

## Katayoun Morteza-Semnani

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### EDUCATIONS:

- Diploma from Hajar high school, Tehran (1989).
- Pharm. D. degree from Faculty of Pharmacy at Tehran University of Medical Sciences (1989-1994).  
Thesis: Synthesis of derivatives of 2-(2-Arylethyl)-1-methylimidazole  
Thesis Supervisor: Prof. Abbas Shafiee
- Ph.D. degree in Medicinal Chemistry from Faculty of Pharmacy at Tehran University of Medical Sciences (1994-1998).  
Dissertation: Isolation and identification of alkaloids of some species of *Glaucium*  
Dissertation Supervisor: Prof. Abbas Shafiee

### LANGUAGES:

- **Persian:** Native
- **English:** Fluent, Advanced Reading and Writing

### PROFESSIONAL EXPERIENCES:

- Assistant Professor in Faculty of Pharmacy at Mazandaran University of Medical Sciences (1999-2003).
- Associate Professor in Faculty of Pharmacy at Mazandaran University of Medical Sciences (2003-2008).
- Professor in Faculty of Pharmacy at Mazandaran University of Medical Sciences (since 2008 up to now).

### TEACHING EXPERIENCES:

- Medicinal Chemistry
- Natural Products
- Analytical Chemistry
- Instrumental Analysis
- Organic Chemistry
- General Chemistry
- Medical Terminology

## **RESEARCH INTERESTS:**

- Medicinal Chemistry
- Instrumental analysis
- Phytochemistry
- Studies on natural products especially essential oils and alkaloids
- Ethnopharmacological studies on medicinal plants
- Synthesis

## **AWARDS:**

- The first rank in Medicinal Chemistry Board Exam, Tehran, Iran, 1997.
- The third prize winner in the 6<sup>th</sup> Razi Medical Sciences Research Festival, Tehran, 2000.
- The second prize winner in the 3<sup>th</sup> Khwarizmi Youth Festival, Tehran, 2001.
- The best researcher in Mazandaran Province, Sari, 2002 & 2008.
- The best professor in Iran, Tehran, 2003.
- The second prize winner of the best researcher in Ministry of Health and Medical Education, Tehran, 2005.
- The first prize winner of the best researchers, Mazandaran University of Medical Sciences, Sari, 2000, 2001, 2002, 2003, 2005, and 2006.
- The first prize winner of best researchers, Faculty of Pharmacy, Sari, 2008.
- The best young researcher in the 12<sup>th</sup> Razi Medical Sciences Research Festival, Tehran, 2006.
- The best woman researcher in Mazandaran Province, Sari, 2008.
- The best woman researcher in Iran, Tehran, 2008.
- Awarded prize in the International Celebration in Mazandaran University of Medical Sciences, Sari, 2011.
- The best researcher in Mazandaran Province, Faculty of Pharmacy, Sari, 2015.
- The best woman researcher in Mazandaran University of Medical Sciences, Faculty of Pharmacy, Sari, 2016.
- The best professor of Faculty of Pharmacy in Mazandaran University of Medical Sciences, Sari, 2016.
- One of the world's top 2% scientists in 2021. <https://doi.org/10.17632/btchxktzyw.3>

## **RESEARCH EXPERIENCES:**

- Supervisor or advisor of 7 Ph.D. dissertations, 146 Pharm.D. theses, and 6 M.Sc. theses in Faculty of Pharmacy at Mazandaran University of Medical Sciences, 1999-2022.

