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## Hossein Nazemiyeh, (PharmD, PhD)

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### Education

PharmD: 1989, in Pharmacy, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz, Iran.

PhD: 1998, in Pharmacognosy, from: above mentioned address

Post-Doc:2005, in Bioactivity screening of Natural products, from: School of Pharmacy, Robert Gordon University, Aberdeen, Scotland

### Position held

- 1991-1998: Instructor in Pharmacognosy
- 1999-2005: Assistant Professor of Pharmacognosy
- 2005-2010: Associate Professor of Pharmacognosy
- 2010: Professor of Pharmacognosy

### Teaching experience

Phytochemistry, Pharmacognosy, Medicinal Botany, Advanced Biochemistry, Plant Cell Culture, 1&2 D-NMR, Separation and Purification of Natural Products

### Administrative experiences



- Deputy Dean, Administrative & Financial Affairs of Faculty of Pharmacy (1998-2004)
- Deputy Dean, Research Affairs of Faculty of Pharmacy (2006-2008)
- Deputy Dean, Research Affairs of Research Center for Pharmaceutical Nanotechnology (2011-2012)
- Head of Herbarium of Faculty of Pharmacy (since 2011)

### **Professional membership**

- Editorial Board of: BioImpacts; Pharmaceutical Sciences journals
- Member of: National Pharmacognosy Board (2001-2012)

### **Research Experiences**

- Isolation and structure elucidation of secondary metabolites by means of 1D & 2D NMR, Mass, IR and UV spectroscopy.
- Investigation on Traditional and Folk Medicine of Azarbaidjan province-Iran.
- Bioassay guided isolation and identification of cytotoxic and antitumor compounds.



- Bioassay guided isolation and identification of antimicrobial and anti-protozoal natural products.
- Taxonomy of medicinal plants of Azarbaijan province.
- Method development in HPLC analysis of secondary metabolites

### Grant

- Anti-inflammatory and anti-leukocyte accumulation effects of Stachys inflata in carrageenan and formalin-induced paw oedema in the rat.
- Study on polyphenols of *Crataegus spp.* growing in Maragheh and Urmieh.
- Effects of hydroalcoholic extract of *Crataegus meyeri* A.Pojark on rat cardiovascular system.
- Phytochemical study on *Onopordon acantium* and *Smyrniopsis aucheri* seeds and evaluation of their bioactivities
- Formulation of the glycyrrhizin into creams and evaluation of its in-vitro releases from cream base.
- Processing of *Silybum marianum* extracts growing in Iran and evaluation of their value for drug production.
- Phytochemical study on *Thymus trancaucasica* and *Scorzonera veratrifolia*.
- Phytochemical study on *Dorema glabrum* and *Ferula owina* and evaluation of their bioactivities.

### Selected Publications

Morteza Eskandani, Jaleh Barar, Jafar Ezzati Nazhad Dolatabadi, Hamed Hamishehkar, Hossein Nazemiyeh: *Formulation, characterization and geno/cytotoxicity studies of galbanic acid-loaded solid lipid nanoparticles.* Pharmaceutical Biology 04/2015; DOI:10.3109/13880209.2014.991836

Vala Kafil, Morteza Eskandani, Yadollah Omid, Hossein Nazemiyeh, Jaleh Barar: *Abietane diterpenoid of Salvia Sahendica Boiss and Buhse potently inhibits MCF-7 breast carcinoma cells by suppression of PI3K/AKT pathway.* RSC Advances 02/2015; 5(23). DOI:10.1039/C4RA14905J

Seyedeh Neda Madani Mousavi, Abbas Delazar, Hossein Nazemiyeh, Laleh Khodaie: *Biological Activity and Phytochemical Study of Scutellaria platystegia.* Iranian journal of pharmaceutical research (IJPR) 01/2015; 14(1):215-23.



