

# Curriculum Vitae

## Elham Mazaheri-Tehrani

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### Objective

To obtain a laboratory position using critical thinking and teamwork skills plus the ability to work independently and also enhancing my educational and professional skills in a stable scientific and dynamic workplace.

### Professional Experience

**Junior researcher**, Diagnostic for the Real World (DRW), Unit of Cambridge University, Chesterford, Research Park, UK, July – Nov 2018

Performing laboratory research for setting a platform for diagnostic by Quall whole blood test for Hepatitis C. Internal control and swab testing for amplicon contamination, risk assessment and attending in weekly meeting for FIND (Foundation for Innovative New Diagnostics), Geneve, Switzerland.

**Postdoctoral Fellow**, Tehran University of Medical Sciences AND University of Modena and Reggio Emilia (Collaboration project) , Jan 2016-May 2018

Leading and doing a complete project entitle: Analyses of Inflammasome Component among HIV positive patients with neurocognitive Disorders. Being expert in Monocyte isolation, Translational Immunology.

**PhD student**, Clinical and Experimental Medicine, University of Modena and Reggio Emilia, Italy, Jan 2011-Feb 2014

Doing a complete project under supervision of Prof. Claudio Cermelli entitle” Interaction between Pathogenic viruses and Candida albicans biofilm”. Being expert in biofilm culture and assay, virus infection and interaction of viruses and candida biofilm.

**Research Assistant**, Neuroscience Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran, May 2005-Dec 2010

Cooperation in many research projects is entitled:

- 1- Protective roles of Telomerase enzyme activity against apoptosis in neural stem cell lines to access suitable cellular model of Multiple Sclerosis disease for Gene Therapy purposes
- 2- Differentiation of Embryonic Stem Cells into Functional Dopaminergic Neurons Resistant to Oxidative Stress.
- 3- Neuroprotection in Parkinson's Disease: a Multi-directional Genetic Strategy for Maximum Protection of Dopaminergic Neurons against Parkinsonian

#### 4- Prevalence of Borna Disease Virus Infection among Psychiatric patients

Apart from working in mentioned projects, other responsibilities such as teaching molecular biology and cell culture techniques and maintenance of cell line banking and checking to be free of contamination were among my responsibilities.

**Research Assistant**, Pediatric Infectious Research Center of Shahid Beheshti University, Tehran, Iran, March 2004-June 2005

Cooperation in two projects are entitled:

- 1- Detection of Latent Infection in Epstein-Barr Virus in Pediatric Hodgkin Lymphoma Using Immunohistochemistry (IHC) and In Situ Hybridization.
- 2- Prevalence Electropherotypes and Subgroups Human Rotavirus among Hospitalized Children under 5-Years old with Acute Gastroenteritis.

**Technician researcher**, Department of Arboviruses and Hemorrhagic Fevers, Institute Pasteur of Iran, Tehran, Iran , March 2002-Feb 2004

### Education

**PhD degree**, Clinical and Experimental Medicine, University of Modena and Reggio Emilia, Modena, Italy.

**M.Sc degree**, Medical Virology, Ahvaz Jondishapour University of Medical Sciences, Ahvaz, Iran

**B.Sc degree**, Microbiology, Cell and Molecular Biology, Azad University, Tehran, Iran

### Technical Skills and Trainings

- Cell culture techniques: Cell culture, stem cell culture and grow, virus detection in infected cells, cell infection, stem cell culture, medium preparation for cell culture, cell counting.
- Molecular biology techniques: DNA and RNA extraction, PCR and RT-PCR, protein extraction, Gene electrophoresis.
- In vivo techniques: mice and rat injection and handling
- Immunology techniques: PBMC isolation from whole blood, Monocyte isolation, working with different myltenyi kits, Flow cytometry, ELISA for diagnostic Ag and Abs against infectious diseases and cytokine detections.

- Microbiology techniques: traditional culturing bacteria, mycology techniques such as fungi culture in plate, Biofilm research such as biofilm culture and biofilm detection.
- Writing scientific paper, proposal ( for example enough experiences in applying European Respiratory Society by two times writing proposal for Marie Curie foundation)

## **Computational and Statistical Skills**

- Microsoft Office Software
- Bioinformatics
- SPSS and other statistical softwares.

