская биохимия

Круг научных интересов: Молекулярная биология, генетика, биохимия, имmunология

ПРЕПОДАВАТЕЛЬСКАЯ ДЕЯТЕЛЬНОСТЬ

- Руководитель одной магистрской работы
- с 2019 Российско-Армянский (Славянский) университет, *Преподаватель*
- 2019 – 2021 Школа "Усмунк" Российско-Армянского университета, *Учитель*
- 2016 – 2017 Школа «Айб», *Учитель*

ПОЛУЧЕННЫЕ ГРАНТЫ И УЧАСТИЕ В ФИНАНСИРУЕМЫХ ИССЛЕДОВАТЕЛЬСКИХ ПРОЕКТАХ

1. Travel grant for participation at the ECNP Workshop for Early Career Scientists in Europe, 5-8 March 2020, Nice, France
2. Short Term Conference and Travel Grants, Calouste Gulbenkian Foundation, 2019
3. Travel grant for participation at the WASAD Congress 2019, in conjunction with the Collaborative Research Centers SFB-TRR 58, Stress, Anxiety and Mental Health, 3–5 October, Würzburg, Germany

4. International Visegrad Fund, Serial No. 51700954, for research at Palacký University Olomouc, Czech Republic, 2017
Project title: "The association of telomere length with post-traumatic stress disorder and schizophrenia"
5. Travel grant for participation at the WASAD Congress 2017, in conjunction with the Collaborative Research Centers SFB-TRR 58, Fear, Anxiety, Anxiety Disorders 14–16 September, Würzburg, Germany
6. ANSEF NS-molbio-4525, 2017
Project title: "Molecular mechanisms of apoptosis in post-traumatic stress disorder", PI Diana Avetyan
7. Travel grant for participation at the 29th ECNP Congress, 17 - 20 September, 2016, Vienna, Austria.
8. Travel grant for participation at the 28th ECNP Congress, 29 August - 1 September, 2015. Amsterdam, The Netherlands.
9. Short Term Conference and Travel Grants, Calouste Gulbenkian Foundation, 2015
10. ISTC #A-2116 (2014-2016)
Project title: "Schiff base cyclic amino acid derivatives for chemoprotection against damaging action of mycotoxins", Manager PhD Margarita Malakyan, Scientific supervisor Prof. Anna Boyajyan
11. Travel grant for participation at the 27th ECNP Congress, 18-21 October, 2014, Berlin, Germany.
12. SCS -RARF-13RF-060 (2013-2015)
Project title: "Population genetic aspects of the distribution and variability of invasive species of blood-sucking Diptera and their role in shaping of the fauna of Armenia", PI Dr Karine Mayilyan
13. ANSEF NS-molbio-2829, 2012
Project title: "The role of low-grade inflammation in the pathogenesis of posttraumatic stress disorder", PI Gohar Mkrtchyan

ПУБЛИКАЦИИ

Книги, главы

1. Boyajyan A., **Avetyan D.**, Hovhannisyan L., Mkrtchyan G. Chapter 4. Genetics of posttraumatic stress disorder: candidate genes and their implication in the disease-associated molecular pathomechanisms. In: A Fresh Look at Anxiety Disorders (Editor: F. Durbano), InTech, EU, 2015, pp. 65-88. doi: [10.5772/60443](https://doi.org/10.5772/60443)
2. Boyajyan A., Mkrtchyan G., Hovhannisyan L., **Avetyan D.** Chapter 5. Alterations in the immune response, apoptosis and synaptic plasticity in posttraumatic stress disorder: molecular indicators and relation to clinical symptoms. In: New Insights Into Anxiety Disorders (Editor: F. Durbano), InTech, Croatia, EU, 2013, pp.105-133. doi: [10.5772/52693](https://doi.org/10.5772/52693)

