

Curriculum Vita

Personal Information

Name: **Hamid-Reza Adhami**
Nationality: Iranian
Position: Assistant Professor
Department of Pharmacognosy,
Faculty of Pharmacy,
Tehran University of Medical Sciences
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Education

- Post-doctoral fellowship: May 2013-May 2014. Department of Pharmaceutical Sciences, Tshwane University of Technology, Pretoria, South Africa. Work neat: Isolation of Bio-Markers from South African Medicinal Plants by High-Performance Counter-Current Chromatography.
- Post-doctoral training: 2012, Brunel Institute for Bioengineering, Brunel University, London, UK. Project: Isolation of major polar compounds from Olive Oil by High Performance Counter Current Chromatography.
- Ph.D.: 2012, Department of Pharmacognosy, University of Vienna, Vienna, Austria
Thesis: Bioassay guided isolation of compounds with acetylcholinesterase inhibitory activity from selected medicinal plants used in Iranian traditional medicine
Supervisor: Prof. Liselotte Krenn
- Post graduate in Homeopathy: 2003, American University of Hawaii, Tehran branch, Iran
- Pharm. D: 2000, Faculty of Pharmacy, Tehran University of Medical Sciences, Tehran, Iran
Thesis: Synthesis of substituted 1-Arryl-2-(alkylthio) pyrrolo [2, 3-d] imidazole-5-carboxylic acid as angiotensin II receptor antagonists.
Supervisor: Prof. Abbas Shafiee
- Diploma: 1992, High school diploma of natural sciences, Nikan high school, Tehran, Iran

Teaching Subjects:

Medicinal plants, Pharmacognosy, Chromatography

Research Interests

Isolation, purification and characterization of bio-active secondary metabolites from natural sources.

Reviewing

- *Journal of Ethnopharmacology*
- *South African Journal of Botany*
- *Food Chemistry*
- *Natural product research*
- *Phytochemistry Letters*
- *Bioorganic & Medicinal Chemistry*
- *Journal of Medicinal Plant Research*
- *Molecules*
- *Journal of Medicinal Plants*
- *African Journal of Biotechnology*
- *Phytochemical analysis*

Publications

Papers

- 25- Khatami Z, Herdlinger S, Sarkhail P, Zehl M, KaehligH, Schuster D, Adhami HR. Isolation and Characterization of Acetylcholinesterase Inhibitors from *Piper longum* and Binding Mode Predictions. *Planta Medica*. 2020; 86: 1118-1124.
- 24- Sharafi-Badr P, **Adhami HR**. Can Marine Products Improve Alzheimer's Disease: a review. *Journal of Sciences, Islamic Republic of Iran*. 2020; 31: 321-335.
- 23- Sibanyoni MN, Chaudhary SK, Chen W, **Adhami HR**, Combrinck S, Maharaj V, Schuster, Viljoen, A. Isolation, in vitro evaluation and molecular docking of acetylcholinesterase inhibitors from South African Amaryllidaceae. *Fitoterapia* 2020; 146: 104650.
- 22- Ardeshirlarijani E, Namazi N, Jalili R, Saeedi M, Imanparast S, **Adhami HR**, Faramarzi MA, Ayati MH, Mahdavi M, Larijani B. Potential Anti-Obesity Effects of some Medicinal Herb: In vitro α -Amylase, α -Glucosidase and Lipase Inhibitory Activity. *International Biological and Biomedical Journal* 2019; 5: 1-8.
- 21- Khodaei M, Amanzadeh Y, Faramarzi MA, Pirali-Hamedani M, **Adhami HR**. Cholinesterase Inhibitory, Anti-oxidant and Anti-tyrosinase Activities of Three Iranian Species of *Dracocephalum*. *Research Journal of Pharmacognosy* 2019; 6: 25-31.
- 20- Almasi F, Mohammadipanah F, Adhami HR, Hamedi J. Introduction of marine-derived *Streptomyces* sp. UTMC 1334 as a source of pyrrole derivatives with anti-acetylcholinesterase activity. *Journal of Applied Microbiology* 2018; 125: 1370-1382.
- 19- Kanama SK, Viljoen AM, Kamatou GPP, Chen W, Sandasi M, **Adhami HR**, Van Wyk B. Simultaneous quantification of anthrones and chromones in *Aloe ferox* ("Cape aloes") using UHPLC–MS. *Phytochemistry letters* 2015; 13: 85-90.
- 18- **Adhami HR**, Zehl M, Dangl C, Dorfmeister D, Stadler M, Urban E, Ignatova S,

