

Aiarpi Ezdoglian

Immunologist/ Pediatrician

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PROFILE

Throughout my clinical training and education, I have found myself drawn to immunology and immunotherapy. To expand the understanding of all the mechanisms evolved in autoimmune diseases I decided to take a scientific program in one of the best medical science research universities where I work on checkpoint inhibitors. The program included courses on basic and advanced immunology and immunotherapy, genes and immunity, biologic drug discovery, applied statistics, bioinformatics and host-pathogen interactions in infection, supported with research paper critical reading and writing. During my masters project I got passionate about Flow Cytometry as a powerful tool for generating high quality quantitative data, and decided to stay in this field, where I am currently working.



EDUCATION

2017-2018
Aberdeen, UK

- **Master of science in Immunology and immunotherapy.**
University of Aberdeen.
- Graduation with distinction.

2015-2016
Moscow, RF

- **Specialization in Pediatrics.**
Pirogov Russian National Research Medical University.
- Graduation with honors.

2009-2015
Moscow, RF

- **General medicine in Therapeutic Faculty.**
Pirogov Russian National Research Medical University.
- Graduation with honors.



WORK EXPERIENCE

05/2020
08/2020
RF

- **Working as an Infectious diseases and immunology specialist in various Covid-19 hospitals (Moscow, Nikolskii, Kamchatka).** Intensive care units and infectious unit medical care. Conducting all manipulations with cytokine storm treatment in severe Covid-19 patients.

02/19-
08/2020
Moscow, RF

- **Leading Flow Cytometry product specialist in BioLine** (exclusive distributor of BD (Becton, Dickinson and Company), flow cytometers and reagents in Russia).
- *Teaching and supporting BD users, trainings and lectures, assay validation, scientific and technical support in flow cytometry, cell sorting and data analysis.*

02/16
currently
Moscow, RF

- **Working as scientific editor in international medical journal «Bulletin of RSMU»** since 2019 also as an immunology advisor for the laboratory of toxicology and medical chemistry

05/18-12/18
Aberdeen, UK

- **Ian Fraser Cytometry Center, University of Aberdeen. Project scientist**
- *Supporting users in scientific questions, data analysis, developing protocols for deep learning data analyses in cell cycle analyses. Imagestream Flow cytometry (FC) data analyses using deep learning. Performing translocation and colocalisation analysis for FC data.*

04/18-12/18
Aberdeen, UK

- **Masters research project. University of Aberdeen.**
- *“Relative expression of soluble CTLA-4 in PBMCs and cancer cell lines. Soluble CTLA-4 localization and translocation in healthy and malignant B cells”. The work was performed on biotinylated monoclonal antibodies (soluble CTLA-4). The localization, colocalization and expression of sCTLA-4 was studied along with its expression during different cell cycle phases under different treatment conditions. The methods used were ELISA, FC, imaging FC, confocal microscopy.*



WORK EXPERIENCE

11/16-07/17
Moscow, RF

Pediatrician in children city clinic 121.

Healthcare practitioner in pediatrics immunology and infections departments. The main responsibility was the treatment of infectious diseases in accordance with Russian and international standards.

2015 – 2016
Moscow, RF

Residency in First Department of Neonatology of «Children's City Clinical Hospital № 9 named GN Speranskii»

Healthcare practitioner in neonatal and pediatric immunology and infections departments. .

/15-05/15
Moscow, RF

Applied Anatomy teacher in «Youth Innovation Creativity Center Academia» (FabLab).

Demonstration to the young scientists the main features of human anatomy and physiology in purpose of making devices for healthcare marketplace. Group lectures and practices.

2013-2015
Moscow, RF

Head of Student Scientific Society of the department of Faculty Therapy named after academic Nesterov. Russian National Research medical university.

Organization, technical and informational support of student scientific conferences. Scientific research: the influence of Warfarin and Rivaroxaban on a bone density and health in Patients with chronic thromboembolic pulmonary hypertension.

2013-2014
Maribor,
Slovenia

Practice at the Medical Faculty of the University Of Maribor, Slovenia.

Department of Hematology, hemodialysis, rheumatology and intensive care. With highest marks for work, from Professor Arthur Pahor, head of the Hospital and rheumatology department.

2013
Moscow, RF

Guide, anatomy teacher and scientific advisor. International exhibition «Our body the Universe within».

Teaching customers the basics of human anatomy, normal and pathological physiology along with the promotion of healthy lifestyle.

2012-2013
Moscow, RF

Laboratory assistant in diagnostic PCR. Federal Research Center of Pediatric Hematology, Oncology and Immunology named Dmitry Rogachev.

