

Curriculum Vitae

Hassan Seradj

Shiraz University of Medical Sciences
School of Pharmacy
Shiraz 71345-1583
Iran

Phone: +98 713 2424128 (ext. 267)
E-mail: serajh@sums.ac.ir

Born: March 22, 1976

Academic Positions:

2021 - present Associate Professor, Department of Pharmacognosy, School of Pharmacy,
Shiraz University of Medical Sciences, Shiraz, Iran

2009 - 2021 Assistant Professor, Department of Pharmacognosy, School of Pharmacy,
Shiraz University of Medical Sciences, Shiraz, Iran

Summer 2010 & Winter 2012 Visiting Scientist, Department of Biochemistry and Molecular Biology, State
University of New York Upstate Medical University, Syracuse, New York,
USA

Education:

September 2003- December 2008 Ph.D. Organic and Medicinal Chemistry, University of Wisconsin-Madison,
USA

June 2001- July 2003 M.S. Organic Chemistry, Ball State University, Muncie, Indiana, USA

August 1994- May 2000 Pharm.D., Shiraz University of Medical Sciences, Iran

Research Experience:

Summer 2010 and January-April 2012 Visiting Scientist, State University of New York Upstate Medical University,
Syracuse, New York, USA
Synthetic retinoids as pharmacological chaperones for the stabilization of mutant
opsin proteins

September 2003- December 2008 Doctoral Research, University of Wisconsin-Madison
Chemistry of marine natural products: towards the total synthesis of bryostatin 1

September 2001- July 2003 Graduate Research, Ball State University
Synthesis of 6-substituted lavendamycin analogs as novel antitumor agents

September 1998- January 2000 Undergraduate Research, Shiraz University of Medical Sciences
New applications of *N*-bromosuccinimide (NBS) in organic synthesis

Awards:

Junior Faculty Research Award, Shiraz University of Medical Sciences, Iran, 2017
Faculty Teaching Award, Shiraz University of Medical Sciences, Iran, 2012
Visiting Researcher Fellowship, State University of New York Research Foundation, 2010 & 2012
Chemistry Department Travel Grant, University of Wisconsin-Madison, USA, 2007
Excellence in Research Award, Department of Chemistry, Ball State University, USA, 2003
Top Student Award, Faculty of Pharmacy, Shiraz University of Medical Sciences, Iran, 2000

Selected Publications:

Shima Hashemi, Amir Reza Jassbi, Nasrollah Erfani, Hassan Seradj, Two new cytotoxic ursane triterpenoids from the aerial parts of *Salvia urmiensis*, *Fitoterapia* **2021**, 154, 105030.

M. Gholampour, A. Sakhteman, S. Pirhadi, H. Seradj, In silico design of novel diamino-quinoline-5,8-dione derivatives as putative inhibitors of NAD(P)H:Quinone Oxidoreductase 1 based on docking studies and molecular dynamics simulations, *Journal of Molecular Structure* **2021**, 129906.

Gholampour, M., Seradj, H., Pirhadi, S., Khoshneviszadeh, M., Novel 2-amino-1,4-naphthoquinone hybrids: Design, synthesis, cytotoxicity evaluation and in silico studies, *Bioorganic and Medicinal Chemistry* **2020**, 28 (21), 115718.

M. Fereidoonzhad, S. M. H. Tabaei, A. Sakhteman, H. Seradj, Z. Faghieh, Z. Faghieh, A. Mojaddami, B. Sadeghian, Z. Rezaei, Design, Synthesis, Molecular Docking, Biological Evaluations and QSAR Studies of Novel Dichloroacetate Analogues as Anticancer Agents, *Journal of Molecular Structure* **2020**, 128689.

Hajar Owji, Ali Hajiebrahimi, Hassan Seradj, Shiva Hemmati, Identification and functional prediction of stress responsive AP2/ERF transcription factors in *Brassica napus* by genome-wide analysis, *Computational Biology and Chemistry* **2017**, 71, 32-56.

Hemmati, S.; Seradj, H., Justicidin B: A promising bioactive lignin, *Molecules* **2016**, 21:820.

Ebrahimi, N.; Rasoul-Amini, S.; Ebrahiminezhad, A.; Ghasemi, Y.; Gholami, A.; Seradj, H., Comparative study on characteristics and cytotoxicity of bifunctional magnetic-silver nanostructures: Synthesized using three different reducing agents, *Acta Metallurgica Sinica* **2016**, 29, 326-334.