- Hewitson P, Krenn L. Preparative isolation of major phenolic compounds from extra virgin olive oil by HPLC. *Food Chemistry* 2015; 170: 154-159.
- 17- **Adhami HR**, Fitz V, Lubich A, Kaehlig H, Zehl M, Krenn L. Acetylcholinesterase inhibitors from galbanum, the oleo gum-resin of *Ferula gummosa* Boiss. *Phytochemistry letters* 2014. (<http://dx.doi.org/10.1016/j.phytol.2014.08.023>)
 - 16- **Adhami HR**, Viljoen AM. Isolation of bio-markers from the leaf exudate of *Aloe ferox* (aloe bitters) by high performance counter-current chromatography. *Phytochemistry letters* 2015; 11: 321-325.
 - 15- **Adhami HR**, Lutz J, Kaehlig H, Zehl M, Krenn L. Compounds from gum ammoniacum with acetylcholinesterase inhibitory activity. *Scientia Pharmaceutica* 2013; 81(3): 793-805.
 - 14- Braunberger C, Zehl M, Conrad J, Fischer S, **Adhami HR**, Beifuss U, Krenn L. Polar phenolics in *Drosera peltata* – Qualitative and quantitative determination by LC-DAD, LC-NMR, NMR and LC-MS. *Journal of Chromatography B* 2013; 932: 111- 116.
 - 13- **Adhami HR**, Scherer U, Kaehlig H, Hettich T, Schlotterbeck G, Reich E, Krenn L. Combination of bioautography with HPTLC-MS/NMR: a fast identification of acetylcholinesterase inhibitors from galbanum. *Phytochemical Analysis* 2013; 24(4): 395-400.
 - 12- **Adhami HR**, Linder T, Kaehlig H, Schuster D, Zehl M, Krenn L. Catechol alkenyls from *Semecarpus anacardium*: acetylcholinesterase inhibition and binding mode predictions. *Journal of Ethnopharmacology* 2012; 139(1): 142-148.
 - 11- **Adhami HR**, Farsam H, Krenn L. Screening of medicinal plants from Iranian traditional medicine for acetylcholinesterase inhibition. *Phytotherapy Research* 2011; 25(8): 1148-1152.
 - 10- **Adhami HR**, Shamloo DS. Ethics in complementary and alternative medicine. *Iranian Journal of Medical Ethics* 2008; 1(2): 69-72.
 - 9- **Adhami HR**, Mesgarpour B, Farsam H. Herbal medicine in Iran. *HerbalGram* 2007; 74: 34-43.
 - 8- Khalaj A, Shokraiee K, Seyfi P, Mesgarpour B, **Adhami HR**. Qualitative assessment of the views of graduate and undergraduate students of the faculty of pharmacy about pharmaceutical research in Iran. *Hakim Research Journal* 2006; 9(1): 45-51.
 - 7- Mohammadi MR, Mesgarpour B, Daliri Hampa A, Izadian ES, **Adhami HR**. Consuming and prescribing psychotherapeutic medications in elderly. *Rehabilitation* 2005; 59-69.
 - 6- Shafiee A, Shahbazi Mojarrad J, Jalili MA, **Adhami HR**, Hadizadeh F. Synthesis of substituted pyrrolo [2, 3-d] imidazole-5-carboxylates and substituted pyrrolo [3, 2-d] imidazole-5-carboxylates. *Journal of Heterocyclic Chemistry* 2002; 39: 367-373.
 - 5- Mesgarpour B, **Adhami HR**, Amanlou M. Grapefruit juice effects. *Journal of Medicinal Plants* 2002; 1(1): 47-62.
 - 4- Farsad F, Mesgarpour B, **Adhami HR**. Pharmacotherapy in attention deficit hyperactivity disorder (ADHD). *Razi* 2002;145 (1):21-32

