

Curriculum Vitae **Maryam Hamzeloo-Moghadam**

Full Professor, Department of Traditional Pharmacy, School of Traditional Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2010- Present).

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Education

2003-2008: Ph.D. of Pharmacognosy, Department of Pharmacognosy, School of Pharmacy, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2007: Practicum Program: School of Chemistry, UNSW, Sydney, Australia.

1996-2001: Pharm. D. Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran.

Research interests

- Evaluating the cytotoxic activity and apoptotic induction of natural products
- Isolation and structure determination of natural bioactive compounds
- Formulating traditional medicine (natural/herbal) products

Administrative duties

- Deputy of Education, School of Traditional Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2022- present).
- Head of the Department of Traditional Pharmacy, School of Traditional medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2018- present).
- Editor-in-Chief, Research Journal of Pharmacognosy (RJP), Official Journal of the Iranian Society of Pharmacognosy (2016-present)
- Associate editor, Research Journal of Pharmacognosy (RJP), Official Journal of the Iranian Society of Pharmacognosy (2014-2016)
- Director of International Affairs, School of Traditional Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2015- 2022)
- Education Development Office Director, School of Traditional Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2010- 2016)
- Supervisor of molecular cell section of Traditional Medicine and Materia Medica Research Center, Shahid Beheshti University of Medical Sciences, Tehran, Iran (2011-2012)

Publications

1. Mojgan Tansaz, Najmeh Faridi, Homa Hajimehdipoor, Leila Ara, Behnaz Keramatian, **Maryam Hamzeloo-Moghadam***. Fennel-Lemon Balm Syrup for Alleviating Hot Flash in Post-Menopausal Women, a Pilot Study. Research Journal of Pharmacognosy, 2023; 10(1): 15-22.

