

In the Name of God  
CURRICULUM VITAE



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**Date and place of birth :** 1354/7/1( 1974/9/1), Sabzevar, Iran  
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**ACADEMIC QUALIFICATIONS:**

**B.Sc.:** Biology 1376(1997), Kharazmi University ,Tehran, Iran.  
**M.Sc.:** Biochemistry 1379(2001), Guilan University, Rasht, Iran.  
**Ph.D:** Biochemistry 1388(2010), Science and Research Branch, Islamic Azad University , Tehran, Iran.

**POSITIONS:**

Laboratory Expert

**RESEARCH and ACADEMIC EXPERIENCES:**

**Teaching Experiences:**

2001-2018 Faculty of Sciences,Department of Biology and Chemistry,  
Hakim Sabzevari University of Sciences, Sabzevar, Iran .  
2007 Sabzevar University of Medical Siences.  
2005 Islamic Azad University.

## PAPERS

1-Reyhaneh Sariri, **Reyhaneh Sabbaghzadeh**, Forough Poumohamad, In-Vitro Antioxidant and Anti-Tyrosinase Activity of Methanol Extracts from Crocus Sativus Flowers, Pharmacologyonline, 3: 1-11, 2011.

2- **Reihaneh Sabbaghzadeh** ,The effect of temperature on the structure of insulin-like growth factor (IGF-1) and a similar study based on method of molecular dynamics and computational, Journal of Sabzevar University of Medical Sciences, Volume 20, Number 3 ,2013.

3. R. Sariri, **R. Sabbaghzadeh**, Competitive Adsorption of Proteins on Hydrogel Contact Lenses, the CLAO Journal, Vol. 27, No. 3, July 2001.

4- M. Monajjemi, **R. Sabaghzadeh**, A. R. Ilkhani and F. Mollaamin, Nano-modeling of insulin-like growth factor 1 (IGF-1) by computational methods, African Journal of Microbiology Research, Vol. 5(19), pp. 2895-2905, 23, September 2011.

5- **Sabbaghzadeh, R.**, Monajjemi, M., Mollaamin, F., & Oryan, S, The Effect of Monte Carlo, Molecular Dynamic and Langevin Dynamic Simulation and Computational Calculations on Insulin-Like Growth Factor-1 (IGF-1), J. Cell. Mol. Res., 2(2), 93-102, 2010.

6- **Reihaneh Sabbaghzadeh**, Mohsen Asadbegi, Morphological and biochemical study of peanut, European Journal of Experimental Biology, 3(6): 390-393, 2013.

7- **Reihaneh Sabbaghzadeh**, Simulation of Active Site of Choline Acetyltransferase by Computational Methods, Advances in Environmental Biology , 8(10) June 2014, Pages: 415-424.

8- **Reihaneh Sabbaghzadeh**, Botanical medicines. National Park Forschung in der schweiz (Switzerland Research Park Journal), 2013.

9- **Reihaneh Sabbaghzadeh**, Study of molecular mechanic calculation and solvent effect on peripheral and thermodynamic effects of choline acetyltransferas, Quarterly Journal of Sabzevar University of Medical Sciences, Volume 20, Number 5, Special 2014.

10- **Reihaneh Sabbaghzadeh**, Phosphotidilcholin as a new strategy in biocompatible material, African Journal of Biochemistry Research , 2013.

11- **Reihaneh Sabbaghzadeh**, Thermodynamic effects on energy changes and to compare to structural interaction in Nerve growth factor receptor protein and an enzyme of affecting learning, Quarterly Journal of Sabzevar University of Medical Sciences, Volume 21, Number 2, May & June 2014.

12- Javad Maleki., Mitra Kheirabadi., Safieh Soufian, **Reihaneh Sabaghzadeh** , Design the new virus HTLV-1 protease peptide inhibitors based on Benzene functional group by computational methods, Quarterly Journal of Sabzevar University of Medical Sciences, Volume 21, Number 4, September & October 2014.

13- **Reihaneh Sabbaghzadeh**, Rahim Golmohammadib ,The effect of Anethum graveolens L.(dill) extraction on PAPP-A protein in healthy and epileptic mice, 2015.

14- Rahim Golmohammadi, **Reihaneh Sabbaghzadeh**, Mohammad Shafi Mojadadi ,Effect of hydroalcoholic extract of Anethum graveolens leaves on the dentate gyrus of the hippocampus in the epileptic mice ,Research in Pharmaceutical Sciences,2016 .

