

## Curriculum vitae

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### Personal Information

<b>First name:</b>	Elham
<b>Last name:</b>	Mousavi
<b>Birth:</b>	11th August, 1984
<b>Nationality:</b>	Iranian
<b>Degree:</b>	PhD in virology
<b>Married status:</b>	Single

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### Address Work:

Department of Medical Microbiology & Virology, Kerman University of Medical sciences, Kerman, Iran.

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### Current Positions

**Researcher**, Department of Microbiology and Virology, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran

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### Academic Education

2010-2017; **PhD in virology**, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran

2007-2010; **MSc in virology**, Iran University of Medical Sciences, Tehran, Iran

2005-2007; **BSc in laboratory of sciences**, Shahid Sadoughi University of Medical Sciences, Yazd, Iran

2003-2005; **A.S. in laboratory of sciences**, Shahrekord University of Medical Sciences, Shahrekord, Iran

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### Language skills

Persian  
English

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### Theses

		<i>Supervisor</i>
<b>MSc</b>	Incidence of Adenoviral conjunctivitis in patients Referred to the Iran University Affiliated Hospitals	Prof. M Shamsi Shahrabadi
<b>PhD</b>	Study of inhibitory effect of prevalent species of vaginal Lactobacillus on the Propagation of Herpes simplex type 1&2 in vitro	Dr A.R Samarbaf-Zadeh Prof. M Makvandi

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### RESEARCH INTERESTS

Innate immune system against viruses  
Pathogenesis of viruses  
Oncogenic viruses and cancer

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### TECHNICAL SKILLS

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#### 1.Virological Techniques

- Mammalian cell tissue culture
- Isolation & purification of Viruses
- Titration of viruses: Plaque assay, TCID<sub>50</sub>, FFA,

#### 2. 3D cell cultures

#### 3. IF Assay (immunofluorescence)

#### 4. Flowcytometry: cell isolation, apoptosis, cell cycle analysis

#### 5. Cytotoxicity assays: MTS assay, Colony and Sphere formation assay

#### 6. Cloning techniques

#### 7. Molecular Techniques:

- PCR / RT-PCR
- Real time PCR

## 8. Bioinformatics:

- Primer Design for PCR and Real time PCR
- Sequencing and phylogenic analysis

## 9. Bioinformatics Tools

- Mega6 software
- Codon Code Aligner
- Gene Runner
- CLC genomics

## 10. Bacteriological Techniques

- Bacterial culture (especially isolation & identification lactobacilli species)
- Phylogenetic analysis of 16SrDNA sequences of bacteria

## 11. Statistical skills

- SPSS
- Meta-analysis (CMA software)
- Data mining (Rapid Miner software)

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## Publications

- Samane Shakibaie, Hoomaan Joze-Majidi, Erfan Zabihi, Mahboobeh Ramezani, Saeedeh Ebrahimi, Zahra Arab-Bafrani & **Elham Mousavi\***, (2023). Development and Characterization of Graphene Oxide-Locust Bean Gum-Zinc Oxide (GO-LBG-ZnO) Nanohybrid as an Efficient and Novel Antitumor Agent against Hepatocarcinoma Cells. *Journal of polymer and the Environment*.
- Atena Gilanipour, Ali Teimoori, Seyed Alimohammad Arabzadeh, Hamid Reza Mollaie & **Elham Mousavi\***, (2023). Toll-like receptor 7 and RIG-I like receptors expression in peripheral blood mononuclear cells of naïve patients with hepatitis C. *BMC Research Notes*.
- Mahya Abbasi, Zahra Arab-Bafrani, Erfan Zabihi, Ali Mohammad Arabzadeh, Amir Babaei, **Elham Mousavi\***, (2023). Inhibitory effect of zinc oxide nanoparticles and fibrillar chitosan-zinc oxide nanostructures against herpes simplex virus infection. *The Journal of Engineering*.
- Zahra Arab-Bafrani, Erfan Zabihi, Seid Mahdi Jafari, Alireza Khoshbin-Khoshnazar, **Elham Mousavi**, Mohsen Khalili, Amir Babaei (2021). Enhanced radiotherapy efficacy of breast cancer multi cellular tumor spheroids through in-situ fabricated chitosan-zinc oxide bio-nanocomposites as radio-sensitizing agents. *International Journal of Pharmaceutics*.
- Erfan Zabihi, Zahra Arab-Bafrani, Seyyed Morteza Hoseini, **Elham Mousavi**, Amir Babaei, Mohsen Khalili, Mohammad Mostakhdem Hashemi, Naeme Javid (2021). Fabrication of nano-decorated ZnO-fibrillar chitosan exhibiting a superior performance as a promising replacement for conventional ZnO. *Carbohydrate Polymers*.