## **Awards and Honors**

1. Registration award to attend in 6th advanced Modena cytometry course. Sep 6-9, 2016

Modena, Italy

2. Investigator Award Based on the abstract, European Conference on Virology. Sep 11-14, 2013, Lyon, France

3. Accepted in the highly competitive Ph.D. program University of Modena fellowship, school of Clinical and Experimental Medicine. University of Modena and Reggio Emilia. Sep 2011, Modena, Italy

4. The project accepted on prevalence of Borna Disease virus among psychiatric patients and healthy controls, Neuroscience Research Center with collaboration with Free University of Berlin, April 2008, Berlin, Germany

5. Ranked 7<sup>th</sup> between 7000 examinees for M.Sc. entrance exam in medical Virology , Sep2001, Tehran , Iran

## **Languages**

**Native:** Persian

**Second:** English, Fluent , C1

**Third:** Italian, Conversant, B1 certificate

## **Collaborations**

- 1- Collaboration on Postdoc projects entitled: Analyses of Inflammasome components among HIV positive patients with neurocognitive disorders. (2017-2019). Iranian Research Center for HIV/AIDS of Tehran University and department of Pathology and Immunology, University of Modena and Reggio Emilia, Modena. Italy.

- 2- Collaboration on a research project entitled: prevalence of Borna Disease Virus among Psychiatric patients in Iran. 2008-2010. Free University of Berlin and Neuroscience Research Center, Shahid beheshti University, Tehran ( June 2008)

## **Publications**

1. Seyed Alinaghi. SA , Mazaheri-Tehrani. E and et al. Comparison of Tuberculosis Indicators after Implementation of the Clinical Protocol for Tuberculosis and HIV Management in Iranian Prisons. Journal of Health Research. Jan 2020.
2. Mazaheri-Tehrani, E and et al. Prevalence of HIV-associated Neurocognitive Disorder (HAND) and HAND-subgroups among people living with HIV in Tehran, Iran, Psihologija. 2020, Vol. 53(2), 115–127.
3. Mehran Izadi, Banafsheh Dadsetan, Zeinab Najafi, Siroos Jafari, Elham Mazaheri Tehrani, Omid Dadras, Hajar Heidari, SeyedAhmad SeyedAlinaghi, Fabricio Voltarelli. Levofloxacin versus Ceftriaxone and Azithromycin Combination in the Treatment of Community Acquired Pneumonia in Hospitalized Patients .Recent Pat Antiinfect Drug Discov. 2018;13(3):228-239
4. ,Farokhi R, and Mazaheri Tehrani, E. HIV prevalence and correlations in prisons in different regions of the world: a narrative review article. Open AIDS journal. Aug 2018; 12: 81–92.
5. Cristian Ascione, Arianna Sala, Elham Mazaheri-Tehrani, Simona Paulone, Beniamino Palmieri, Elisabetta Blasi and Claudio Cermelli. Herpes simplex virus 1 entrapped in Candida albicans biofilm displays decreased sensitivity to antivirals and UVA1 laser treatment. Annals of Clinical Microbiology and Antimicrobials. 2017, 16:72.
6. Mazaheri-Tehrani E, Maghsoudi. N, Shams. J, Soor. H, Motamedi. F, Atashi. H, Bode. L, Ludwig. H. Borna disease virus (BDV) infection in psychiatric patients and healthy controls in Iran. Virology Journal ,2014 Sep 3;11:161
7. Mazaheri-Tehrani E, Sala Ariana, Orsi CF, Blasi E, Cermelli C. Candida albicans biofilm can retain and release human pathogenic viruses in vitro. Virus Research 179 ,2014, 153– 160
8. Mossa Gardaneh, Yasin Panahi, Sahar Shojaei, Elham Mazaheri-Tehrani and Nader Maghsudi. Neuroprotection in Parkinson's Disease: a Multi-directional Genetic Strategy for Maximum Protection of Dopaminergic Neurons against Parkinsonian Toxicity. In: J Med Hypotheses Ideas, Oct 2010, 4(1)