15- Mahdi Mirzaeia, Hossein Eshghia, Maede Hasanpour, and **Reihaneh Sabbaghzadeh** ,Synthesis, characterization, and application of [1 methylpyrrolidin-2-one-SO<sub>3</sub>H]Cl and docking simulation of ligand bond complexes of cyclin-dependent kinase 2, PHOSPHORUS, SULFUR, AND SILICON ,2016.

16- Ameneh Timar, Maryam Saberi-Karimian, Hamideh Ghazizadeh, Seyed Mohammad Reza Parizadeh, **Reihaneh Sabbaghzadeh**, Maryam Emadzadeh, Fatemeh Eshaghi, Shima Tavallaie, Gordon A. Ferns, Majid Ghayour-Mobarhan Evaluation of the serum prooxidant-antioxidant balance before and after vitamin D supplementation in adolescent Iranian girls, Advances in Medical Sciences, 2018.

17- **Reihaneh Sabbaghzadeh**, Basic principles of chromatography Analysis, Online ISSN: 2588-641X,2017.

18-Behrooz Maleki, Hengameh Atharifar, Oliver Reiser, and **Reihaneh Sabbaghzadeh**, Glutathione-Coated Magnetic Nanoparticles for One-Pot Synthesis of 1,4-Dihydropyridine Derivatives, POLYCYCLIC AROMATIC COMPOUNDS, 2019.

#### *Article in conferences*

18- **Reihaneh Sabbaghzadeh** , Simulation of cholin acetyltransferase by computational methods, 13<sup>th</sup> Iranian Congress of Biochemistry and 1<sup>st</sup> symposium of Metabolic diseases,19-21 Feb 2013,Yazd, Iran.

19- **Reihaneh Sabbaghzadeh**, Ali mohammad Tazari, Narjes zamani,Mahnaz Balali,The effect of heavy elements on effective materials and amount of protein in plantago major, 13<sup>th</sup> Iranian Congress of Biochemistry and 1<sup>st</sup> symposium of Metabolic diseases,19-21 Feb 2013,Yazd, Iran.

20- **Reihaneh Sabbaghzadeh** , Effects of various concentrations of Lead(II) nitrate and buffer on alpha-tocopherol in red Cabbage, The 17<sup>th</sup> National & 5<sup>th</sup> International Iranian Biology Conference, Agust 2013,Kerman, Iran.

21- **Reihaneh Sabbaghzadeh**, Monte carlo and molecular calculations of insulin-like growth factor-1, The 16<sup>th</sup> National & 4<sup>th</sup> International Iranian Biology Conference Agust 2011,Mashhad, Iran.

22- **Reihaneh Sabbaghzadeh**, Peripheral and thermodynamics effects of IGF-1 on the ontogeny property by simulation methods of QM/MM, The 17<sup>th</sup> National & 5<sup>th</sup> International Iranian Biology Conference, Agust 2013,Kerman, Iran.