Faridi, P.; Seradj, H.; Mohammadi-Samani, S.; Vossoughi, M.; Mohagheghzadeh, A.; Roozbeh, J., Randomized and double-blinded clinical trial of the safety and calcium kidney stone dissolving efficacy of *Lapis judaicus*, *Journal of Ethnopharmacology* **2014**, 156, 82-87.

Faridi, P.; Seradj, H.; Mohammadi-Samani, S.; Roozbeh, J.; Mohagheghzadeh, A., Elemental Analysis, Physicochemical Characterization and Lithontriptic Properties of *Lapis judaicus*, *Pharmacognosy Journal* **2013**, 5, 94-96.

Cai, W.; Hassani, M.; Karki, R.; Walter, E. D.; Koelsch, K. H.; Seradj, H.; Lineswala, J. P.; Mirzaei, H.; York, J. S.; Olang, F.; Sedighi, M.; Lucas, J. S.; Eads, T. J.; Rose, A. S.; Charkhazrin, S.; Hermann, N. G.; Beall, H. D.; Behforouz, M., Synthesis, Metabolism and In Vitro Cytotoxicity Studies of Novel Lavendamycin Antitumor Agents, *Bioorganic and Medicinal Chemistry* **2010**, 18, 1899-1909.

Hassani, M.; Cai, W.; Holley, D. C.; Lineswala, J. P.; Maharjan, B. R.; Ebrahimian, G. R.; Seradj, H.; Stocksdale, M. G.; Mohammadi, F.; Marvin, C. C.; Gerdes, J. M.; Beall, H. D.; Behforouz, M., Novel Lavendamycin Analogues as Antitumor Agents: Synthesis, in Vitro Cytotoxicity, Structure-Metabolism, and Computational Molecular Modeling Studies with NAD(P)H:Quinone Oxidoreductase 1, *Journal of Medicinal Chemistry* **2005**, 48, 7733-7749.

Voight, E. A.; Seradj, H.; Roethle, P. A.; Burke, S. D., Synthesis of the Bryostatin 1 Northern Hemisphere (C1-C16) via Desymmetrization by Ketalization/Ring-Closing Metathesis, *Organic Letters* **2004**, 6, 4045-4048.

Seradj, H.; Cai, W.; Erasga, N. O.; Chenault, D. V.; Knuckles, K. A.; Ragains, J. R.; Behforouz, M., Total Synthesis of Novel 6-Substituted Lavendamycin Antitumor Agents, *Organic Letters* **2004**, 6, 473-476.

Karimi, B.; Seradj, H.; Maleki, J., Highly Efficient and Chemoselective Interchange of 1,3-Oxathioacetals and Dithioacetals to Acetals Promoted by *N*-Halosuccinimides, *Tetrahedron* **2002**, 58, 4513-4516.

Karimi, B.; Seradj, H., Zirconium Tetrachloride (ZrCl₄) as an Efficient and Chemoselective Catalyst for Conversion of Carbonyl Compounds to 1,3-Oxathiolanes, *Synlett* **2000**, 805-806.

Karimi, B.; Ebrahimian, G. R.; Seradj, H., Efficient and Chemoselective Conversion of Carbonyl Compounds to 1,3-Dioxanes Catalyzed with *N*-Bromosuccinimide under Almost Neutral Reaction Conditions, *Organic Letters* **1999**, 1, 1737-1739.

Presentation at International Conferences:

Gholampour, Maryam; Seradj, Hassan; Khoshneviszadeh, Mehdi, Development of novel amino-naphthoquinone hybrids as potential topoisomerase II inhibitors, *XXII International Conference on Organic Synthesis*, Florence, Italy, September 16-21, **2018**.

Seradj, Hassan; Voight, Eric A.; Burke, Steven D., Toward the Total Synthesis of Bryostatin 1: Synthesis of the Northern Fragment (C1-C16), *233rd American Chemical Society National Meeting*, Chicago, IL, United States, March 25-29, **2007**.

Seradj, Hassan; Voight, Eric A.; Roethle, Paul A.; Phan, Hoa A.; Burke, Steven D., Towards the Total Synthesis of Bryostatin 1: Synthesis of the Northern Fragment (C1-C16), *37th Great Lakes Regional Meeting of the American Chemical Society*, Milwaukee, WI, United States, May 31-June 2, **2006**.

Seradj, Hassan; Cai, Wen; Behforouz, Mohammad, *Synthesis of Lavendamycin Analogs as Antitumor Agents*, *Indiana Local American Chemical Society Meeting*, Butler University, Indianapolis, IN, United States, October **2002**.