

Fereshte Mahdizade Valojerdi

Curriculum Vitae

Contact



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Education

[Course start date: October 1, 2014] to [date of graduation: July 15, 2019] **Ph.D. on Biophysics –Islamic Azad University Science and Research Branch** GPA: 19.28 /20

[Course start date: January 1, 2012] to date of graduation: May 10, 2014] **M.Sc. on Biophysics – Islamic Azad University Science and Research branch.** GPA: 18.41/20

[Course start date: October 1, 2008] to [date of graduation: June 1, 2012] **B.A. of Cell and Molecular Biology –Islamic Azad University Varamin-Pishva branch** GPA : 17.80/20

Field of Interested

- Cell Culture
- Cancer cells
- Drug Delivery
- Bioinformatics

Language Skills

- **English** :Fluent in all aspect

IELTS: Studying present

Exam: may 2, 2020

English EPT(English Proficiency

Test) :510

- **Persian**: Native



Honors and Awards

At College:

Ranked 1st, in terms of cumulative GPA among Ph.D , B.Sc , B.A .



Work Experiments

October 1, 2012 **Medical Laboratory Babac at Tehren**

* I have worked in the following parts: sampling blood, biochemistry, microbiology, cell and Molecular. Test Elisa learned completely and have been used in my thesis.

2017-present **Magazines**

* Collaborating in the biology journal

Thesis

- **Subject: Effect of linolenic acid (ω_3), linoleic acid (ω_6) and oleic acid (ω_9) on the structure and stability of human serum albumin (HSA).**

Advisor: Dr N. Gheibi

In this thesis, a novel efficient The interaction between Human Serum Albumin (HSA) and linolenic acid (ω_3), linoleic acid (ω_6) and oleic acid (ω_9) as an unsaturated fatty acid have been investigated by the methods of UV–VIS spectrophotometer, fluorescence and circular dichroism (CD) spectroscopy, lifetime measurements, fluorescence anisotropy measurements and Visual Molecular Dynamics (MD). 18.5/20

- **Effects of polyphenol Dalbergin on the biological changes of ionizing radiation in X-ray on the human breast carcinoma cell lines.**

Advisors: Dr B. Goliaei, Dr K. Parivar and Dr A. Nikoofar

In this work we have compared the radiosensitizing effect of Dalbergin on T47D AND MDA-MB-231 cell line. 20/20

Publications

- Journals

F. Mahdizade Valojerdi 1, B. Goliaei , K. Parivar and A. Nikoofar. **Effect of a Neoflavonoid (Dalbergin) on T47D Breast Cancer Cell Line and mRNA Levels of *p53*, *Bcl-2*, and *STAT3* Genes.** (Submitted)

F. Mahdizade Valojerdi 1, B. Goliaei , K. Parivar and A. Nikoofar. **Effects of Dalbergin enhances on the Radiosensitivity of Estrogen Receptor- Positive and Negative Breast Cancer Cells induce Apoptosis and Promotes Tumor Control in Vitro.** (To be submitted)

F. Mahdizade Valojerdi, N. Gheibi , A. Farasat , H. Shariatifar. **Study of HSA interactions with AA using spectroscopic methods revealing molecular dynamics of HSA-AA interactions.** (submitted)

F. Mahdizade Valojerdi, N. Gheibi , A. Farasat , H. Shariatifar. **Structural and thermodynamic effects of Omega-3, Omega-6 and Omega-9 fatty acids on human serum albumin (HSA) Sites by Molecular Dynamics Flexible Ligands-Protein Interactions.** (to be submitted)

- Oral

*Fereshte Mahdizade, Nematollah Gheibi. **Oleic acid binding to human serum albumin : Structure and stability analysis.** Has presented as below at the 1st congress of chemical biotechnology held on march 6-8, 2016 at NIGEB-CCERCI, Tehran. Iran.

- Poster

*Fereshte Mahdizade, Nematollah Gheibi. **Effective Human Serum Albumin on structure and stability Arachidonic acid. National Conference on Life Sciences.** March. 2013. Damghan. Iran

*Fereshte Mahdizade, Nematollah Gheibi. **Interaction of human serum albumin with linolenic acid : Stability and structural analysis. National Conference on Protein and Peptide Science from Basic to Medical and Industrial Applications.** 28-29 December 2014. Shiraz. Iran

*Fereshte Mahdizade, Nematollah Gheibi. **Investigation of the interaction between Linoleic acid and human serum albumin : Binding characteristics and structural analysis.** 13th conference on biophysical chemistry. April 2016. Ardebil. Iran.

*Fereshte Mahdizade, Nematollah Gheibi. **Effective linolenic acid, linoleic acid and oleic acid on structure and stability Human Serum Albumin.** 14th conference on biochemistry iran. 17-19 August 2016. Tehran. Iran.



Workshops

***Fereshte Mahdizade** has participated on “ A 2-day Hands-on Workshop on Cell Culture and Assessment of Cell and Cytotoxicity ”. Organized by the National Institute of Genetic Engineering and Biotechnology (NIGEB).6-7 December 2014, Tehrsn, Iran.

***Fereshte Mahdizade** has participated on “ A 3-day Hands-on Workshop on Principles of Protein Expression SDS-PAGE and Western Blotting”. Organized by the National Institute of Genetic Engineering and Biotechnology (NIGEB).17-19 May 2015, Tehrsn, Iran.



Teaching Experiences

2017 – 2018

Course Instructure: Teaching biochemistry and Biophysics, Islamic Azad University Tehran Medical Branch.

2017

Course Instructure: Teaching and Biophysics, Payame Noor university, Tehran ,Iran.

2018-Present

Course Instructure: Teaching Biophysics and Radiology, Islamic Azad University Islamshahr Branch.

2018-Present

English Lecture: Teaching Family and Friends student book, academic HADIS, Tehran., Iran



Laboratory, Bioinformatics and Computers skills

Laboratory	Technique spectrophotometr	● ● ● ● ●
	Technique Spectrophlorimetr (fluorescence)	● ● ● ● ●
	Technique Circular Dichroism (1- Far-UV-CD ,2- Near-UV-CD)	● ● ● ● ●
	Lifetime measurements (τ_f)	● ● ● ● ○
	Fluorescence anisotropy measurements	● ● ● ● ○
	Technique ELIZA	● ● ● ● ●
	Cell culture	● ● ● ● ●
	Platting Efficiency	● ● ● ● ●
	Mtt assay	● ● ● ● ●
	Radiotherapy	● ● ● ● ●
	Colony assay	● ● ● ● ●
	Real Time PCR	● ● ● ● ●
	Commet assay	● ● ● ● ●
	SDS-PAGE	● ● ● ● ○
Bioinformatics	AutoDock1-5-6	● ● ● ● ●
	Ligplus	● ● ○ ○ ○
	Discovery Studio 2016 Client	● ● ○ ○ ○
	Pymol	● ● ○ ○ ○
Computers	Micosort office	● ● ● ● ●
	Matlab	● ● ○ ○ ○
	Spss	● ● ○ ○ ○
	sigma plot	● ● ○ ○ ○



Extracurricular Activities

1. Reading books about art, literature.
 2. Volleyball: absolutely professional and I have coach degree of Federation of I.R. IRAN.
 3. Swimming: absolutely professional.
 4. playing tar.
 5. Taking a picture.
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References

[Dr. Bahram Goliaie](#)

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[Dr. Kazem Parivar](#)

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[Dr. Alireza Nikoofar](#)

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[Dr. Nematollah Gheibi](#)

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