## PUBLICATIONS:

- 1) Shafiee A., **Morteza-Semnani K.** and Foroumadi A., Syntheses of 2-(2-Arylethyl)-1-methylimidazoles, *Journal of Heterocyclic Chemistry*, 1996, 33: 671-673.  
<https://doi.org/10.1002/jhet.5570330325>
- 2) Shafiee A., **Morteza-Semnani K.**, Crabbine and other alkaloids from the aerial parts of *Glaucium paucilobum*, *Planta Medica*, 1998, 64: 680. DOI: [10.1055/s-2006-957555](https://doi.org/10.1055/s-2006-957555)
- 3) Shafiee A., **Morteza-Semnani K.**, Amini M., (+)-Bulbocapnine- $\beta$ -N-oxide from *Glaucium fimbriigerum*, *Journal of Natural Products*, 1998, 61: 1564-1565.  
<https://doi.org/10.1021/np9801920>
- 4) Shafiee A., **Morteza-Semnani K.**, Alkaloids of Papaveraceae (XIX). Alkaloids of *Glaucium paucilobum* Population Golestan Forest, *Journal of Sciences, Islamic Republic of Iran*, 1999, 10: 229-232.
- 5) Hadjiakhoondi A., **Morteza-Semnani K.**, Inanloo H.R., Pirali-Hamedani M., Shafiee A., Angoline and other alkaloids from the roots of *Glaucium oxylobum*, *DARU: Journal of Pharmaceutical Sciences*, 1999, 7(3): 31-35.
- 6) **Morteza-Semnani K.**, Saeedi M., Alkaloids of the aerial parts of *Glaucium grandiflorum* Boiss & Huet population Sorkhe hesar, *Journal of Mazandaran University of Medical Sciences*, 2001, 11(30): 31-37. (in Persian) <http://jmums.mazums.ac.ir/article-1-24-en.html>
- 7) **Morteza-Semnani K.**, Saeedi M., O Gharipour, Evaluation of cardiovascular drugs interactions in insured prescriptions in Sari during the years 2000-2001, *Journal of Mazandaran University of Medical Sciences*, 2001, 11(32): 37-45. (in Persian)  
<http://jmums.mazums.ac.ir/article-1-52-en.html>
- 8) **Morteza-Semnani K.**, Saeedi M., Hamidian M., Vafamehr M., Dehpour A.R., Anti-inflammatory, analgesic activity and acute toxicity of *Glaucium grandiflorum* extract, *Journal of Ethnopharmacology*, 2002, 80(2): 181-186.  
DOI: [10.1016/s0378-8741\(02\)00027-2](https://doi.org/10.1016/s0378-8741(02)00027-2)
- 9) **Morteza-Semnani K.**, Saeedi M., Vahedi M., Volatile constituents of Iranian *Hypericum perforatum* L., *Oriental Journal of Chemistry*, 2002, 18: 443-444.
- 10) Azadbakht M., **Morteza-Semnani K.**, Saeedi M. and Yousefi N., Evaluation of herbal gel from chamomile, myrrh and peppermint on minor Aphthous, *Pharmaceutical Sciences*, 2002, 1: 1-12. (in Persian)
- 11) **Morteza-Semnani K.**, Saeedi M., Hamidian M., Vafamehr H., Dehpour A.R., Anti-inflammatory and analgesic activity of *Glaucium grandiflorum* extract, *Journal of Mazandaran University of Medical Sciences*, 2002, 12(36): 7-16. (in Persian)  
<http://jmums.mazums.ac.ir/article-1-320-en.html>