Статьи

1. **Avetyan D.**, Chavushyan A., Ghazaryan H., Melkonyan A., Stepanyan A., Zakharyan R., Hayrapetyan V., Atshemyan S., Martirosyan G., Melik-Andreasyan G., Sargsyan Sh., Ghazazyan A., Aleksanyan N., Yin X., Arakelyan A. SARS-CoV-2 detection by extraction-free qRT-PCR for massive and rapid COVID-19 diagnosis during a pandemic. *MedRxiv* 2020.09.10.20191189; doi: <https://doi.org/10.1101/2020.09.10.20191189>

2. **Avetyan D.**, Zakharyan R., Petrek M., Arakelyan A. Telomere shortening in blood leukocytes of patients with posttraumatic stress disorder. *Journal of Psychiatric Research*, 2019, 111:83-88. doi: [10.1016/j.jpsychires.2019.01.018](https://doi.org/10.1016/j.jpsychires.2019.01.018)
3. **Avetyan D.**, Arakelyan A., Mkrtchyan G. Association of Bax and Bcl-2 functional polymorphisms and protein levels with posttraumatic stress disorder. *Journal of Biosciences and Medicines*, 2018, 6:23-32. doi: [10.4236/jbm.2018.62003](https://doi.org/10.4236/jbm.2018.62003)
4. **Avetyan D.**, Arakelyan A., Mkrtchyan G. Genetic polymorphisms of nervous system development and the risk of posttraumatic stress disorder. *American Journal of Molecular Biology*, 2018, 8(1):58-68. doi: [10.4236/ajmb.2018.81005](https://doi.org/10.4236/ajmb.2018.81005)
5. 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](https://doi.org/10.12688/f1000research.11756.1)
6. **Avetyan D.**, Malakyan M., Tonoyan V., Tadevosyan D., Matosyan D., Arakelyan A. Evaluation of protective effects of Schiff base derivatives of amino acids against Ochratoxin A-induced apoptosis in rats. *Biological Journal of Armenia*, 2016, 68, p. 31-34.
7. **Avetian D.**, Petrosyan M., Harutyunyan K., Musaelian R., Hovhannisyan L., Khanoyan D., Mkrtchyan G., Ayvazyan V., Boyajyan A. Genes encoding the complement alternative pathway factors in posttraumatic stress disorder. *Pharma*, 2015, 10, 48-53.
8. Boyajyan A., Stepanyan A., **Avetyan D.**, Ghazaryan H., Atshemyan S., Zakharyan R., Pirumyan K., Tsakanova G. Genetic variations associated with brain disorders: Focus on synaptic plasticity and apoptosis regulatory genes in schizophrenia, posttraumatic stress disorder and ischemic stroke. *International Journal of Genetics and Genomics*, 2014, 2(2), 19-29. doi: [10.11648/j.ijgg.20140202.12](https://doi.org/10.11648/j.ijgg.20140202.12)
9. Mkrtchyan G.M., Boiadzhyan A.S., **Avetyan D.G.**, Sukiasyan S.G. Involvement of anomalous apoptosis in impairments to synaptic plasticity in post-traumatic stress disorder. *Neuroscience and Behavioral Physiology*, 2014, 44(4), 442-446. (Translated from Zhurnal Nevrologii i Psichiatrii imeni S. S. Korsakova, 2013, 113 (1), p.26-29).
10. **Avetyan D.** Changes in apoptotic rate and synaptic plasticity in patients with posttraumatic stress disorder. *Electronic Journal of Natural Sciences*, 2013, 2(21), p. 70-73.
11. Mkrtchyan G.M., Boyajyan A.S., **Avetyan D.G.**, Sukiasyan S.G. The involvement of anomalous apoptosis in disturbance of synaptic plasticity in posttraumatic stress disorder. *Korsakov's Journal of Neurology and Psychiatry* (Zhurnal Nevrologii i Psichiatrii imeni S.S. Korsakova, Moscow), 2013, 113 (1), p.26-29.
12. Hovhannisyan L.P., Mkrtchyan G.M., Boyajyan A.S., **Avetyan D.G.**, Tadevosyan M.Y., Sukiasyan S.H. Inflammatory markers in post-traumatic stress disorder. *Cytokines and Inflammation*, 2012, 11(1), 42-45.

