

CURRICULUM VITAE

Anahit Sedrakyan

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Present Positions:

Senior researcher, head of Laboratory of Molecular Genetics, Institute of Molecular Biology,
National Academy of Sciences of the Republic of Armenia

Home address: 1703, Moldovakan str. 0096, Yerevan, Republic of Armenia.

Date and Place of birth: 26 July, 1960, Kirovakan, Armenia

Nationality: Armenian

Citizenship: Republic of Armenia

Education:

1996 Ph.D; Field: Molecular Biology and Genetics

1990-1993 Ph.D. student, Institute of Molecular Biology, National Academy of Sciences of
the Republic of Armenia

1979-1984 Yerevan State University, Faculty of Biology, Biophysics

Employments:

2017- at present Head of Laboratory of Molecular Genetics, Institute of Molecular Biology,
National Academy of Sciences of the Republic of Armenia

2003- 2017 Senior researcher at the Laboratory of Molecular Genetics, Institute of
Molecular Biology of NAS, RA

1998-2003 Researcher, Laboratory of Molecular Genetics, Institute of Molecular
Biology of NAS, RA

1991-1996 Laboratory assistant, Institute of Molecular Biology of NAS, RA

Grants:

2016-2018 ISTC Project #A-2140 **Targeted elimination of multidrug-resistant (MDR)
Salmonella by bacteriophages**; Manager

2014-2015 Armenian National Science and Education Fund (ANSEF, USA) "molbio-3581"
**Molecular characterization of genetic basis of multi-drug resistance in non-
typhoidal *Salmonella enterica* strains isolated from patients in Armenia**; PI of
the project

2011-2013 Committee of Science, Ministry of Education and Science, Republic of Armenia
"11-1f 494" **The role of intestinal homeostasis in prediction of *Salmonella*
infection and carriage**; Researcher

2004-2008 ISTC project, A-1055/**The role of intestinal microflora in the pathogenesis of
familial Mediterranean fever**; Researcher

Research interests:

Microbial ecology; antimicrobial resistance; infectious diseases; infectious and aseptic inflammation.

Current research activities:

Study of highly virulent and multidrug resistant *Salmonella* strains circulating in Armenia. Development of phage therapy approaches to control spread of infectious diseases and antimicrobial resistance in Armenia.

Recent publications:

1. Zhanna A. Ktsoyan, Mkhitar S. Mkrtchyan, Magdalina K. Zakharyan, Armine A. Mnatsakanyan, Karine A. Arakelova, Zaruhi U. Gevorgyan, Anahit M. Sedrakyan, Alvard I. Hovhannisyanyan, Arsen A. Arakelyan and Rustam I. Aminov. **Systemic Concentrations of Short Chain Fatty Acids Are Elevated in Salmonellosis and Exacerbation of Familial Mediterranean Fever.** May 2016 /Frontiers in Microbiology 7(101) DOI:10.3389/fmicb.2016.00776
2. Ktsoyan Z, Mkrtchyan M, Zakharyan M, Mnatsakanyan A, Arakelova K, Gevorgyan Z, Ktsoyan L, Sedrakyan A, Hovhannisyanyan A, Ghazaryan K, Boyajyan A and Aminov R (2015) **Differential induction of total IgE by two *Salmonella enterica* serotypes.** Frontiers in Cellular and Infection Microbiology 5:43. doi:10.3389/fcimb.2015.00043
3. Ktsoyan ZhA., Beloborodova NV, Sedrakyan AM, Osipov GA, Khachatryan ZA, Manukyan GP, Arakelova KA, Hovhannisyanyan AI, Arakelyan AA, Ghazaryan KA, Zakaryan MK and Aminov RI. **Management of familial Mediterranean fever by colchicine does not normalize the altered profile of microbial long chain fatty acids in the human metabolome.** Frontiers in Cellular and Infection Microbiology, 2013 January, V.3, Article 2, 1-8. doi:10.3389/fcimb.2013.00002
4. Sedrakyan A.M., Arakelova K.A., Zakaryan M.K., Hovhannisyanyan A.I., Asoyan A.V., Gevorgyan Z.U., Mnatsakanyan A.A., Ktsoyan Z.A., Boyajyan A.S., Aminov R. **Multidrug-resistance and presence of class 1 integrons in clinical isolates of *Salmonella enterica* serotype Enteritidis, circulating in Armenia.** Infekciã i immunitet (Infection and Immunity), 2013, V. 3, no. 4, pp. 355–358. (in Russian)
5. Sedrakyan A.M., Arakelova K.A., Gevorgyan Z.U., Mnatsakanyan A.A., Zakaryan M.K., Hovhannisyanyan A.I., Asoyan A.V., Ktsoyan Zh.A. **Multidrug resistance of clinically important serotypes of causative agents of salmonellosis.** Biological Journal of Armenia, 2013, V. LXV, no. 4. pp. 13-20. (in Russian)
6. M.K. Zakharyan, A.M. Sedrakyan, K.A. Arakelova, A.I. Hovhannisyanyan, A.V. Asoyan, Z.U. Gevorgyan, A.A. Mnatsakanyan, Zh.A. Ktsoyan, A.S. Boyajyan and R.I. Aminov **Antibiotic resistance and occurrence of class 1 integrons in clinical isolates of *Salmonella enterica*.** Global Journal of Immunology and Allergic Diseases, 2013, 1, 44-48.
7. Zh.A. Ktsoyan, K.A. Ghazaryan, G.P. Manukyan, A. Martirosyan, A.A. Mnatsakanyan, K.A. Arakelova, Z.U. Gevorgyan, A.M. Sedrakyan, A.V. Asoyan, A.S. Boyajyan and R.I. Aminov **Inflammatory responses to *Salmonella* infections are serotype-specific.**

8. Ktsoyan Zh.A, Ghazaryan K.A., Martirosyan A.A., Mnatsakanyan A.A., Arakelova K.A., Gevorgyan Z.U., Tatyana M.B., Hovhannisyan A.I., Sedrakyan A.M., Zakharyan M.K., Arakelyan A.A., Boyajyan A.S., Aminov R.I. **Profile of proinflammatory response in salmonellosis depends on serotype of the pathogen.** 2013. Cytokines & Inflammation (in Russian) 12:131-136.
9. Zhanna A Ktsoyan, Natalia V Beloborodova, Anahit M Sedrakyan, George A Osipov, Zaruhi A Khachatryan, Denise Kelly, Gayane P Manukyan, Karine A Arakelova, Alvard I Hovhannisyan, Andrey Y Olenin, Arsen A Arakelyan, Karine Ghazaryan, Rustam I Aminov. **Profiles of microbial fatty acids in the human metabolome are disease-specific.** Frontiers in Cellular and Infection Microbiology. 2010, 1:148; doi:10.3389/fmicb.2010.00148 January 2011, V.1, 148, P.1-9.