- Morteza Eskandani, Elmira Dadizadeh, Hamed Hamishehkar, Hossein Nazemiyeh, Jaleh Barar: *Geno/cytotoxicity and Apoptotic Properties of Phenolic Compounds from the Seeds of Dorema Glabrum Fisch.* CA. 12/2014; 4(4):191-198. DOI:10.15171/bi.2014.019
- Morteza Eskandani, Jalal Abdolalizadeh, Hamed Hamishehkar, Hossein Nazemiyeh, Jaleh Barar: *Galbanic acid inhibits HIF-1 $\alpha$  expression via EGFR/HIF-1 $\alpha$  pathway in cancer cells.* Fitoterapia 12/2014; 101. DOI:10.1016/j.fitote.2014.12.003
- Sanaz Hamedeyazdan, Simin Sharifi, Hossein Nazemiyeh, Fatemeh Fathiazad: *Evaluating Antiproliferative and Antioxidant Activity of Marrubium crassidens.*
- Khadijeh Zare, Ali Movafeghi, Sayed Abolghasem Mohammadi, Solmaz Asnaashari, Hossein Nazemiyeh: *New Phenolics from Linum mucronatum subsp. orientale.* 09/2014; 4(3):117-22. DOI:10.15171/bi.2014.004
- Mohammadali Torbati, Hossein Nazemiyeh, Farzaneh Lotfipour, Mahboob Nemati, Solmaz Asnaashari, Fatemeh Fathiazad: *Chemical composition and in vitro antioxidant and antibacterial activity of Heracleum transcaucasicum and Heracleum anisactis roots essential oil.* 05/2014; 4(2):69-74. DOI:10.5681/bi.2014.004
- Morteza Eskandani, Hossein Nazemiyeh: *Self-reporter Shikonin-Act-Loaded Solid Lipid Nanoparticle: Formulation, Physicochemical Characterization and Geno/Cytotoxicity Evaluation..* European journal of pharmaceutical sciences: official journal of the European Federation for Pharmaceutical Sciences 04/2014; DOI:10.1016/j.ejps.2014.04.009
- Morteza Eskandani, Hossein Nazemiyeh: *Self-reporter shikonin-Act-loaded solid lipid nanoparticle: Formulation, physicochemical characterization and geno/cytotoxicity evaluation.*
- Laleh Khodaei, Abbas Delazar, Hossein Nazemiyeh, Solmaz Asnaashari, Lutfun Nahar, Satyajit Dey Sarker: *Composition of the Volatile Oils of the Aerial Parts of Pedicularis sibthorpii and P. wilhelmsiana Growing in Iran.* Journal of essential oil-bearing plants JEOP 03/2013; 15(3):352-356. DOI:10.1080/0972060X.2012.10644058

- Mohammadali Torbati, Hossein Nazemiyeh, Farzaneh Lotfipour, Solmaz Asnaashari, Mahboob Nemati, Fatemeh Fathiazad: *Composition and Antibacterial Activity of Heracleum Transcaucasicum and Heracleum Anisactis Aerial Parts Essential Oil..* Advanced Pharmaceutical Bulletin 01/2013; 3(2):415-418. DOI:10.5681/apb.2013.066
- Laleh Khodaie, Abbas Delazar, Farzane Lotfipour, Hossein Nazemiyeh, Solmaz Asnaashari, Sedighe B. Moghadam, Lutfun Nahar, Satyajit D. Sarker: *Phytochemistry and bioactivity of Pedicularis sibthorpii growing in Iran.* Revista Brasileira de Farmacognosia 12/2012; 22(6):1268-1275. DOI:10.1590/S0102-695X2012005000107
- Somayeh Naghiloo, Ali Movafeghi, Abbas Delazar, Hossein Nazemiyeh, Solmaz Asnaashari, Mohammad Reza Dadpour: *Ontogenetic Variation of Total Phenolics and Antioxidant Activity in Roots, Leaves and Flowers of Astragalus compactus Lam. (Fabaceae)..* 01/2012; 2(2):105-9. DOI:10.5681/bi.2012.015
- S. Naghiloo, A. Movafeghi, A. Delazar, H. Nazemiyeh, S. Asnaashari, M.R. Dadpour: *Ontogenetic variation of volatiles and antioxidant activity in leaves of astragalus compactus lam. (fabaceae).* EXCLI Journal 01/2012; 11:436-443.
- Laleh Khodaie, Sedigheh Bamdad, Abbas Delazar, Hossein Nazemiyeh: *Antioxidant, total phenol and flavonoid contents of two pedicularis L. Species from eastern azerbaijan, iran..* 01/2012; 2(1):43-57. DOI:10.5681/bi.2012.006
- Laleh Khodaie, Abbas Delazar, Farzaneh Lotfipour, Hossein Nazemiyeh: *Antioxidant and Antimicrobial activity of Pedicularis sibthorpii Boiss. And Pedicularis wilhelmsiana Fisch ex..* Advanced Pharmaceutical Bulletin 01/2012; 2(1):89-92. DOI:10.5681/apb.2012.012
- Laleh Khodaie, Sedigheh Bamdad, Abbas Delazar, Hossein Nazemiyeh: *Antioxidant, Total Phenol and Flavonoid Contents of Two Pedicularis L. Species from Eastern Azerbaijan, Iran.*
- F.H. Afshar, A. Delazar, H. Nazemiyeh, S. Esnaashari, S.B. Moghadam: *Comparison of the total phenol, flavonoid contents and antioxidant activity of methanolic extracts of artemisia spicigera and A. splendens growing in Iran.*
- Fariba H. Afshar, Abbas Delazar, Omar Janneh, Hossein Nazemiyeh, Ardalan Pasdaran, Lutfun Nahar, Satyajit D. Sarker: *Evaluation of antimalarial, free-*



