

## **Mahsa Azami Movahed**

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### **EDUCATION**

#### **Ph.D. in Medicinal Chemistry, Shahid Beheshti University of Medical Sciences, 2018**

Dissertation: *Design, Synthesis & Molecular Modeling Studies of New imidazopyridines & Related Analogs & their Biological Evaluation as Selective COX-2 Inhibitors, Selective Estrogen Receptor Modulators (SERMs) and Cytotoxic Agents*

Dissertation Advisors: Afshin Zarghi, Ph.D., Soraya Shahhosseini, Ph.D.

#### **Pharm.D., Shahid Beheshti, University of Medical Sciences, 2012**

Dissertation: *Design and Synthesis of New imidazo[1,2-a]pyridine Derivatives as Selective COX-2 Inhibitors*

Dissertation Advisor: Afshin Zarghi, Ph.D.

### **TEACHING EXPERIENCE**

#### **Instructor, Shahid Beheshti University of Medical Sciences, 2018 till now**

School of Pharmacy

Course: Practical organic chemistry 1 & 2, Practical instrumental analysis, Medical information systems (Ph.D. students)

#### **Teacher assistant, Shahid Beheshti University of Medical Sciences, 2018 till now**

School of Pharmacy

Course: Organic chemistry 1 & 2

#### **Instructor, Alborz University of Medical Sciences, 2019**

School of Pharmacy

Courses: Organic chemistry 1 & 2, medicinal chemistry 1& 2

#### **Instructor, Islamic Azad University of Pharmaceutical Sciences Branch, 2018**

School of Pharmacy

Course: Medicinal Chemistry 3

**Teacher assistant, Shahid Beheshti University of Medical Sciences, 2018 & 2020**

School of Pharmacy

Course: Medicinal chemistry 2

**Teacher assistant, School of Pharmacy, Shahid Beheshti University of Medical Sciences, 2018**

School of Pharmacy

Course: Organic Chemistry

## **PUBLICATIONS**

Rajabi, S.; Noori, S., Ashrafi, M. R., **Azami Movahed, M.**, Farzaneh, S.; Zarghi, A., Naringenin enhances anti-proliferation effect of 1-ferrocenyl-3-(4-methylsulfonylphenyl) propen-1-one on two different cells via targeting calmodulin signaling pathway. *Mol. Biol. Rep.*, **2022** (E-pub ahead of print).

Rahimifard, M.; Hagi-Aminjan, H.; Pourahmad Jaktaji, R.; Bagheri, Z.; **Azami Movahed, M.**; Zarghi, A.; Pourahmad, J., Assessment of cytotoxic effects of new derivatives of pyrazino[1,2-a] benzimidazole on isolated human glioblastoma cells and mitochondria. *Life Sci.*, **2021**, 286.

Karimi, N., Vahabpour Roudsari, R., **Azami Movahed, M.**, Hajimahdi, Z., Zarghi, A., 4-(1-Benzyl-1H-benzo[d]imidazol-2-yl)-4-oxo-2-butenoic Acid Derivatives Design, Synthesis and Anti-HIV-1 Activity, *IJPR*, **2021**, 20(1), 408-417.

Salimi, A., Aghvami, M., **Azami Movahed, M.**, Zarghi, A., Pourahmad, J., Evaluation of Cytotoxic Potentials of Novel Cyclooxygenase 2 Inhibitor against ALL Lymphocytes and Normal Lymphocytes and Its Anticancer Effect. *Cancer Investigation*, **2020**, 38(8-9), 463–475.

Arefi, H.; Naderi, N.; Irani Shemirani, A. B.; Kiani Falavarjani, M., **Azami Movahed, M.**, Zarghi, A., Design, Synthesis, and Biological Evaluation of New 1,4-Diarylazetid-2-one Derivatives ( $\beta$ -Lactams) as Selective Cyclooxygenase-2 Inhibitors. *Arch Pharm*, **2020**, 353(3).

**Azami Movahed, M.**; Daraei, B.; Shahosseini, S., Esfahanizadeh, M., Zarghi, A., Design, Synthesis and Biological Evaluation of New Pyrazino[1,2-a]benzimidazole Derivatives as Selective Cyclooxygenase (COX-2) inhibitors. *Arch Pharm*, **2018**, 352(2).

Shahrasbi, M.; **Azami Movahed, M.**, Ghorban Dadras, O.; Daraei, B.; Zarghi, A., Design, synthesis and biological evaluation of new imidazo[2,1-b]thiazole derivatives as selective COX-2 inhibitors. *IJPR*, **2018**, 17(4), 1288-1296.

**Azami Movahed, M.**; Daraei, B.; Zarghi, A., Synthesis and Biological Evaluation of New imidazo[1,2-a]pyridine Derivatives as Selective COX-2 Inhibitors. *Lett. Drug Des. Discovery*, **2016**, 13, 793-799.

## **PRESENTATIONS**

Pardis Kondori, **Mahsa Azami Movahed**, Afshin Zarghi. "Design and Synthesis of New Imidazole Derivatives as selective COX-2 Inhibitors.", *23<sup>rd</sup> Iranian Pharmacy Students Seminar (IPSS)*, 2021.

Mohammadsaeed Kordi, **Mahsa Azami Movahed**, Afshin Zarghi. "Design and Synthesis of New Pyrrole Derivatives as Selective COX-2 Inhibitors." *23<sup>rd</sup> Iranian Pharmacy Students Seminar (IPSS)*, 2021.

Mahshad Mohammadizade, **Mahsa Azami Movahed**, Afshin Zarghi. "Design and Synthesis of New Diaryl-3,4-dihydropyrimidine Derivatives as Selective COX-2 Inhibitors." *23<sup>rd</sup> Iranian Pharmacy Students Seminar (IPSS)*, 2021.

Sarah Haghazari, **Mahsa Azami Movahed**, Afshin Zarghi. "Design and Synthesis of New 1,4-Diarylimidazol-2-ones as COX-2 Inhibitors." *16<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC)*, 2019.

Ali Ostadrahimi, **Mahsa Azami Movahed**, Afshin Zarghi. "Design and Synthesis of New 1,4-Diarylimidazoles as Selective COX-2 Inhibitors." *16<sup>th</sup> Iranian Pharmaceutical Sciences Congress (IPSC)*, 2019.

**Mahsa Azami Movahed**, Afshin Zarghi, Bahram Daraei. "Design and Synthesis and Molecular modeling study of new pyrazinobenzimidazole derivatives as selective COX-2 inhibitors." *15<sup>th</sup> Iranian pharmaceutical Science Congress (IPSC)*, 2017.

**Mahsa Azami Movahed**, Afshin Zarghi. "Design and synthesis of new imidazopyridine derivatives as selective COX-2 inhibitors." *13<sup>th</sup> Iranian pharmaceutical Science Congress (IPSC)*, 2012.

### **AWARDS AND HONORS**

Ranked as the top student of Ph.D. courses, School of Pharmacy, Shahid Beheshti University of Medical Sciences (2017)

Ranked as a top student in the comprehensive exam, School of Pharmacy, Shahid Beheshti University of Medical Sciences (2014)

1<sup>st</sup> place in the Ph.D. entrance exam of Shahid Beheshti University of Medical Science (2012)

### **PROFESSIONAL MEMBERSHIPS**

Iran Pharmacists Association

### **RELEVANT SKILLS**

Design, Synthesis and Biological Evaluation of COX-2 inhibitors

Design, Synthesis and Biological Evaluation of Anti-cancers

Molecular Modeling and Docking to Study Drug-Target Interactions