2. Mohammad Hossein Abdolmohammadi, Maryam Roozbehani, **Maryam Hamzeloo-Moghadam**, Fatemeh Heidari, Faranak Fallahian*. Peroxisome proliferator-activated receptor gamma (PPAR γ) pathway mediates anticancer activity of Britannin, isolated from *Inula aucheriana* DC., in human gastric cancer cells. *Research Square*. 2022; 1-16.
3. Mohammadlou H, **Hamzeloo-Moghadam M**, Yami A, Feizi F, Moeinifard M, Gharehbaghian A. Britannin a sesquiterpene lactone from *Inula aucheriana* exerted an anti-leukemic effect in acute lymphoblastic leukemia (ALL) cells and enhanced the sensitivity of the cells to vincristine. *Nutr Cancer*. 2022; 74(3): 965-977.
4. **Hamzeloo-Moghadam M**, Athari S, Kashafrودي H, Dargahi T, Ara L, Choopani R. Effects of a polyherbal formulation on inflammation and histopathological alterations in mice with ovalbumin-induced allergic asthma. *Avicenna J Phytomed*, 2022; 12(5): 527-536.
5. Mohammadlou H, **Hamzeloo-Moghadam M**, Moeinifard M, Gharedbaghian A. Cytotoxic effects of britannin on acute and chronic myeloid leukemia cells through inducing p21-mediated apoptotic cell death. *Turk J Pharm Sci*. 2022 27; 19(3):314-321.
6. **Hamzeloo-Moghadam M***, Ara L, Jafari F, Mokaberinejad R. *Cuscuta chinensis* antidepressant-like effect, the role of 5-HT and the impact on behavioral response in mice. *Res J Pharmacogn*. 2022; 9(3): 1-4.
7. Maryam Roozbehani, Mohammad Hossein Abdolmohammadi, **Maryam Hamzeloo-Moghadam**, Shiva Irani, Faranak Fallahian*. Gaillardin, a potent sesquiterpene lactone induces apoptosis via down-regulation of NF- κ B in gastric cancer cells, AGS and MKN45. *Journal of Ethnopharmacology*. 2021; 281: 114529
8. Mohammadlou H, Hamzeloo-Moghadam M, Mohammadi MH, Yami A, Gharehbaghian A. Britannin, a sesquiterpene lactone induces ROS-dependent apoptosis in NALM-6, REH, and JURKAT cell lines and produces a synergistic effect with vincristine. *Mol Biol Rep*. 2021; 48(9):6249-6258.
9. Esmaili S, Asadi M, Mosaddegh M, Mohammadi Motamed S, **Hamzeloo-Moghadam M***. Cytotoxic activity of *Centaurea albonitens* Turritt aerial parts in colon and breast cancer cell lines. *J Med Plants*. 2021; 20(78): 59-67.
10. Abuali M, Rezadoost H, Vazirian M, Balaei-Kahnamoei M, **Hamzeloo-Moghadam M**. Cytotoxic Effects of *Eupatorium cannabinum* on MCF-7 Human Breast Cancer Cell Line. *Res J Pharmacogn*. 2021; 8(2): 69-75.
11. Rezghi M, Mortazavi SA, Sheikholeslami MA, Choopani R, Fahimi Sh, **Hamzeloo-Moghadam M***. Effects of traditional formulations on extra gastric mucus of rats. *Int J Pharm Sci Res*. 2021; 12: 156-162
12. Rezghi M, Mortazavi SA, Fahimi Sh, Choopani R, Sheikholeslam A, **Hamzeloo-Moghadam M***. Polyherbal tablet based on Iranian traditional medicine. *J Med Plants*. 2021;20(75): 15-25.
13. Kamali M, Mosaddegh M, Delnavazi MR, Shahrestani R, Malek Mohammadi M, **Hamzeloo-Moghadam M**. Evaluation of the cytotoxicity activity of *Gypsophila ruscifolia* by Bioassay-Guided Fractionation. *Res J Pharmacogn*. 2020; 7(4): 75-82.
14. Yami A, **Hamzeloo-Moghadam M**, Darbandi A, Karami A, Mashati P, Takhviji V, Gharehbaghian A. Ergolide, a potent sesquiterpene lactone induces cell cycle arrest along with ROS-dependent apoptosis and potentiates vincristine cytotoxicity in ALL cell lines. *J Ethnopharmacol*. 2020; 253: 112504.
15. Karami A, **Hamzeloo-Moghadam M**, Yami A, Barzegar M, Mashati P, Gharehbaghian A. The Effect of Gaillardin on proliferation and apoptosis of acute lymphoblastic leukemia cell