*radical-scavenging and insecticidal activities of Artemisia scoparia and A. Spicigera, Asteraceae.* Revista Brasileira de Farmacognosia 12/2011; 21(6):986-990.  
DOI:10.1590/S0102-695X2011005000144

Mahdi Mojarrab, Abbas Delazar, Sadeighe Bamdad Moghadam, Hossein Nazemiyeh, Lutfun Nahar, Yashodharan Kumarasamy, Solmaz Asnaashari, Abbas Hadjiakhoondi, Satyajit Dey Sarker: *Armenin and Isoarmenin - Two Prenylated Coumarins from the Aerial Parts of Artemisia armeniaca.* Chemistry & Biodiversity 11/2011; 8(11):2097-103. DOI:10.1002/cbdv.201000284

Kh Zare, M Khosrowshahli, H Nazemiyeh, A Movafeghi, A Motallebi Azar, Y Omid: *Callus culture of Echium italicum L. towards production of a shikonin derivative..* Natural product research 09/2011; 25(16):1480-7.  
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Solmaz Asnaashari, Elmira Dadizadeh, Amir Hossein Talebpour, Morteza Eskandani, Hossein Nazemiyeh: *Free Radical Scavenging Potential and Essential Oil Composition of the Dorema glabrum Fisch. C.A. Mey Roots from Iran..* 01/2011; 1(4):241-4. DOI:10.5681/bi.2011.035

Hossein Nazemiyeh, Elham Mohajjel Kazemi, Khadijeh Zare, Malakeh Jodari, Lutfun Nahar, Satyajit Dey Sarker: *Free radical scavengers from the aerial parts of Euphorbia petiolata..* Journal of Natural Medicines 04/2010; 64(2):187-90.  
DOI:10.1007/s11418-009-0382-0

Mohammad-Reza Rashidi, Hossein Nazemiyeh: *Inhibitory effects of flavonoids on molybdenum hydroxylases activity..* Expert Opinion on Drug Metabolism & Toxicology 02/2010; 6(2):133-52. DOI:10.1517/17425250903426164

Delazar Abbas, NAZIFI Ehsan, MOVAFEGHI Ali, Nazemiyeh Hossein, HEMMATI Salar, Nahar Lutfun, Satyajit D Sarker: *Analyses of phytosterols and free radical scavengers in the bulbs of Ornithogalum cuspidatum Bertol.*

Ghobad Mohammadi, Mohammad Barzegar-Jalali, Hadi Valizadeh, Hossein Nazemiyeh, Azim Barzegar-Jalali, Mohammad Reza Siah Shadbad, Khosro Adibkia, Masoud Zare: *Reciprocal powered time model for release kinetic analysis of ibuprofen solid dispersions in oleaster powder, microcrystalline cellulose and crospovidone..* Journal of Pharmacy and Pharmaceutical Sciences 01/2010; 13(2):152-61.