- 3- Mesgarpour B, **Adhami HR**, Khani M and Farzanegan ZMMH. Herbal medicine: what physician should know. *Razi* 1999; 62(10): 45-53.
- 2- **Adhami HR**. Drug therapy of men's infertility. *Aban* 1999; 41(5):21-23.
- 1- **Adhami HR**. What we should know about drugs (monthly-continued articles). *Daneshmand Magazine*. 1998- 2005 (105 articles).

Book

Adhami HR, Shamlou S.D. Translation of "WHO Traditional Medicine Strategy" into Persian. *National Research Center for Medical Sciences of Iran publication*, 2007.

Congresses and Presentations

- 27- Sharafi-Badr P, Adhami HR, Jahanbin K, Ghahremani MH, Monsef-Esfahani HR. Cytotoxic activities of new water-soluble polysaccharides from *Ornithogalum bungei*, The 67th Annual Meeting of GA. September 1-5, 2019. Innsbruck, Austria. (poster)
- 26- Abedi AH, Adhami HR, Mirmasoumi M, Amin M. Effect of *Bacillus subtilis* on morphology and bioactive compounds of saffron, The 66th Annual Meeting of GA jointly with the 11th STCM. Aug. 26-29, 2018. Shanghai, China. (oral)
- 25- **Adhami HR**. Knowledge of Traditional Medicine toward enhancement of cognitive performance, 6th Edition of International Conference on Pharmacognosy and Medicinal Plants. April 16-17, 2018. Amsterdam, Netherlands. (oral)
- 24- Khodaei M, Amanzadeh Y, Faramarzi MA, **Adhami HR**. Cholinesterase inhibitory, anti-oxidant and anti-tyrosinase activities of three Iranian species of *Dracocephalum*, 21th International Congress (Phytopharm 2017). July 2-5, 2017. Graz, Austria. (poster)
- 23- Khatami Z, Sarkhail P, Adhami HR. Isolation and characterization of acetylcholinesterase inhibitors from *Piper longum* L., 9th Joint Natural Products Conference. July 23-27, 2016. Copenhagen, Denmark. (poster)
- 22- **Adhami HR**, Mncwangi N, Viljoen AM. Counter-current chromatography, a fast method for isolation of bio-markers from South African medicinal plants, 19th Indigenous Plant Use Forum conference. July 4-6, 2016. Port St. Johns, South Africa. (oral)
- 21- **Adhami HR**, Kaehlig H, Zehl M, et al. Acetylcholinesterase inhibitors from medicinal plants used in Iranian traditional medicine, *The International Congress on Aromatic and Medicinal Plants*. April 29- June 1, 2016. Coimbra, Portugal. (oral)
- 20- **Adhami HR**. Counter-current chromatography, a fast method for isolation of natural compounds. 3rd International Conference on Pharmaceutical Sciences, May 29-31, 2015. Tbilisi, Georgia. (oral)
- 19- **Adhami HR**, Viljoen AM. Rapid isolation of major bio-markers from saffron by HPLC. *Natural Products and Drug Discovery - Future Perspectives*, Nov. 13-14, 2014. Vienna, Austria. (oral)