- line (Nalm-6). *J Med Plants*. 2020; 19: 107-117.
16. Ahmadi N, Razzaghi M, **Hamzeloo-Moghadam M**, Rostami-NejadM, Rezaei-Tavirani M, Heidari MH, Safari S, Rezaei-Tavirani M. Assessment of saffron neuroprotective properties in rat retina versus light damage. *Res J Pharmacogn*. 2020; 7(2): 33-42.
 17. Karami A, **Hamzeloo-Moghadam M**, Yami A, Barzegar M, Mashati P, Gharehbaghian A. Antiproliferative Effect of Gaillardin from *Inula oculus-christi* in human leukemic cells. *Nutr Can*. 2020; 72(6):1043.
 18. Yami A, **Hamzeloo-Moghadam M**, Karami A, Barzegar M, Amiri V, Gharehbaghian A. The apoptotic potential of ergolide to induce apoptosis in molt4 cell lines. *J Med Plants* 2020, 19(74): 155-162.
 19. Rezghi M, Mortazavi SA, Choopani R, Fahimi Sh, Sheihkoleslami MA, **Hamzeloo-Moghadam M**. Formulation of a traditional polyherbal product to a standard pharmaceutical syrup and development of its quality control methods. *Res J Pharmacogn*. 2019; 6(4): 53-59.
 20. Zakerin S, Rezghi M, Hajimehdipoor H, Ara L, **Hamzeloo-Moghadam M***. Antidepressant effect of a polyherbal syrup based on Iranian traditional medicine. *Res J Pharmacogn*. 2019; 6(2): 49-56.
 21. **Hamzeloo-Moghadam M**, Aghaei M, Abdolmoham madi MH, Fallahian F. Anticancer activity of britannin through the downregulation of cyclin D1 and CDK4 in human breast cancer cells. *J Can Res Ther*. 2019 15(5):1105-1108.
 22. **Hamzeloo-Moghadam M***, Shahrestani R, Keramatian B, Mohebbi S. Cytotoxic activity of *Crocus pallasii* subsp. *haussknechtii* in human cancer cell lines. *Int J Pharm Sci Res*. 2019; 10(1): 117-120.
 23. Mosaddegh M, Irani M, **Hamzeloo-Moghadam M***. *Acroptilon repens* induces apoptosis in human breast adenocarcinoma. *Bangladesh J Parmacol*. 2018; 13: 362-366.
 24. **Hamzeloo-Moghadam M**, Aghaei M, Abdolmohammadi MH, Khalaj A, Fallahian F. Cytotoxic effect of *Drimia maritima* bulb extract and induction of mitochondrial apoptotic signaling in human breast cancer cells, MCF-7 and MDA-MB-468. *OncoTargets Ther*.2018; 11: 7669–7677.
 25. Mosaddegh M, Taheri M, Eslami Tehrani B, **Hamzeloo-Moghadam M***. Apoptotic potential of two Caryophyllaceae species in MCF-7 and MDA-MB-468 cell lines. *Res J Pharmacogn*.2018; 5(1): 63-69.
 26. Mojtabae M, Mokaberinejad R, **Hamzeloo-Moghadam M**, Rohani Nasab M, Adhami S, Farshi S, Mansouri P. The effect of the traditional medicine product “Milk-Cuscuta” on skin hyperpigmentation in patients with Melasma. *Middle East J Fam Med*.2018; 7(10): 204-211.
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 28. Shirooye P, **Hamzeloo-Moghadam M**, Hashem-Dabaghian H, Mokaberinejad R. Comparison of local effects of ginger oil with oral ginger on associated symptoms of primary dysmenorrhea: randomized clinical trial. *Iranian J Obstet Gynecol Infertil*. 2017; 20(8), 61-69.
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35. Moein E, Hajimehdipoor H, **Hamzeloo-Moghadam M***, Choopani R, Toliyat T. Review of an Aloe-Based Formulation Used in Iranian Traditional Medicine. *Jundishapur J Nat Pharm Prod.* 2016; 11(4): e40193.
36. Hasani Sadrabadi Z, Majd A, **Hamzeloo-Moghadam M***, Irian S. Effect of electromagnetic field on okra (*Hibiscus esculentus* L.) developmental stages and the effect of okra extract on breast cancer cells. *Res J Pharmacogn.* 2016 3(2): 41-45
37. Esmaili S, Irani M, Moazzeni Zehan H, Keramatian B, Tavakoli Harandi Z, **Hamzeloo-Moghadam M**. Cytotoxic activity of some ethnic medicinal plants from southwest of Iran. *Res J Pharmacogn.* 2016 3(1): 43-47
38. Fallahian F, Aghaei M, Abdolmohammadi MH, **Hamzeloo-Moghadam M***. Molecular mechanism of apoptosis induction by Gaillardin, a sesquiterpene lactone, in breast cancer cell lines. *Cell Biol Toxicol.* 2016; 31: 295–305.
39. **Hamzeloo-Moghadam M**, Khalaj A, Malekmohammadi M, Cytotoxic activity and apoptosis induction of *Hypericum scabrum* L. a medicinal plant used in Iranian Traditional Medicine. *Iran Red Crescent Med J.* 2015; 17(10):e19453.
40. **Hamzeloo-Moghadam M**, Aghaei M, Fallahian F, Jafari SM, Dolati M, Abdolmohammadi MH, Hajiahmadi S, Esmaili S. Britannin, a sesquiterpene lactone, inhibits proliferation and induces apoptosis through the mitochondrial signaling pathway in human breast cancer cells. *Tumor biol.* 2015; 36: 1191-1198.
41. **Hamzeloo-Moghadam M**, Danaifar N, Mostafavi SA, Hajimehdipoor H. Formulation and quality control of *Prunus domestica* syrup, prepared according to Iranian Traditional Medicine. *Res J Pharmacogn.* 2015; 2(2): 13-17.
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44. **Hamzeloo-Moghadam M**, Khalaj A, Malekmohammadi M, Mosaddegh M. *Achillea vermicularis* a medicinal plant from Iranian Traditional Medicine induces apoptosis in MCF-7 cells. *Res J Pharmacogn.* 2015; 2(1): 1-5.