- 12) **Morteza-Semnani K.**, Saeedi M., Isazade Mashinchi M., Evaluation of anti-depressant drugs interactions in insured prescriptions in Anzali in 1379, Journal of Guilan University of Medical Sciences, 2002, 11(41): 26-33. (in Persian) <http://journal.gums.ac.ir/article-1-799-fa.html>
- 13) **Morteza-Semnani K.**, Saeedi M., Constituents of the essential oil of *Commiphora myrrha* (Nees) Engl. var. *molmol*, Journal of Essential Oil Research, 2003, 15(1): 50-51. <https://doi.org/10.1080/10412905.2003.9712264>
- 14) **Morteza-Semnani K.**, Amin Gh.R., Shidfar MR, Hadizadeh H., Shafiee A., Antifungal activity of methanolic extract and alkaloids of *Glaucium oxylobum*, Fitoterapia, 2003, 74(5): 493-496. [https://doi.org/10.1016/S0367-326X\(03\)00113-8](https://doi.org/10.1016/S0367-326X(03)00113-8)
- 15) **Morteza-Semnani K.**, Saeedi M., Shahnavaz B.: Comparison of antioxidant activity of extract from roots of licorice (*Glycyrrhiza glabra* L.) to commercial antioxidants in 2% hydroquinone cream, Journal of Cosmetic Science, 2003, 54 (6): 551-558. [PMID: 14730371](https://pubmed.ncbi.nlm.nih.gov/14730371/)
- 16) Saeedi M., **Morteza-Semnani K.**, Ghoreishi M.R., The treatment of atopic dermatitis with licorice gel, Journal of Dermatological Treatment, 2003, 14(3): 153-157. [DOI: 10.1080/09546630310014369](https://doi.org/10.1080/09546630310014369)
- 17) **Morteza-Semnani K.**, Saeedi M., Pharmacy education in Iran, Pharmacy Education, 2003, 3(2): 135-139. [DOI: 10.1080/1560221031000147566](https://doi.org/10.1080/1560221031000147566)
- 18) Moussavi Z., **Morteza-Semnani K.**, Synthesis of some new 4-Methyl-3,4-dihydro-2H-1,4-benzoxazin-3-one-7-carboxamide derivatives, Chemistry: An Indian Journal, 2003, 1(2): 86-89.
- 19) Saeedi M., Azadbakht M., **Morteza-Semnani K.**, Khandan M., Formulation of herbal toothpaste from Chamomile and Myrrh, a preliminary clinical evaluation on bleeding gum, Journal of Mazandaran University of Medical Sciences, 2003, 13(40): 61-69. (in Persian) <http://jmums.mazums.ac.ir/article-1-775-en.html>
- 20) **Morteza-Semnani K.**, Azadbakht M., Hooshmand A., Composition of the essential oils of aerial parts of *Eryngium bungei* Boiss. and *Eryngium caeruleum* M.B., Pharmaceutical Sciences, 2003, 1: 43-48. (in Persian)
- 21) **Morteza-Semnani K.**, Azadbakht M., Saeedi M., Rohanifard S., Evaluation of herbal gel from chamomile and myrrh on *Paederus* dermatitis, Journal of Medicinal Plants, 2003, 2(5): 31-42. (in Persian) <http://jmp.ir/article-1-786-en.html>
- 22) Azadbakht M., **Morteza-Semnani K.**, Khansari N., The essential oils composition of *Achillea wilhelmsii* C. Koch leaves and flowers, Journal of Medicinal Plants, 2003, 2(6): 55-58. (in Persian) <http://jmp.ir/article-1-782-fa.html>

- 23) **Morteza-Semnani K.**, Saeedi M., Hamidian M., Anti-inflammatory and analgesic activity of the topical preparation of *Glaucium grandiflorum*, *Fitoterapia*, 2004, 75(2): 123- 129. <https://doi.org/10.1016/j.fitote.2003.12.007>
- 24) Moussavi Z., **Morteza-Semnani K.**, Tajmir B., Syntheses of some new ethyl 7-acyl-3,4- dihydro-2-oxo-2H-1,4-benzoxazine-4-acetates, *Chemistry: An Indian Journal*, 2004, 1(5): 356-359.
- 25) **Morteza-Semnani K.**, The essential oil composition of *Perovskia abrotanoides* from Iran, *Pharmaceutical Biology*, 2004, 42(3): 214-216. <https://doi.org/10.1080/13880200490514078>
- 26) Moussavi Z., **Morteza-Semnani K.**, Synthesis of some new substituted di-*tert*-butylphenols as potential cox-2 inhibitors, *Chemistry: An Indian Journal*, 2004, 1(8): 566-568.
- 27) **Morteza-Semnani K.**, Azadbakht M., Goodarzi A., The essential oils composition of *Phlomis herba-venti* L. leaves and flowers, *Flavour and Fragrance Journal*, 2004, 19(1):29-31. <https://doi.org/10.1002/ffj.1268>
- 28) **Morteza-Semnani K.**, Saeedi M., Essential oils composition of *Nepeta cataria* L. and *Nepeta crassifolia* Boiss. & Buhse from Iran, *Journal of Essential Oil Bearing Plants*. 2004, 7(2): 120-124. <https://doi.org/10.1080/0972-060X.2004.10643376>
- 29) **Morteza-Semnani K.**, Saeedi M., Changizi Sh. The essential oil composition of *Thymus fallax* Fisch. & C.A. Mey. from Iran, *Journal of Essential Oil Bearing Plants*. 2004, 7(3): 210- 216. <https://doi.org/10.1080/0972-060X.2004.10643394>
- 30) **Morteza-Semnani K.**, Saeedi M., The essential oil composition of *Marrubium astracanicum* Jacq. from Iran, *Journal of Essential Oil Bearing Plants*. 2004, 7(3): 239-242. <https://doi.org/10.1080/0972-060X.2004.10643399>
- 31) Azadbakht M., **Morteza-Semnani K.**, Khansari N., Composition of Essential oil of *Artemisia aucheri* Boiss from dried flowering tops, *Chemistry: An Indian Journal*, 2004, 1(9): 632-634.
- 32) Moussavi Z., Morteza-Semnani K., Synthesis and antimicrotubular activity of 2-benzoxazolinone derivatives, *Chemistry: An Indian Journal*, 2005, 1(11): 710-712.
- 33) Saeedi M., Akbari J., Morteza-Semnani K., Asgari-Rad H., Interpolymer complexation in hydrophylic polymers, *Chemistry: An Indian Journal*, 2005, 2(1): 17-21.
- 34) Morteza-Semnani K., Saeedi M., Hesam A., Antioxidant activity of some plant extracts on sunflower oil, *Chemistry: An Indian Journal*, 2005, 2(2): 52-56.