- 18- **Adhami HR**, Mncwangi N, Viljoen AM. Isolation of Bio-Markers from South African Medicinal Plants by High-Performance Counter-Current Chromatography. *8th international conference on counter-current chromatography*, July 23-25, 2014. London, UK. (poster)
- 17- **Adhami HR**, Viljoen AM. Isolation of bio-markers from the leaf exudate of *Aloe ferox* (aloe bitters) by HPCCC. *9th International Symposium on Chromatography of Natural Products*, May 26-29, 2014. Lublin, Poland. (oral)
- 16- **Adhami HR**, Ignatova S, Dorfmeister D, Stadler M, Zehl M, Urban E, Krenn L. Isolation of the major phenolics from olive oil by high performance counter current chromatography. *17th international congress "Phytopharm"*, July 8-10, 2013. Vienna, Austria. (poster)
- 15- **Adhami HR**, Lutz J, Kaehlig H, Zehl M, Krenn L. Compounds from gum ammoniacum with acetylcholinesterase inhibitory activity. *13th Congress of International Society of Ethnopharmacology*. Sep. 2-6, 2012. Graz, Austria. (poster)
- 14- **Adhami HR**, Scherer U, Kaehlig H, Hettich T, Schlotterbeck G, Reich E, Krenn L. Combination of bioautography with HPTLC-MS/NMR: a fast identification of acetylcholinesterase inhibitors from galbanum. *International Congress on Natural Products Research*. July 28 – Aug. 1, 2012. New York City, USA. (poster)
- 13- **Adhami HR**, Kaehlig H, Zehl M, Krenn L. Spiro-sesquiterpenoidic chroman- diones from gum ammoniacum with acetylcholinesterase inhibitory activity. *16th international congress "Phytopharm"*, July 9-11, 2012. St. Petersburg, Russia. (oral)
- 12- **Adhami HR**, Linder T, Kaehlig H, Zehl M, Schuster D, Krenn L. Binding mode predictions of catechol alkenyls for acetylcholinesterase inhibition. *15th International Congress "Phytopharm"*. July 25-27, 2011, Nuremburg, Germany. (poster)
- 11- **Adhami HR**, Kaehlig H, Zehl M, Krenn L. Isolation of two compounds from *Semecarpus anacardium* L. with acetylcholinesterase inhibitory activity. *The International Congress on Aromatic and Medicinal Plants*. April 13-15, 2011. Cagliari, Italy. (oral)
- 10- Adhami f, Nabilzadeh A, **Adhami HR**. Formation of thiadiazolo benzamide cyclization in thioxothiourea. XXIVth European Colloquium on heterocyclic chemistry. Aug. 23-27, 2011. Vienna, Austria. (poster)
- 9- **Adhami HR**, Farsam H, Krenn L. Screening of selected medicinal plants used in Iranian Traditional Medicine for acetylcholinesterase inhibition. *51st Annual Meeting of the American Society of Pharmacognosy and the Phytochemical Society of North America*. July 10-14, 2010. St. Petersburg, FL, USA. (poster)
- 8- **Adhami HR**, Shamlou DS, Mesgarpour B, Tehrani SAH. The Trend of Homeopathy Articles Indexed in PubMed and ISI: Web of Science. *63rd Congress of the Liga Medicorum Homeopathica Internationalis*. May 20-25, 2008. Oostende, Belgium. (oral)
- 7- Shamloo DS, **Adhami HR**. Complementary and Alternative Medicine and Ethical Consideration. *The 2nd International Congress of Medical Ethics*. April 16-18, 2008. Tehran, Iran. (poster)

- 6- **Adhami HR**, Farsam H. A Glance to Herbal Medicines in Prehistoric Time on Iran. *6th International Conference on Traditional and Complementary Medicine and the 3rd International Congress on Traditional Medicine & Materia Medica*. July 17-20, 2007. Kuala Lumpur, Malaysia. (poster)
- 5- **Adhami HR**, Mesgarpour B, Farsam H. Situation of herbal medicine in Iran: Training, Research and Products. *International Congress and 53rd Annual Meeting of the Society for Medical Plant Research (GA)*. August 21-25, 2005. Florence, Italy. (poster)
- 4- **Adhami HR**, S Shamloo D. Approach of Holistic Medicine to Human Illness and Health. *First Conference on Dialogue between Science & Religion*. May 2-5, 2005. Tehran, Iran. (oral)
- 3- **Mesgarpour B**, **Adhami HR**, Mohammadi MR. Evidence based dietary supplement therapy for attention deficit/hyperactivity disorder (ADHD). *The 1st Gulf Conference on Mental Health*. September 8-10, 2003. Kuwait City, Kuwait. (oral)
- 2- **Shafiee A**, and **Adhami HR**. Synthesis of substituted pyrrolo [2, 3-d] imidazole-5-carboxylates. *The 6th International Conference on Heteroatom Chemistry*. June 22-27, 2001. Lodz, Poland. (oral)
- 1- **Adhami HR**, Mesgarpour B, Haji Akhondi A. Analysis of essential oil from *Proveskia abortanoides* L. *The 8th Iranian Seminar of Organic Chemistry*. May 16-18, 2000. Kashan, Iran. (poster)