45. Mosaddegh M, Esmaeili S, Eslami-Tehrani B, Keramatian B, Mohebbi S, **Hamzeloo-Moghadam M***. Anti-angiogenesis properties of *Crocus pallasii* subsp. *haussknechtii*, a popular ethnic food Journal. *Res J Pharmacogn.* 2015; 2(3): 37-42.
46. Naghibi F, Khalaj A, Mosaddegh M, MalekMohamadi M, **Hamzeloo-Moghadam M*** Cytotoxic activity evaluation of some medicinal plants, selected from Iranian Traditional Medicine Pharmacopoeia to treat cancer and related disorders. *J Ethnopharmacol.* 2014; 155: 230-239.
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49. Naghibi F, Khalaj A, **Hamzeloo-Moghadam M***. Cancer terminologies used in the medieval texts to the early modern Iranian Traditional Medicine (ITM). *Res Hist Med.* 2014; 3(2): 63-72.
50. **Hamzeloo-Moghadam M**, Eslami Tehrani B, Pirani A, Hassanpour A, Esmaeili S. A survey about prophage induction ability in *Escherichia coli* K-12(λ) by ethnic medicinal plants of Kohgiluyeh va Boyerahmad, Iran. *Res J Pharmacogn.* 2014; 1(4): 7-10.
51. Hajimehdipoor H, Naghibi F, Bandidarian A, Moazzeni Zehan H, Pirani A, **Hamzeloo-Moghadam M***. Evaluating the antioxidant and acetylcholinesterase inhibitory activity of three *Centaurea* species. *Res J Pharmacogn.* 2014; 1(1): 33-37.
52. **Hamzeloo-Moghadam M**, Esmaeili S, Fotoohi F, Naghibi F, Pirani A, Hajimehdipoor H. *In vitro* evaluation for cytotoxic activity of three *Ferula* species. *Int J Pharm Sci Res.* 2013; 4(7): 2673-2676.
53. **Hamzeloo-Moghadam M**, Naghibi F, Atoofi A, Asgharian Rezaie M, Irani M, and Mosaddegh M. Cytotoxic activity and apoptosis induction by gaillardin. *Z Naturforsch.* 2013; 68c: 108 –112.
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55. Hajimehdipoor H, Adib N, Khanavi M, Mobli M, Amin GR, **Hamzeloo-Moghadam M***. Comparative study on the effect of different methods of drying on phenolics content and antioxidant activity of some edible plants. *Int J Pharm Sci Res.* 2012; 3(10): 3712-3716.
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57. **Hamzeloo-Moghadam M**, Hajimehdipoor H, Saeidnia S, Atoofi A, Shahrestani A, Read RW, Mosaddegh M. Anti-proliferative activity and apoptotic potential of britannin, a sesquiterpene lactone from *Inula aucheriana*. *Nat Prod Commun.* 2012; 7(8): 979-980.
58. Mosaddegh M, Esmaeili S, Naghibi F, **Hamzeloo-Moghadam M***, Haeri A, Pirani A, Moazzeni H. Ethnomedical survey and cytotoxic activity of nineteen medicinal plant extracts. *J Herb Spices Med Plants.* 2012; 18(3): 211-221.
59. Mokhtari Sh, Mosaddegh M, **Hamzeloo-Moghadam M**, Soleymani Z, Ghafari S, Kobarfard S. Synthesis and cytotoxic evaluation of novel 3-substituted derivatives of 2-indolinone. *Iran J Pharm Res.* 2012; 11(2): 411-421.
60. Ghafari S, **Hamzeloo-Moghadam M***. Traditional Iranian medicine and importance of breastfeeding. *J Islam Iran Trad Med.* 2011; 2(2): 117-122.