Тезисы

1. **Avetyan D.**, Avetisyan A., Khachatrian G., Sirunyan T., Ghazaryan H., Abroyan L., Niazyan L., Davidyants M., Ghalechyan T., Sargsyan K., Karalova E., Arakelyan A. Relation Between Viral Load And Hematological Changes in the Blood of COVID-19 Positive Patients. Book of Abstracts of the V International Conference of Biotechnology and Health 2020 (ICBH 2020), p. 31, 29–31 October, 2020 Yerevan, Armenia.
2. Khachatrian G., Sirunyan T., **Avetyan D.** SARS-CoV-2 Detection by Extraction-Free Qrt-PCR for Massive and Rapid COVID-19 Diagnosis During a Pandemic. Book of Abstracts of the V International Conference of Biotechnology and Health 2020 (ICBH 2020), p. 88, 29–31 October, 2020 Yerevan, Armenia.

3. **Avetyan D.**, Zakharyan R., Petrek M., Arakelyan A. Leucocyte telomere length, genetic variants at the TERT gene region and risk of posttraumatic stress disorder. Abstracts of the ECNP Workshop for Early Career Scientists in Europe, 5-8 March 2020, Nice, France. European Neuropsychopharmacology, Vol. 31, Suppl. 1, p. S9-S10, doi:[10.1016/j.euroneuro.2019.12.012](https://doi.org/10.1016/j.euroneuro.2019.12.012)
4. **Avetyan D.**, Zakharyan R., Petrek M., Arakelyan A. Association between rs734194 genetic variant of nerve growth factor receptor (NGFR) and peripheral telomere length with posttraumatic stress disorder. Abstracts of the WASAD Congress 2019, in conjunction with the Collaborative Research Centers SFB-TRR 58, Fear, Anxiety, Anxiety Disorders 3–5 October, Würzburg, Germany, Journal of Neural Transmission, 2019, 126 (11): 1532. doi: [10.1007/s00702-019-02095-9](https://doi.org/10.1007/s00702-019-02095-9)
5. **Avetyan D.**, Mkrtchyan G. Epigenetic alterations of the brain derived neurotrophic factor (BDNF) gene in combat veterans with posttraumatic stress disorder. Abstracts of the WASAD Congress 2017, in conjunction with the Collaborative Research Centers SFB-TRR 58, Fear, Anxiety, Anxiety Disorders 14–16 September, Würzburg, Germany, Journal of Neural Transmission, 2017, 124 (10), p. 1297-1298. doi:[10.1007/s00702-017-1777-9](https://doi.org/10.1007/s00702-017-1777-9)
6. Hovhannisyan L., **Avetyan D.**, Mkrtchyan G., Arakelyan A. Complement alternative pathway factors in the pathogenesis of posttraumatic stress disorder. European Neuropsychopharmacology, Vol. 27, Suppl. 4, p. S987, 30th ECNP Congress. Paris, France, 2-5 September, 2017. doi:[10.1016/S0924-977X\(17\)31737-6](https://doi.org/10.1016/S0924-977X(17)31737-6)
7. **Avetyan D.**, Mkrtchyan G., Zakharyan R., Kirakosyan S., Devejyan H., Ayvazyan V., Arakelova E., Malakyan M., Arakelyan A. Protective role of Schiff base derivatives of amino acids against aflatoxin B1-induced apoptosis in rats. International Symposium of Mycotoxicology 2016 «ISMYCO 2016», Tokyo, Japan, 30 November-3 December, 2016, p.73.
8. Hovhannisyan L., Stepanyan A., **Avetyan D.** Association of interleukin-1 β gene polymorphisms with post-traumatic stress disorder. European Neuropsychopharmacology, Vol. 26, Suppl. 2, p. S594-S595, 29th ECNP Congress. Vienna, Austria, 17-20 September, 2016. doi:[10.1016/S0924-977X\(16\)31666-2](https://doi.org/10.1016/S0924-977X(16)31666-2)
9. **Avetyan D.**, Mkrtchyan G. The role of genes encoding the transcription factors c-Fos, c-Jun and Ier5 in posttraumatic stress disorder. European Neuropsychopharmacology, Vol. 26, Suppl. 2, p. S595-S596, 29th ECNP Congress. Vienna, Austria, 17-20 September, 2016. doi: [10.1016/S0924-977X\(16\)31668-6](https://doi.org/10.1016/S0924-977X(16)31668-6)
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13. **Avetyan D.**, Mkrtchyan G., Boyajyan A. Synaptic plasticity changes in combat veterans with posttraumatic stress disorder. European Neuropsychopharmacology Vol. 24, Suppl. 2, p. S585, 27th ECNP Congress. Berlin, Germany, 18-21 October, 2014. doi:[10.1016/S0924-977X\(14\)70937-X](https://doi.org/10.1016/S0924-977X(14)70937-X)
14. **Avetyan D.G.**, Mkrtchyan G.M. Molecular genetic monitoring of GMO presence in the market of available food products in Armenia. Book of Abstracts of the 2nd International Scientific Conference of Young Researchers "Contribution of the young generation in the development of biotechnology", Yerevan, October 1-4, 2013, p.85-86.

