

Nahid Ahmadi

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Research Interests

Synthesis, Analysis, Drug design, SAR study, Anticancer Drug Design

EDUCATION

Ph.D., Medicinal Chemistry

Shahid Beheshti university of Medical Sciences,	Tehran, Iran
Department of Pharmaceutical Chemistry	2016-2022

Thesis: Design, Synthesis and Molecular Modeling studies of new imidazole derivatives and related analogs as estrogen receptor modulators (SERMs) and selective COX-2 inhibitors and studying the effect of their cytotoxic agents

Advisor: Dr. Afshin Zarghi

M.S., Medicinal Chemistry

Islamic Azad University of Medical Sciences	Tehran, Iran
School of Pharmaceutical Chemistry	2013-2015

Thesis: Preparation, quality control and biodistribution assessment of ^{186}Re -Chitosan and ^{188}Re -Chitosan as the agents for radiosynovectomy

Advisor: Dr. Hasan Usefnia

B.S., Applied Chemistry

University of Tehran,	Tehran, Iran
College of Science, School of Chemistry	2007-2012

RESEARCH EXPERIENCE

❖ Shahid Beheshti university of Medical Sciences, Department of Pharmaceutical Chemistry

- Design and synthesis of four groups of compounds as COX-2 inhibitors and SERMs
- COX enzyme inhibition activity of compounds
- Evaluation of cytotoxicity of synthesized compounds
- *In vivo* analgesic effects of tested compounds
- Antiplatelet avaluation
- Molecular modeling and docking studies
- Labeling and HPLC analyzing of PSMA-tricarboxyl
- citicoline assay by HPLC

❖ Islamic Azad University of Medical Sciences, School of Pharmaceutical Chemistry

- Labeling of chitosan using Re-186 and Re-188 radiochemical purity and biodistribution of the radiolabeled chitosan was studied

Teaching Experiences:

Teaching Medicinal chemistry and General chemistry laboratory at “Islamic Azad University of Pharmaceutical Sciences/Faculty of Medicinal Chemistry” (2023-2024)

Work Experiences:

Researcher at Sanjesh Daru Razi Co (2020-2021)

Researcher at Nikan Pharmed Razi Co (2020-2023)

PUBLICATIONS

[1]. Ahmadi, N.; Khoramjouy, M.; Amidi, S.; Faizi, M.; Zarghi, A., Design, Synthesis, In vitro and In vivo Evaluation of New Imidazo [1, 2-a] pyridine Derivatives as Cyclooxygenase-2 Inhibitors. *Anti-cancer Agents in Medicinal Chemistry* **2024**.

[2]. Ahmadi, N.; Shahhosseini, S.; Shirazi, F. H.; Farnam, G.; Zarghi, A., Synthesis, Structural Characterization, and Cytotoxic Activity of New Benzo [d] imidazo [2, 1-b] thiazole Derivatives Against MCF-7 Breast Cancer Cells. *Iranian Journal of Pharmaceutical Research: IJPR* **2022**, *21* (1).

- [3]. Ahmadi, N.; Yousefnia, H.; Bahrami-Samani, A.; Zolghadri, S.; Alirezapour, B.; Ghazi, F. M., Development of 186/188Re-Chitosan as an Effective Therapeutic Agent for Rheumatoid Arthritis. *Current Radiopharmaceuticals* **2021**, *14* (2), 154-160.
- [4]. Jahantigh, H.; Ahmadi, N.; Lovreglio, P.; Stufano, A.; Enayatkhani, M.; Shahbazi, B.; Ahmadi, K., Repurposing antiviral drugs against HTLV-1 protease by molecular docking and molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics* **2023**, *41* (11), 5057-5066.
- [5]. Jahantigh, H. R.; Ahmadi, N.; Shahbazi, B.; Lovreglio, P.; Habibi, M.; Stufano, A.; Gouklani, H.; Ahmadi, K., Evaluation of the dual effects of antiviral drugs on SARS-CoV-2 receptors and the ACE2 receptor using structure-based virtual screening and molecular dynamics simulation. *Journal of Biomolecular Structure and Dynamics* **2023**, *41* (13), 6051-6073.
- [6]. Ahmadi, K.; Hasaniazad, M.; Kalani, M.; Faezi, S.; Ahmadi, N.; Enayatkhani, M.; Mahdavi, M.; Pouladfar, G., Comparative study of the immune responses to the HMS-based fusion protein and capsule-based conjugated molecules as vaccine candidates in a mouse model of Staphylococcus aureus systemic infection. *Microbial Pathogenesis* **2021**, *150*, 104656.
- [7]. Enayatkhani, M.; Hasaniazad, M.; Faezi, S.; Gouklani, H.; Davoodian, P.; Ahmadi, N.; Einakian, M. A.; Karmostaji, A.; Ahmadi, K., Reverse vaccinology approach to design a novel multi-epitope vaccine candidate against COVID-19: an in silico study. *Journal of Biomolecular Structure and Dynamics* **2021**, *39* (8), 2857-2872.
- [8]. Ahmadi, K.; Gharibi, Z.; Davoodian, P.; Gouklani, H.; Hassaniazad, M.; Ahmadi, N., The Effect of Smoking on the Increase of Infectious Diseases. *Tobacco and Health* **2022**, *1* (2), 100-106.
- [9]. Salehi Sh; Mottaghi-dastjerdi N; Shahbazi B; Ahmadi N; Ghorbani A; Rezaee-Rad M; Yazdani F., *Exploring Esophageal Cancer Pathogenesis: A Systems Biology Approach Through Gene Network and Pathway Analysis. DARU Journal of Pharmaceutical Sciences.* (submitted)

PRESENTATIONS

- Ahmadi N, Yousefnia H, Bahrami-Samani A. Development of 186/188Re-Chitosan as an Effective Therapeutic Agent for Rheumatoid Arthritis. 14th Iranian Pharmaceutical Sciences Congress. 2015
- Ahmadi N, Shahoseini S, Zarghi A. Synthesis, Structural Characterization, and Cytotoxic Activity of New Benzo [d] imidazo [2, 1-b] thiazole Derivatives Against MCF-7 Breast Cancer Cells. 5st international congress on pharmacy updates. 2022

SKILLS

- Synthesis and Analyzing of Chemical and Pharmaceutical Compounds
- Working with HPLC, Mass, GC, IR and NMR instruments
- Docking methods (Vina, MaestroS(chrodinger), AutoDockTools, ...)

- Chemdraw, Pymol, HyperChem, Discovery Studio, LIGPLOT, Gaussian, ... softwares
- QSAR studying
- Virtual screening, LigandScout software
- NMR visualizing software (Topspine, MestReNovao)
- Prism-GraphPad, Endnote, Mendeley Software

WORKSHOPS AND COURSES

- TOPSPIN NMR software workshop (central research laboratories of shahid beheshti university of medical sciences)
- XRD Workshop
- Chromatography (GC-HPLC-CE) online course (Nano education website)
- Catalysts and nanocatalysts

Reference professors:

Professor Afshin Zarghi

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Zarghi@sbmu.ac.ir; 0098218773521-5

Professor Seyed Abbas tabatabai

School of Pharmacy, Shahid Beheshti University of Medical Sciences
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Professor Nima Naderi

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