61. Abdollahzadeh Sh, Mashouf RY, Mortazavi H, **Hamzeloo-Moghadam M**, Roozbahani N, Vahedi M. Antibacterial and antifungal activities of *Punica granatum* peel extract against oral pathogenes. *J Dentistry*. 2011; 8(1): 1-6.
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Books

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2. Khorshidi N, **Hamzeloo-Moghadam M** (2010). Women diseases and natural remedies. Traditional Medicine and Materia Medica Research Center, Tehran, Iran
3. Mohebbi S, **Hamzeloo-Moghadam M** (2010). Galenical preparations, components and formulations. Daru Gostar Razi, Tehran, Iran

Abstracts

1. Esmaeili S, Naderi F, **Hamzeloo-Moghadam M**, Mohammadi Motamed S. *Rhazya stricta* cytotoxic properties. 15th Iranian Congress of Toxicology. 2019, Tehran.
2. Mosaddegh M, **Hamzeloo-Moghadam M**, Esmaili S, Izadi N. The cytotoxic effect of *Eryngium billardieri* on breast cancer cells in comparison with normal cells. 15th Iranian Congress of Toxicology. 2019, Tehran.
3. **Hamzeloo-Moghadam M**, Asadi M, Esmaeili S, Mosaddegh M, Mohamadd iMotamed S. Cytotoxic effects of *Centaurea albonites* in AGO-1522, HT-29, A-549 and MCF-7 cell lines. 15th Iranian Congress of Toxicology. 2019, Tehran.
4. Saeidi Rad A, Esmaeili S, Mohammadi Motamed M, **Hamzeloo Moghadam M**. Cytotoxicity of two *Gypsophila* species to human breast adenocarcinoma (MCF-7). First Congress of Pharmacy Updates. 2018, Tehran, Iran.
5. Esmaeili S, Irani M, **Hamzeloo-moghadam M**, Hajimehdipoor H, Mosaddegh M. Heme polymerization inhibition of some plants from Lamiacea family. 16th Annual medicinal & pharmaceutical sciences congress. 2017, Seoul, South korea.
6. **Hamzeloo-moghadam M**, Mosaddegh M, Eslami Tehrani B, Hajimehdipoor H, Esmaeili S. Cytotoxic activity of *Acanthophllum bracteatum* and *A. microcephalum* in a human breast cancer cell line. 16th Annual medicinal & pharmaceutical sciences congress. 2017, Seoul, South korea.
7. Hajimehdipoor H, **Hamzeloo-Moghadam M**, Moein E, Toliyat T, Choopani R Esmaeili S. Formulation of a poly herbal product according to traditional medicine. 16th Annual medicinal & pharmaceutical sciences congress. 2017, Seoul, South korea.
8. Zakerin S, Rezghi M, **Hamzeloo-Moghadam M**, Hajimehdipoor H. Formulation and quality control of a poly herbal tranquilizer syrup. 1st Iranian Pharmacognosy Congress. 2017. Tehran University of Medical Sciences, Tehran, Iran.
9. Rezghi M, Zakerin S, Hajimehdipoor H, **Hamzeloo-Moghadam M**. Formulation of a poly herbal gel for uterus flux. 1st Iranian Pharmacognosy Congress. 2017, Tehran University of Medical Sciences, Tehran, Iran.
10. Salimi A, Esmaeili S, **Hamzeloo-Moghadam M**, Irani M, Mohammadi Motame S. Antimalarial assessment of *Viola odorata* L. by heme polymerization inhibition