- Malvika Abichandani, Lutfun Nahar, Poonam Singh, Rohit Chitnis, H Nazemiyeh, A Delazar, S D Sarker: *ANTIBACTERIAL AND FREE-RADICAL-SCAVENGING PROPERTIES OF STACHYS SCHTSCHEGLEEVII (LAMIACEAE)*. Archives of Biological Sciences 01/2010; 62(4). DOI:10.2298/ABS1004941A
- Ozlem Demirkiran, Gülaâti Topâu, Fatemeh Bahadori, Mehmet Ay, Hossein Nazemiyeh, Iqbal Choudhary: *Two New Phenylpropanoid Glycosides from the Leaves and Flowers of Erica arborea*. Helvetica Chimica Acta 01/2010; 93. DOI:10.1002/hlca.200800379
- Seyed Mehdi Razavi, Saber Zahri, Hossein Nazemiyeh, Gholamreza Zarrini, Sariyeh Mohammadi, Mohammad-Amin Abolghassemi-Fakhri: *A furanocoumarin from Prangos uloptera roots, biological effects..* Natural product research 11/2009; 23(16):1522-7. DOI:10.1080/14786410802691909
- Seyed Mehdi Razavi, Hossein Nazemiyeh, Abbas Delazar, Solmaz Asnaashari, Rogaieh Hajiboland, Satyajit D Sarker, Yadollah Omid: *Chemical variation of the essential oil of Prangos uloptera DC. at different stages of growth*. Natural product research 08/2009; 25(7):663-8. DOI:10.1080/14786410802270811
- Alireza Garjani, Arash Afroozian, Hossein Nazemiyeh, Moslem Najafi, Ali Kharazmkia, Nasrin Maleki-Dizaji: *Protective effects of hydroalcoholic extract from rhizomes of Cynodon dactylon (L.) Pers. on compensated right heart failure in rats*. BMC Complementary and Alternative Medicine 08/2009; 9:28. DOI:10.1186/1472-6882-9-28
- AF Garjani, A Afroozian, H Nazemiyeh, M Najafi, N Maleki-Dizaji: *Effects of total extract from rhizomes of Cynodon dactylon (L.) Pers. on compensated right heart failure in rats*. Planta Medica 07/2009; 75(09). DOI:10.1055/s-0029-1234859
- N Maleki-Dizaji, M Hashemi, H Nazemiyeh, N Sattarnejad Jahdi: *A double-blind cross over study comparing Achillea wilhelmsii with mefenamic acid for the treatment of primary dysmenorrhea*. Planta Medica 07/2009; 75(09). DOI:10.1055/s-0029-1234829
- Seyed Mehdi Razavi, Hossein Nazemiyeh, Gholamreza Zarrini, Solmaz Asna-Asharii, Gholamreza Dehghan: *Chemical composition and antimicrobial activity*

*of essential oil of Prangos ferulaceae (L.) Lindl from Iran. Natural product research* 06/2009; 24(6):530-3. DOI:10.1080/14786410802379539

Seyed Mehdi Razavi, Saber Zahri, Gholamreza Zarrini, Hossein Nazemiyeh, Sariyeh Mohammadi: *Biological activity of quercetin-3-O-glucoside, a known plant flavonoid.. Bioorganicheskaia khimiia* 05/2009; 35(3):414-6. DOI:10.1134/S1068162009030133

Nazemiyeh Hossein, Seyed M. Razavi, Delazar Abbas, Asnaashari Solmaz, Nazanin S. Khoi, Daniali Samira, Nahar Lutfun, Satyajit D Sarker: *Distribution Profile of Volatile Constituents in Different Parts of Astrodaucus orientalis (L.) Drude.*

Hossein Nazemiyeh, Abbas Delazar, Nasrin Movahedin, Malake Jodari, Yousef Imani, Mohammed-Ali Ghahramani, Lutfun Nahar, Satyajit D. Sarker: *Free radical scavengers from the aerial parts of Grammosciadium platycarpum Boiss. & Hausskn. (Apiaceae) and GC-MS analysis of the essential oils from its fruits. Revista Brasileira de Farmacognosia* 01/2009; 19(4). DOI:10.1590/S0102-695X2009000600021