Quantitative PCR



SKILLS



Scientific

- Flow cytometry/ cell sorting
- Confocal microscopy
- Experimental design
- ELISA
- Cell culture
- FlowJo, FCS express
- ZEN, Cell profiler, IDEAS
- nSolver, Matlab
- Spade, T-SNE, K-means



Personal

- Friendly
- Fast learner
- Stress resistant
- Able to work under pressure
- Passionate



Language

- English - Fluent
- Russian - Native
- Armenian - Native
- French – beginner



Conferences and Scientific Work

2019	ESCCA annual conference. Additional course on Flow cytometry tools, including R for clustering, ESCCA database and InfiniCyte as tools for implementing machine learning algorithms in Flow Cytometry data analysis.
2019	"Fast-Field Cycling Magnetic Resonance Imaging Detection of Intracellular Ultra-small Iron Oxide Particles" Hassan Abbas, Lionel Broche, Aiarpi Ezdoglian, Dmitriy Li, Raif Yuecel, P Ross, Lesley Cheyne, Heather Wilson, David Lurie, and Dana Dawson.
2018	Relative expression of soluble CTLA-4 in different cells types. Soluble CTLA-4 localization and translocation in cancer and healthy B cells (Scientific supervisors Dr Frank Ward, Dr. Raif Yuecel).
2014	Craiova International Medical Students' Conference 2014 with case report "patients with Mortarella syndrome.
2013	International students and young scientist's conference: Gaazovskie read "Hasten to do good..." with case-report: «clinical follow-up of patients with primary biliary cirrhosis in combination with autoimmune hepatitis and systemic scleroderma. (overlap-syndrome) in the presence of family autoimmune disorders susceptibility».
2014	International students and young scientist's conference: Gaazovskie read "Hasten to do good..." with case-report: «Martorell syndrome Complicated by severe arterial hypertension».
2014	IX international (XVIII All-Russian) Pirogov Scientific Medical Conference of students and Young Scientists 2014 with scientific report: clinical significance of detection of antibodies to phospholipids in patients with chronic thromboembolic pulmonary hypertension. (Scientific Advisors – DMedSci, Prof. N.A. Shostak, CandMedSci, Assoc. Prof. A.A. Klimenko)
2013	All-Russian Society of Rare Diseases: as a doctor and advisor for patients with pulmonary hypertension, autoimmune diseases and connective tissue diseases.
2010-2013	Editor of the "University Newspaper", participating in the cultural life of the Pirogov RNRMU.
2012	Student scientific society of the department of hematology, oncology and radiation therapy of pediatric faculty. Recommendation from the Head of Department prof. Rumyantcev S.A.



Distance Education

May 2016 Minnesota	University of Minnesota courses: Healthcare Delivery Providers, Healthcare marketplace, Healthcare Marketplace Capstone, Medical Technology and Evaluation, Pharmaceutical and Medical Device Innovations.
April 2016 Copenhagen	University of Copenhagen course: Bacteria and Chronic Infections. Biofilm formation and properties.
May 2016 Novosibirsk	Introduction to Virology Novosibirsk State University
March 2016 Pittsburg	University of Pittsburgh course: Clinical Terminology for International and U.S. Students.
December 2017 Baltimore	Johns Hopkins University course: Statistical Reasoning for Public Health 1: Estimation, Inference, & Interpretation. Introduction to Genomic Technologies.
February 2019	American Museum of Natural History The science of stem cells (online course of lectures)



Thank You Letter

April 2015	Thank you letter from the Minister of health Skvortsova V.I., for educational success and organization of every year conference «The best physician»
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Volunteering Experience and Social Achievements

2016	Applied pathophysiology lecturer for Armenian students and volunteers
2013-2015	Project management in Blood donation movement in Russian National Research Medical University
2009-2014	Head of Armenian Medical student's society in Russian National Research Medical University
2013	Ecology project on paper recycling in Russia National Research Medical University
2009-2015	Student Union leader, volunteering support in hospitals and orphanages



Certificates/International Experience

2015 Moscow, RF	Nursing care certificate, allowing to work as a nurse.
2013-2015 Moscow, RF	Courses «Body-oriented art therapy approach in work with neurotic and bodily symptoms of ADHD in children» and «The use of body oriented psychotherapy in patients with severe somatic and oncology» in Institute of Psychotherapy and Clinical Psychology.
2013-2014 Maribor, Slovenia	Practice at the Medical Faculty of the University Of Maribor, Slovenia, in the Department of Hematology, hemodialysis, rheumatology and intensive care. With highest marks for work, from Professor Arthur Pahor, head of the Hospital and rheumatology department.