Awards

- Second prize of Innovation Competition, Tshwane University of Technology, Pretoria, South Africa, 2013.
- Young researchers grant for ICNPR, Society for Medicinal Plant and Natural Product Research, USA, 2012.
- Abroad research grant (Switzerland), University of Vienna, Austria, 2011.
- Poster prize, 15th International Congress of Phytopharm, Germany, 2011.
- Scholarship award for PhD study, University of Vienna, Austria, 2009.
- Third prize in Medical Science, 5th National Youth Kharazmi Festival, Iran, 2003.
- Finalist of 1st High School Chemistry Olympiad in Iran, 1991.

Techniques

Thin layer chromatography (TLC), instrumental high performance thin layer chromatography (HPTLC), column chromatography, vacuum liquid chromatography (VLC), solid phase extraction (SPE), size exclusive chromatography, high performance Liquid chromatography (HPLC), high performance counter current chromatography (HPCCC), TLC-MS

Language

Persian (native), English (fluent), German (basic), Arabic (intermediate)

Workshops and Trainings

- Counter-current chromatography; 2014, Brunel University, London, UK.
- Chemometrics; 2013, Tshwane University of Technology, Pretoria, South Africa.
- Plant Metabolomics; 2012, Leiden University, Leiden, the Netherlands.
- Cellular and Molecular Methods in Medical Sciences Research; 2007, Tehran University of Medical Sciences, Tehran-Iran.
- Scientific searching in Medline/PubMed; 2007, Tehran University of Medical Sciences, Tehran-Iran.
- Priority Setting in Pharmaceutical Researches; 2007, Pharmaceutical Science Research Network, Tehran-Iran.
- Scientific Writing; 2005, National Research Center for Medical Sciences of Iran, Tehran, Iran.
- Strategic plan; 2004, National Research Center for Medical Sciences of Iran, Tehran, Iran.

Position Held

- Vice Dean for International Affairs, Faculty of Pharmacy, Tehran University of Medical Sciences (2018-present)
- Executive Director, Deputy of International Affairs, Faculty of Pharmacy, Tehran University of Medical Sciences (2014-present)
- Admission manager of Pharmaceutical Incubator, Tehran University of Medical Sciences (2005-2007)
- Executive manager of Pharmaceutical Research Network, Deputy of Research and Technology, Ministry of Health and Medical Education (2004-2007)
- Secretary of Complementary and Alternative Medicine Division, National Research Center for Medical Sciences of Iran (2004-2005)
- Executive manager of Pharmaceutical section, Rey City health net, Tehran University of Medical Sciences, (2004)
- Director of Hasan Abad health center, Tehran University of Medical Sciences (2001-2004)
- Pharmacist of Hasan Abad health center, Rey City health net, Tehran University of Medical Sciences, (2001- 2004)
- Technical responsible of Isatis company (herbal products), (1997-1998)

Work Experience

- University Assistant, Department of Pharmacognosy, University of Vienna (2012)
- Lecturer in Homeopathic Pharmacy, Azad University (2004- 2010)

- Member of Central Executive Committee, Vaccination of Measles & Rubella (MR), Rey City, Tehran, Iran (2001-2003)