


PERSONAL INFORMATION

Yasaman Sadeghi

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ACADEMIC EDUCATION

Sep 2015–Jan 2018

Master of Science in Medical Microbiology

Tehran University of Medical Sciences, Tehran, Iran

Thesis: Evaluation of Methicillin resistant *Staphylococcus aureus* SCCmec typing using Real-Time PCR followed by Melting Analysis, in comparison with conventional multiplex PCR.
(Grade Point Average: A+)

Jan 2011–Jul 2014

Bachelor of Science in Cellular Molecular Biology-Microbiology

Alzahra University, Tehran, Iran

Key modules: Bacteriology, microbiology (environmental, food and industrial), mycology, virology, cellular biology, genetics, biochemistry, animal physiology, biophysics, immunology and all related labs.
(Grade Point Average: A)

WORK EXPERIENCE

Dec 2018 - Present

Cancer Research Expert (Microbiologist)

Hematology-Oncology Research Center, Mahak Hospital, Tehran, Iran

- Analyze bio statistical data using software such as Microsoft Excel and IBM SPSS.
- Prepare biographies of pediatric patients with malignancies and write case reports.
- Analyze clinical records of pediatric patients diagnosed with cancer for research projects.
- Perform research to evaluate the genetic makeup and behavior of tissues and cancerous cells in childhood cancer.
- Investigate and evaluate cancer biotechnology to develop strategies for new methods of cancer diagnosis, prevention, and treatment.

- Engage in research studies to improve understanding of correlation between microbial infections or microbiota and childhood cancer.
- Write original articles, case reports, and systematic review papers as well as preparing summary articles for presentation at scientific congresses.
- Prepare reports about progress in research projects and dispatch written articles to be printed in reputable national and foreign scientific-research journals.
- Supervise junior researchers, technologists and technicians on the cancer research team and implement research plans and proposals.
- Hold scientific workshops and cooperate in holding scientific congresses.
- Obtain behavioral code from relevant university by dispatching approved research plans.
- Perform clinical and laboratory trials to test and screen drugs used in cancer treatment.
- Report weekly to the direct supervisor of the research center.
- Conduct yearly assessment of the center for Hematology Oncology Research Center.
- Providing extensive communication and collaboration with co-workers and other team members.
- Designing a standard microbiology lab as a part of a new research center establishment.
- Designing questionnaires including demographic and clinical data and working closely with cancer project team to establish processes to ensure consistent and high-quality records.

Oct 2015- Dec 2018

Microbiology Laboratory Technician
Nabz Medical Diagnostic Laboratory, Tehran, Iran

- Conducting all routine microbiology tests including culture, biochemistry and antibiotic susceptibility tests on all patient samples such as urine, stool, sputum, body fluids, CSF, blood, tissue biopsy, etc.
- Setting up, operating and maintaining laboratory equipment
- Conducting chemical analyses of blood, urine, and cerebrospinal and other body fluids.
- Phlebotomy in some urgent cases.
- Preparing all required microbiological culture media.
- Staining (Gram, Acid-fast, capsule, flagella and endospore staining) of microscopic specimens.
- Working with different microscopes.
- Conducting quality control assessment of testing techniques.
- supervising and training other medical laboratory technical staff and students (interns).

Jan 2016- Jan 2018

Part-time Research Assistant (Master Thesis)
Urology Research Center, Sina Hospital, Tehran, Iran

- Identifying bacterial species using phenotype and genotype based methods.
- Molecular tests using Real-Time PCR, from primer design and procedure set-up to evaluating unknown samples.
- Designing and setting up High Resolution Melting curve Analysis (HRM) method for different projects.
- Working routinely with other molecular testing equipment such as thermo cycler (PCR), pre and post PCR procedures (electrophoresis).
- Working with other laboratory equipment including spectrophotometer (and nanodrop), gel duct, bain-marie, centrifuge, autoclave, incubator, etc.
- Analyzing data obtained from different projects using statistical software such as SPSS.
- Having some lectures about different projects.

Aug 2012- Sep 2015

Microbiological Technician
Mehrkanaz Sanat Co., Tehran, Iran

- Applying methods and techniques such as microscopy, histochemistry, chromatography, electrophoresis and spectroscopy.
- Setting up and conducting biological, microbiological and biochemical tests in support of quality control in food production and air pollution.
- Conducting field research to collect data and samples of water, soil, and plant and animal populations.
- Assisting in analysis of data and preparation of reports.

Aug 2014- Oct 2014

Part-time Research Assistant
Hepatitis and AIDS department, Pasteur Institute of Iran, Tehran, Iran

- Working with most of the molecular and cellular techniques including Real-Time PCR, cloning, mammalian cell culture and serological detection methods.
- Team working on some projects related to AIDS.

Jun 2014- Jul 2014

Mycobacteriology Laboratory Intern
Department of Mycobacteriology and Pulmonary Research, Pasteur Institute of Iran, Tehran, Iran.

Dec 2012- Sep 2013

Microbiology and Biochemistry Laboratory Intern and Volunteer Laboratory Technician
Alghadir Hospital, Tehran, Iran.