- 23- Ali mohammad Tazari, **Reihaneh Sabbaghzadeh**, Narjes zamani, Mahnaz Balali, Effects of lead on seed germination and plantago major plant physiological characteristics, The 17<sup>th</sup> National & 5<sup>th</sup> International Iranian Biology Conference, August 2013, Kerman, Iran.
- 24- Reyhaneh Sariri, **Reyhaneh Sabbaghzadeh**, The use of lecithin to reduce the absorption of synthetic surfaces, First International Congress of Biochemistry and Biophysics, Jan 2001, Tehran, Iran.
- 25- **Reyhaneh Sabbaghzadeh**, Simulation and Computation on nerve growth factor, Fourth International Congress of the Society of Interventional Pain th Annual Congress of Iranian regional anesthesia and pain, Oct 2013, Tehran, Iran.
- 26- **Reyhaneh Sabbaghzadeh**, Overview of Nanotechnology Techniques, First National Conference on Biotechnology - Science Links - Bright Future, Dec 2006, Iran.
- 27- Designing an intelligent system for the diagnosis of hepatitis B disease and its severity using support vector machine method and FCM, Iran.
- 28- **Reyhaneh Sabbaghzadeh**, Probing the interaction of human serum albumin with antitumor Pd(II) complex using molecular modeling, The 5<sup>th</sup> Iranian Conference on Bioinformatics 20-22 May 2014, Tehran university, Iran.
- 29- **Reyhaneh Sabbaghzadeh**, Simulation Some Drugs on active site Cyclin-dependent kinase 2, 4<sup>th</sup> International conference on applied research in chemistry science and biology, 2017, Tehran, Iran.
- 30- **Reyhaneh Sabbaghzadeh**, Investigating the limiting enzyme by blast method and comparing the corresponding sequences, 4<sup>th</sup> International conference on applied research in chemistry science and biology, 2017, Tehran, Iran.
- 31- **Reihaneh Sabbaghzadeh**, Mahdi Mirzaei and Hossein Eshgh, Synthesis and in silico evaluation of bis ( $\alpha$ -aminophosphonates) derivatives as potential anticancer agents, International conference research in engineering, technology, and science, 2018, Berlin, Germany.
- 32- **Reihaneh Sabbaghzadeh**, Simulation and in silico evaluation of bis ( $\alpha$ -aminophosphonates) derivatives in Computational Methods, International congress on science & knowledge, 2018, Sydney, Australia.
- 33- **Reihaneh Sabbaghzadeh**, Physicochemical Properties of analogs  $\alpha$ -Aminophosphonates Drugs Determined via Molecular Dynamics Simulation, International congress on science & knowledge, 2018, Sydney, Australia.
- 34- Nafise. Dormohammadi, **Reihaneh Sabbaghzadeh**, Evaluation of peripheral effects for gamma carboxylase effective in blood coagulation and relating proteins using QM/MM methods, The 7th Conference on Bioinformatics, 3-5 January 2018, Tehran, Iran.
- 35- **Reihaneh Sabbaghzadeh**, A DFT study of synthetic drugs aminophosphonates: HOMO, LUMO, The 15<sup>th</sup> International National Congress of Biochemistry & 6<sup>th</sup> International Congress of Biochemistry & Molecular Biology, 2018, Isfahan, Iran.

36- **Reihaneh Sabbaghzadeh** , Kinetics of binding inhibitors drugs aminophosphonates with cyclin-dependent kinase 2, The 15<sup>th</sup> International National Congress of Biochemistry & 6<sup>th</sup> International Congress of Biochemistry & Molecular Biology, 2018, Isfahan, Iran.

37- **Reihaneh Sabbaghzadeh** , Effect of *Anethum graveolens* L. (dill) Extract on the probability of Down Syndrome , The 14<sup>th</sup> International National Congress of Biochemistry & 5<sup>th</sup> International Congress of Biochemistry & Molecular Biology

38- **Reihaneh Sabbaghzadeh** , The inhibition levels of various alpha-amino-phosphonate compounds on cyclin-2 kinase enzyme , The 14<sup>th</sup> International National Congress of Biochemistry & 5<sup>th</sup> International Congress of Biochemistry & Molecular Biology,

39- **Reihaneh Sabbaghzadeh** , Molecular Dynamics Simulation of synthesized analogs  $\alpha$ -Aminophosphonates Drugs, With a peptide nucleic acid, 1<sup>st</sup> Congress of Chemical Biotechnology, 2016, Tehran, Iran.

#### **BOOKS**

- 1- Collections test questions Biochemistry
- 2- Biochemistry Laboratory of manual

#### **Research projects**

- 1- Peripheral and thermodynamics effects of neuropeptide Y on the memory property by simulation methods of QM/MM.
- 2- Effect of heavy elements on effective materials and amount of protein in *Plantago major*.
- 3- Effect of heavy elements on effective materials and amount of protein in *Anethum graveolens*
- 4- The effects of *Anethum graveolens* plant on quantitative determination PAPP-A protein
- 5- Investigation of the association of the potential value of a genetic variant R219K in ATP-binding cassette, sub-family A as a biomarker with respect to the risk of developing cardiovascular diseases and simulation molecular dynamics

#### **AWARDS AND HONORS:**

Reward several letters of appreciation from the Teaching Assistant Hakim

Sabzevari university for higher office, monitoring and evaluation .

#### **RESEARCH INTERESTS:**

- Drug bioavailability by simulation methods of QM/MM
- Various aspects of drug analysis in vivo by simulation methods of QM/MM
- Evaluation of regional medicinal plants antioxidant activity.