-Marziyeh Ranjbar-Mohammadi, **Elham Mousavi**, Mohammad Mostakhdem Hashemi, Mahdi Abbasian, Jahanbakhsh Asadi, Ehsan Esmaili, Mehrafarin Fesharaki, Pouyan Asadi, Zahra Arab-Bafrani (2020). Efficient co-cultivation of human fibroblast cells (HFCs) and adipose-derived stem cells (ADs) on gelatin/PLCL nanofiber. *IET Nano biotechnology*.

-Zahra Arab-Bafrani, Ali Jabbari, Mohammad Mostakhdem Hashemi, Ali Mohammad Arabzadeh, Atena Gilanipour, **Elham Mousavi\*** (2019). Identification of the crucial parameters regarding the efficacy of ribavirin therapy in Crimean–Congo hemorrhagic fever (CCHF) patients: a systematic review and meta-analysis. *Journal of Antimicrobial Chemotherapy*

-M Abbasian, **E Mousavi**, M Khalili, Z Arab-Bafrani (2019). Using of keratin substrate for enrichment of HT29 colorectal cancer stem-like cells. *Journal of Biomedical Materials Research*

-Marziyeh Ranjbar-Mohammadi, Mahdi Abbasian, **Elham Mousavi**, Zahra Arab-Bafrani (2019). Multi-cellular tumor spheroids formation of colorectal cancer cells on Gelatin/PLCL and Collagen/PLCL nanofibrous scaffolds. *European Polymer Journal*.

-Mahdi Abbasian, **Elham Mousavi**, Zahra Arab-Bafrani, Amirhosein Sahebkar (2018). The most reliable surface marker for the identification of colorectal cancer stem-like cells: A systematic review and meta-analysis. *Journal of Cellular Physiology*.

-Mahdi Abbasian, **Elham Mousavi**, Mohsen Khalili, Zahra Arab-Bafrani (2018). Using of keratin substrate for enrichment of HT29 colorectal cancer stem-like cells. *Journal of Biomedical Materials Research*.


-**Elham Mousavi**, Manochehr Makvandi, Ali Teimoori, Anjila Ataei, Shokouh Ghafari, (2018). Antiviral effects of Lactobacillus crispatus against HSV-2 in mammalian cell lines. *Journal of the Chinese Medical Association*.

### Manuscript submitted

-**Elham Mousavi**, Majid Nikobin, Ali Teimoori, Seyed Ali Mohammad Arabzadeh, Mohammad Mostakhdem Hashemi, Zahra Arab-Bafrani (2022). Investigation of Oligonucleotide Usage Variance Between SARS -related coronaviruses and common cold coronaviruses. Bioinformatics. *In Press*.

-Nastran Saadat, Ali Teimoori, Hadi Razavi, **Elham Mousavi\***, (2022). Investigation of SARS-COV-2 in the peripheral blood mononuclear cells and serum of patients with Covid-19 in Kerman, Iran. *In Press*.

-Nyosha Ahmadi, Hosein Lejmiri, Hadi Razavi, Saeedeh Ebrahimi, **Elham Mousavi\***, (2022). The presence of autoantibodies in covid-19 patient's serum and its association with activation-



induced cytidine deaminase (AID) gene expression changes in the peripheral blood mononuclear cells. *In Press*.