- method. 1st Iranian Pharmacognosy Congress. 2017, Tehran University of Medical Sciences, Tehran, Iran.
11. Nikmanesh N, Hajimehdipoor H, **Hamzeloo-Moghadam M**, Mohammadi Motamed S. Formulation and quality control of amla oil (*Phyllanthus emblica*) based on Iranian traditional medicine. 1st Iranian Pharmacognosy Congress. 2017, Tehran University of Medical Sciences, Tehran, Iran.
 12. Salami A, Esmaeili S, **Hamzeloo Moghaddam M**, Irani M, Mohammadi Motamed S. Antimalarial assessment of *Fumaria* Lim., *Cichorium intybus* L. and *Viola odorata* L. used in Iranian traditional medicine for the treatment of fever by heme polymerization inhibition method. 6thNational Congress on Medicinal Plants. 2017.
 13. Salimi A, Esmaeili S, **Hamzeloo Moghaddam M**, Irani M, Mohammadi Motamed S. Antimalarial assessment of *Cichorium intybus* L. used in Iranian traditional medicine for the treatment of fever by heme polymerization inhibition method. 7thNational Congress on Medicinal Plants. 2017, Shiraz, Iran.
 14. **Hamzeloo-Moghadam M**, Hajimehdipoor H, Sahranavard S, Esmaeili. Establishing a structured report style for practical courses of Traditional Pharmacy including “Iranian traditional medicinal plants”, “plant systematics”, “quality control (physicochemical and microbial) of traditional medicines and “phytopharmaceuticals” and providing a template for each course. 14th Iranian Medical Education Conference. 2013, Tehran, Iran.
 15. **Hamzeloo-Moghadam M**, Mosaddegh M, Read RW. Antiproliferative activity of gaillardin against six cell lines 13th Iranian pharmaceutical Sciences Congress. 2012, Isfahan, Iran.
 16. Hajimehdipoor H, Bandidarian A, **Hamzeloo-Moghadam M**, Mosaddegh M. Antioxidant property of two star thistles (*Centaurea*) from Iran. 13th Iranian pharmaceutical Sciences Congress, 2012, Isfahan, Iran.
 17. **Hamzeloo-Moghadam M**, Fotoohi F, Hajimehdipoor H, Esmaeili S, Naghibi F. Ferric reducing property of three species of *Ferula* (Apiaceae) from Iran. 13th Iranian pharmaceutical Sciences Congress, 2012, Isfahan, Iran.
 18. Hajimehdipoor H, Esmaeili S, **Hamzeloo-Moghadam M**. Standardization of MCQ questions for courses of Phytotherapy and Quality Control of Medicinal Herbs, Educational Conference. 2012. Shahid Behsheshti University of Medical Sciences, Tehran, Iran.
 19. **Hamzeloo Moghadam M**, Ghafari S. Traditional Medicine point of view about breastfeeding. 2012, National Congress on breastfeeding, Tehran, Iran.
 20. **Hamzeloo Moghadam M**, Mosaddegh M, Read RW. Sesquiterpenes from *Inula oculus-christi*. 2007, Annual one-day symposium, Sydney, Australia.
 21. Mosaddegh M, Moazzami N, Naghibi F, **Hamzeloo moghaddam M**. Cytotoxic effect of some indigenous Iranian plants. 2004, Second International congress on traditional medicine & material medica, Tehran, Iran.
 22. **Hamzeloo-Moghadam M**, Shajari E, Naghibi F. *Crataegus oxyacantha* with cardiovascular effects. 2004, Second congress on prevention of non-infectious diseases, Tehran, Iran.