

IDENTIFICATION:

Name: Fateme Azimi

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EDUCATION:

- ❖ 2015-2021, **Ph.D.** of medicinal chemistry, School of Pharmacy and Pharmaceutical Sciences, Isfahan University of Medical Sciences, Iran.

Thesis title: Design, synthesis and cytotoxic evaluation of some novel potential tubulin inhibitors and investigation of ligand-protein interaction by *in silico* methods

- ❖ 2009-20012, **M.Sc.** Analytical Chemistry, Department of Chemistry, University of Tehran, Iran.

Thesis title: Electrochemical spectroscopic investigations on the interaction of an some complex with DNA and their analytical applications such as biosensor.

- ❖ 2005-2009, **B.Sc.** Chemistry, Department of Chemistry, University of Tehran, Iran.

SKILLS AND EXPERIENCE:

- ❖ Synthesis
- ❖ Drug Design
- ❖ Computation Based Drug Design
- ❖ Cell Culture
- ❖ Electrochemiluminescence
- ❖ Spectroscopy: FTIR/IR, Raman, UV-Vis, Fluorescence
- ❖ Electrochemical Instruments
- ❖ QSAR
- ❖ Pharmacophore Modeling
- ❖ Molecular Docking
- ❖ Virtual Screening
- ❖ Computational Drug Design
- ❖ Homology Modeling
- ❖ Molecular Dynamics Simulation

PUBLICATIONS:

1. Ganjali M, Alizadeh T, Azimi F, Larjani B, Faridbod F, Norouzi P. Bio-mimetic ion imprinted polymer based potentiometric mercury sensor composed of nano-materials. *Int J Electrochem Sci.* 2011;6(11):5200-8.
2. Ilkhani H, Ganjali MR, Arvand M, Hejazi MS, Azimi F, Norouzi P. Electrochemical spectroscopic investigations on the interaction of an ytterbium complex with DNA and their analytical applications such as biosensor. *International Journal of Biological Macromolecules.* 2011;49(5):1117-23.
3. بابایی الهه، فریدبد فرنوش، نسلی انسیه و همکاران. تداخلات فارماکوکینتیک بین آتورواستاتین و پیوگلیتازون در بیماران مبتلا به دیابت نوع ۲. *مجله دیابت و متابولیسم ایران.* ۲۰۱۱؛۱۰(۴):۲۶-۴۱۹.
4. Bahramian F, Fazlinia A, Mansoor SS, Ghashang M, Azimi F, Biregan MN. Preparation of 3, 4, 5-substituted furan-2 (5 H)-ones using HY Zeolite nano-powder as an efficient catalyst. *Research on Chemical Intermediates.* 2016;42(8):6501-10.
5. Ghashang M, Taghrir H, Biregan MN, Heydari N, Azimi F. Preparation of novel 2-(2-oxo-2 H-chromen-4-yl)-3-arylthiazolidin-4-one derivatives using an efficient ionic liquid catalyst. *Journal of Sulfur Chemistry.* 2016;37(1):61-9.
6. Ghashang M, Mansoor SS, Mohammad Shafiee MR, Kargar M, Najafi Biregan M, Azimi F, et al. Green chemistry preparation of MgO nanopowders: efficient catalyst for the synthesis of thiochromeno [4, 3-b] pyran and thiopyrano [4, 3-b] pyran derivatives. *Journal of Sulfur Chemistry.* 2016;37(4):377-90.
7. Azimi F, Ghasemi JB, Saghaei L, Hassanzadeh F, Mahdavi M, Sadeghi-Aliabadi H, et al. Identification of essential 2D and 3D chemical features for discovery of the novel tubulin polymerization inhibitors. *Current topics in medicinal chemistry.* 2019;19(13):1092-120.
8. Azimi F, Ghasemi JB, Azizian H, Najafi M, Faramarzi MA, Saghaei L, et al. Design and synthesis of novel pyrazole-phenyl semicarbazone derivatives as potential α -glucosidase inhibitor: Kinetics and molecular dynamics simulation study. *International Journal of Biological Macromolecules.* 2021;166:1082-95.
9. Azimi F, Azizian H, Najafi M, Hassanzadeh F, Sadeghi-Aliabadi H, Ghasemi JB, et al. Design and synthesis of novel quinazolinone-pyrazole derivatives as potential α -glucosidase inhibitors: Structure-activity relationship, molecular modeling and kinetic study. *Bioorganic Chemistry.* 2021; 114:105-127.
10. Azimi F, Azizian H, Najafi M, Saghaei L, Ghasemi JB, Sadeghi-aliabadi H, et al. Design and synthesis of novel pyrazole-benzofuran hybrids: in vitro α -glucosidase inhibitory activity, kinetic and molecular modeling study. *Scientific report.* 2021.
11. Hassanzadeh M, Hassanzadeh F, Azimi F, Design, synthesis, and bio-evaluation of new isoindoline-1, 3-dione derivatives as possible inhibitors of acetylcholinesterase. *Research in Pharmaceutical Sciences.* 2021;16(5):482.
12. Synthesis and in vitro cytotoxic effects of 1,3-diphenyl-1H-pyrazole - barbituric acid derivatives as potential anti-breast cancer agents (Under Review).

SEMINAR:

- ❖ Application of Modified Nanoparticle Carbon Paste Electrode for Simultaneous Voltammetric Determination of Atenolol and Amlodipine in Biological and Pharmaceutical Samples. 20th Iranian Pharmacy Student's Seminar, 2017, Tehran, Iran.
- ❖ New Nanocomposite-Based Voltammetric Sensor for Determination of Atenolol and Amlodipine. 15th Nanotechnology Conference, Tehran, Iran.

RESEARCH GRANTS:

- ❖ Design and Synthesis of Novel Hybrid Diphenyl Pyrazole-Thiosemicarbazide Derivatives as New Tyrosinase Inhibitors, Isfahan University of Medical Sciences under Grant Number 1400442.
- ❖ Design, Synthesis and Cytotoxic Evaluation of Some New Tubulin Inhibitors, Molecular Docking and 3D-QSAR Study, Iran National Science Foundation (INSF) under Grant Number 95848864.
- ❖ C₅-Curcuminoid-Pyrazole Based Molecular Hybrids as Novel Antitubulin Agents: Design, Synthesis, Biological Investigation and Docking Studies, Student Research Committee, Isfahan University of Medical Sciences under Grant Number 198200.
- ❖ Design, synthesis, molecular modeling and anti-hyperglycemic evaluation of pyrazole-2-aryl quinazolinone hybrids as α -glycosidase inhibitor, Isfahan University of Medical Sciences under Grant Number 198283.
- ❖ Design and synthesis of novel pyrazole-benzofuran hybrids: in vitro α -glucosidase inhibitory activity, kinetic and molecular modeling study, Isfahan University of Medical Sciences under Grant Number 199071.