9. Farzaneh Jadali, Abdollah Karimi, Fatemeh Fallah, et al and Elham Mazaheri-Tehrani. Detection of Epstein Barr Virus in pediatric Hodgkin Lymphoma in Iran by Immunohistochemistry (IHC) and In Situ Hybridization, *Cancer Therapy*, 2008, v.6, pp. 665-672.
10. Fatemeh Fallah, Gita Eslami, Mehdi Bootorabi, Bahram Kazemi, Hossein Goudarzi , Elham Mazaheri. Isolation of Chlamydia Pneumonia in Atherosclerosis Patients in Iran by PCR Method, *Gene Therapy and Molecular Biology*, 2006, v.10, pp.109-112.
11. Taremi M, Farahtaj F, Mazaheri Tehrani E, and Zali MR. Determination of Rotaviruses Groups and Electrophoretotypes which is Agents of Acute Diarrhea in Infants under five-Years Old Tehranz, Iran ( Article in Persian). *Pajhoohandeh*, 2006, 11(5):285-290.
12. Taremi M, Farahtaj F, Gachkar L, Mazaheri Tehrani E, Edalatkhah H, and Zali MR. Molecular Epidemiology and clinical features of Rotavirus Infection in Iranian Children, Abstract published in the *American Journal of Gastroenterology*, 2005 v.100, no. 1029, p. S-371.
13. Alireza Samarbafzadeh, Elham Mazaheri Tehrani, Manouchehr Makvandi, and Mahnaz Taremi. Epidemiological Aspects of Rotavirus Infection in Ahwaz, Iran. *Journal of Health Population and Nutrition*, 2005, v. 23(3), pp. 245-249.

## **Conference Presentations**

### **Oral Presentations**

1. Herpes simplex virus type 1 entrapped in candida albicans biofilm displays decreased sensitivity to antivirals. The 12th National Italian society for virology, 22-24 Sep 2014, Orvieto (TR) , Italy
2. Diversity of human rotavirus VP6, VP7 and VP4 in Tehran, Iran. The 3rd Annual Meeting of the Iranian Society for Virology, Dec 15-19 , 2006 .Tehran, Iran

### **Poster presentations**

1. Prediction and Classification Neurocognitive Impairment among HIV positive Individuals in Tehran, Iran. The 16th European AIDS Clinical Society (EACS2017). Oct 25-27, 2017, Milan, Italy
2. Candida albicans biofilm can retain and release human Herpes virus type-1 in vitro. (Investigator Award Based on the abstract score and CV score € 500) ,5th European conference on virology, Sep 11-14, 2013, Lyon, France
3. In vitro interactions between viruses and Candida biofilm. The Italian Society of Virology, Sep 17-19. 2012, Orvieto, Italy

4. Detection of Borna Disease Virus among Iranian Schizophrenia patients: Molecular and Cellular Approach. The 10th International symposium on Neuro Virology, Oct 12-16 , 2010. Milan, Italy
5. Prevalence of Borna Disease Virus markers among Iranian Bipolar Disorder patients and healthy subjects. The 8th International Conference on Bipolar Disorder, June 25-27, 2009. Pittsburgh, Pennsylvania, USA
6. Variation of spinal "mu" opioid receptor and hyperalgesia during adjuvan induced arthritis in male rats. The 12th International Pain Congress, August 2008. Glasgow, Scotland
7. Lentiviruses: Vectors for gene therapy of infectious diseases and inflammation. The Second International Symposium on Molecular Technology, Cell Cycle and Cell Death, June 26-28, 2007. Tehran, Iran.
8. The Purification of Ag60 from BCG in TB diagnosis and cancer therapy. The 8th International Conference Emerging Technologies in Drug and Gene-based Therapeutics, September 7-10, 2005, Greece.
9. Determination of Rotaviruses Groups which is Agents of Acute Diarrhea in Infants under Two-Years Old from Ahwaz, Iran. The 6th Annual Meeting of the International Epidemiology Association (Eastern Mediterranean Region), December 9-11, 2003. Ahwaz, Iran.

## **Memberships**

- Medical council of Iran , number:3301A ( specialized for Laboratory medicine)
- European AIDS Clinical Society
- European Respiratory Society

## **Arts and Leisure activity**

Fixing, repairing and evaluating antique oriental rugs and Persian carpet

Reading books and Traveling