Jul 2012- Nov 2012

Part-time Marketing Technician
Solico Food Industries Co., Tehran, Iran.

Aug 2010- May 2012

Part-time Educational Consultant and Teacher Assistant
Kanoon Farhangi Amoozesh Ghalamchi, Tehran, Iran.

CERTIFICATES

- Jan 2018 Presented the oral entitling “High Resolution Melting Curve Analysis, a new frontier for bacterial genotyping”, Urology Research Center, Sina Hospital, Tehran, Iran.
- Oct 2017 Presented the oral entitling “Real-Time PCR followed by HRM, design to setting-up basics”, Urology Research Center, Sina Hospital, Tehran, Iran.
- Aug 2017 Presented the oral entitling “SCC*mec* typing of MRSA by Real-Time PCR”, the 18th International and Iranian Congress of Microbiology, Tehran University of Medical Sciences, Tehran, Iran.
- Aug 2017 Participated in the workshop on “Systematic review and meta-analysis”, the 18th International and Iranian Congress of Microbiology, Tehran University of Medical Sciences, Tehran, Iran.
- Aug 2017 Participated at The 18th International and Iranian Congress of Microbiology, Tehran University of Medical Sciences, Tehran, Iran.
- Jan 2017 Presented the oral entitling “The traditional morphological and biochemical methods used to identify environmental microorganisms”, Urology Research Center, Sina Hospital, Tehran, Iran.
- Dec 2016 Presented the oral entitling “*Bordetella pertussis*, epidemiology, diagnosis and treatment”, Department of Pathobiology, Tehran University of Medical Sciences, Tehran, Iran.
- Nov 2016 Presented the oral entitling “Prokaryote Genetics, Transposition”, Department of Pathobiology, Tehran University of Medical Sciences, Tehran, Iran.
- Aug 2016 Participated at The 17th International and Iranian Congress of Microbiology, Tehran University of Medical Sciences, Tehran, Iran.
- Aug 2016 Participated in the workshop titled “Real-Time PCR, Amplicon co.” Tehran University of Medical Sciences, Tehran, Iran.
- May 2016 Presented the oral entitling “IDO in microbial pathogenesis”, Department of Pathobiology, Tehran University of Medical Sciences, Tehran, Iran.
- May 2016 Presented the oral entitling “New Insights of *Vibrio cholerae*”, Department of Pathobiology, Tehran University of Medical Sciences, Tehran, Iran.
- May 2016 Presented the oral entitling “Phage therapy in microbial infections”, Department of Pathobiology, Tehran University of Medical Sciences, Tehran, Iran.
- Apr 2016 Served as one of the members of the executive committee in the 1st International Conference on Sustainable Health Development, Tehran University of Medical Sciences, Tehran, Iran.
- Mar 2016 Participated in workshop titled “ Extraction of insoluble proteins using denaturation method”, Urology Research Center, Sina Hospital, Tehran, Iran
- Nov 2015 Participated at The 3rd Iranian Congress of Medical Bacteriology, Milad Hospital, Tehran, Iran.

Oct 2015 Served as one of the members of the executive committee in Iranian Public Health Association conference, Tehran, Iran.

PUBLICATIONS

- 1- **Article:** Real-Time PCR followed by High Resolution Melting Analysis (HRM), a new robust approach to evaluate SCCmec typing of MRSA. (Published)
[Sadeghi Y, Salami SA, Kananizadeh P, et al. Real-time PCR followed by high-resolution melting analysis—a new robust approach to evaluate SCCmec typing of methicillin-resistant *Staphylococcus aureus*. *Future microbiology*. 2019;14(02):155-64.]
- 2- **Article:** Evaluation and Phylogenetic Analysis of Regular Rabies Virus Vaccine Strains. (Published)
[Ayorloo M, Mirzaei H, Sadeghi Y, et al. Evaluation and phylogenetic analysis of regular rabies virus vaccine strains. *Archives of Iranian medicine*. 2018;21(3):101.]
- 3- **Article:** Evaluation of sensitivity and specificity of LAMP and PCR assays in detection of foodborne diseases: A systematic review and meta-analysis. (Accepted)
- 4- **Article:** Molecular characteristics of methicillin resistant *Staphylococcus aureus* (MRSA) strains isolated from diabetic foot infection. (Accepted)
- 5- **Article:** Childhood Hodgkin's lymphoma in Iran; Survival and outcome (Submitted)
- 6- **Article:** Adverse drug reactions in children diagnosed with cancer over a 10-year period (Submitted)
- 7- **Article:** Prognosis and management of pediatric patients with Neuroblastoma: A 12-year experience from a single center study (Submitted)
- 8- **Article:** Expression analysis of FOXC1 & FOXCUT genes in patients with gastric cancer (Submitted)
- 9- **Book:** Questions of medical bacteriology based on reference books (Published)

PERSONAL SKILLS

LANGUAGE SKILLS

English: Fluent
(IELTS overall score: 8, Listening: 8, Speaking: 7, Reading: 9, Writing: 7)

Persian: Native

COMPUTER COMPETENCY

Microsoft Office (Word, Power point, Excel, outlook, one note)
Endnote
Adobe Photoshop
IBM SPSS® software