15. Boyajyan A., **Avetyan D.**, Mkrtchyan G., Sukiasyan S., Zakharyan R., Atchemyan S., Gevorgyan A., Melkumova M., Torosyan S. Population genomics study of molecular pathomechanisms responsible for apoptotic and synaptic plasticity dysfunction in posttraumatic stress disorder and schizophrenia. *Armenian Journal of Mental Health*, 2013, 4(suppl1), p. s66-s67.
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17. Hovhannisyan L., **Avetyan D.**, Mkrtchyan G., Tadevosyan M., Sukiasyan S., Boyajyan A. Inflammatory mediators in the blood of Karabakh combat veterans with posttraumatic stress disorder. Abstracts of the International Symposium on Neuroscience and Biological Psychiatry “Stress and Behavior: Yerevan-2013”, Yerevan, Armenia, 20-21 September, 2013, p. 8-9.
18. **Avetyan D.** Changes in Apoptotic rate and synaptic plasticity in patients with posttraumatic stress disorder. Abstracts of the Young Scientists' Conference “New Aspects in Molecular Biotechnology and Biochemistry”, Yerevan, Armenia, 27-28 June, 2013, p. 11.
19. Hovhannisyan L., **Avetyan D.**, Mkrtchyan G., Sukiasian S., Boyajyan A. Posttraumatic stress disorder phenotype and cytokine profile. Proceedings of the SAM, Berlin, Germany, 29 November - 1 December, 2012, p. 32.
20. **Avetyan D.G.**, Hovhannisyan L.P., Mkrtchyan G.M., Boyajyan A.S. Pathogenesis of posttraumatic stress disorder is characterized by decreased rate of apoptosis. Abstracts of the International Young Scientists Conference “Perspectives for development of molecular and cellular biology”, Yerevan, Armenia, 26-29 September, 2012, p. 45-48.
21. **Avetyan D.G.** Molecular basis of cognitive impairment in posttraumatic stress disorder. Abstracts of the Interuniversity Student Conference “Contemporary Trends of the Development of Biology”, which was dedicated to the 190th anniversary Gregor Mendel, Yerevan, Armenia, 19 June, 2012, p. 26-28.
22. Hovhannisyan L., **Avetyan D.** Pro-inflammatory cytokines in posttraumatic stress disorder. Allergy school “Dermatitis and Eczema”. Krakow, Poland, 18-21 August 2011, p. 299.