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Seyed M. Razavi, Hossein Nazemiyeh, Abbas Delazar, Rogaieh Hajiboland, M. Mukhlesur Rahman, Simon Gibbons, Lutfun Nahar, Satyajit D. Sarker: *Coumarins from the roots of Prangos uloptera. Phytochemistry Letters* 11/2008; 1(3):159-162. DOI:10.1016/j.phytol.2008.07.009

Nasrin Maleki-Dizaji, Hossein Nazemiyeh, Narges Maddah, Fariba Mehmani, Alireza Garjani: *Screening of extracts and fractions from aerial parts of Stachys schtschegleevii Sosn. for anti-inflammatory activities.. Pakistan journal of pharmaceutical sciences* 11/2008; 21(4):338-43.

Abbas Delazar, Araz Sabzevari, Mahdi Mojarrab, Hossein Nazemiyeh, Solmaz Esnaashari, Lutfun Nahar, Seied Mehdi Razavi, Satyajit Dey Sarker: *Free-radical-scavenging principles from Phlomis caucasica. Journal of Natural Medicines* 10/2008; 62(4):464-466. DOI:10.1007/s11418-008-0255-y



Ali Nokhodchi, Hossein Nazemiyeh, Afagh Khodaparast, Tarifeh Sorkh-Shahan, Hadi Valizadeh, J L Ford: *An in vitro evaluation of fenugreek mucilage as a potential excipient for oral controlled-release matrix tablet..* Drug Development and Industrial Pharmacy 04/2008; 34(3):323-9.

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Moslem Najafi, Hossein Nazemiyeh, Alireza Garjani, Afshin Gharakhani, Hamed Ghavimi: *Effects of hydroalcoholic extract of Cynodon dactylon (L.) pers. on ischemia/reperfusion-induced arrhythmias.* Journal of Molecular and Cellular Cardiology 04/2008; 44(4):791-791. DOI:10.1016/j.yjmcc.2008.02.190

Hossein Nazemiyeh, M Mukhlesur Rahman, Simon Gibbons, Lutfun Nahar, Abbas Delazar, Mohammed-Ali Ghahramani, Amir-Hossein Talebpour, Satyajit D Sarker: *Assessment of the antibacterial activity of phenylethanoid glycosides from Phlomis lanceolata against multiple-drug-resistant strains of Staphylococcus aureus..* Journal of Natural Medicines 02/2008; 62(1):91-5.

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Hossein Nazemiyeh, Fatemeh Bahadori, Abbas Delazar, Mehmet Ay, Gülacti Topçu, Lutfun Nahar, Runner R T Majinda, Satyajit D Sarker: *Antioxidant phenolic compounds from the leaves of Erica Arborea (Ericaceae).* Natural product research 02/2008; 22(16):1385-92. DOI:10.1080/14786410701824007

NAZIFI Ehsan, Delazar Abbas, MOVAFEGHI Ali, HEMMATI Salar, Nazemiyeh Hossein, Nahar Lutfun, Satyajit D Sarker: *GC-MS Analysis of the Dichloromethane Extract of the Bulbs of Ornithogalum cuspidatum Bert. (Family: Liliaceae) from Iran.*

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Mohammad Shoeb, Stephen M MacManus, Yashodharan Kumarasamy, Marcel Jaspars, Lutfun Nahar, Paul Kong Thoo-Lin, Hossein Nazemiyeh, Satyajit D Sarker: *Americanin, a bioactive dibenzylbutyrolactone lignan, from the seeds of Centaurea americana*. *Phytochemistry* 12/2006; 67(21):2370-5.

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A Nokhodchi, H Nazemiyeh, T Ghafourian, D Hassan-Zadeh, H Valizadeh, L A S Bahary: *The effect of glycyrrhizin on the release rate and skin penetration of diclofenac sodium from topical formulations*. *Il Farmaco* 12/2002; 57(11):883-8.

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Khadijeh Zare, Hossein Nazemiyeh, Ali Movafeghi, Mahmood Khosrowshahli, Alireza Motallebi-Azar, Mohammadreza Dadpour, Yadollah Omid: *Bioprocess engineering of Echium italicum L.: induction of shikonin and alkannin derivatives by two-liquid-phase suspension cultures.* Plant Cell Tissue and Organ Culture 100(2):157-164.