- 35) Morteza-Semnani K., Akbarzadeh M., Moshiri K. Essential oil composition of *Artemisia fragrans* Willd. from Iran, Flavour and Fragrance Journal, 2005, 20(3): 330-331. <https://doi.org/10.1002/ffj.1431>
- 36) **Morteza-Semnani K.**, Saeedi M. The essential oil composition of *Hypericum androsaemum* L. leaves and flowers from Iran, Flavour and Fragrance Journal, 2005, 20(3): 332-334. <https://doi.org/10.1002/ffj.1432>
- 37) **Morteza-Semnani K.**, Saeedi M. The essential oil composition of *Phlomis bruguieri* Desf. from Iran, Flavour and Fragrance Journal, 2005, 20 (3): 344-346. <https://doi.org/10.1002/ffj.1459>
- 38) **Morteza-Semnani K.**, Moshiri K., Akbarzadeh M., The essential oil composition of *Salvia multicaulis* Vahl from Iran, Journal of Essential Oil Bearing Plants. 2005, 8 (1): 6-10. <https://doi.org/10.1080/0972060X.2005.10643412>
- 39) **Morteza-Semnani K.**, Akbarzadeh M., Moshiri K., The essential oil composition of *Stachys pubescens* Ten., Journal of Essential Oil Bearing Plants. 2005, 8 (1): 32-35. <https://doi.org/10.1080/0972060X.2005.10643418>
- 40) **Morteza-Semnani K.**, Saeedi M., Essential oil composition of *Echium amoenum* Fisch. & C.A. Mey., Journal of Essential Oil Bearing Plants. 2005, 8(1): 61-64. <https://doi.org/10.1080/0972060X.2005.10643422>
- 41) **Morteza-Semnani K.**, Saeedi M., Mahdavi M.R., Antibacterial studies on extracts of three species of *Glaucium* from Iran, Pharmaceutical Biology, 2005, 43(3): 234-236. <https://doi.org/10.1080/13880200590928816>
- 42) **Morteza-Semnani K.**, Azadbakht M., Goodarzi A., The essential oil of *Salvia aethiopsis* L., Journal of Essential Oil Research, 2005, 17(3): 274-275. <https://doi.org/10.1080/10412905.2005.9698900>
- 43) **Morteza-Semnani K.**, Akbarzadeh M., Essential oils composition of Iranian *Artemisia absinthium* L. and *Artemisia scoparia* Waldst. et Kit., Journal of Essential Oil Research, 2005, 17(3): 321-322. <https://doi.org/10.1080/10412905.2005.9698918>
- 44) **Morteza-Semnani K.**, Moussavi Z., Synthesis of some new 6- and 7-Aryl-2,3-dihydro-4-methyl-3,8-dioxo-cyclopenta[g]-1,4-benzoxazine derivatives, Chemistry: An Indian Journal, 2005, 2(3-4): 89- 94.
- 45) **Morteza-Semnani K.**, Moussavi Z., Evaluation of hypolipemic activity of  $\alpha$ -methyleneketone benzoxazolinones, Chemistry: An Indian Journal, 2005, 2(7): 209-212.
- 46) Enayatifard R, Khalili N, Rahimizadeh M., **Morteza-Semnani K.**, Investigation of degradation pathways of ketoconazole in aqueous media, Chemistry: An Indian Journal, 2005, 2(7): 213-215.

- 47) **Morteza-Semnani K.**, Akbarzadeh M., Rostami B., The essential oil composition of *Teucrium chamaedrys* L. from Iran, *Flavour and Fragrance Journal*, 2005, 20(5): 544-546. <https://doi.org/10.1002/ffj.1479>
- 48) **Morteza-Semnani K.**, Saeedi M., Essential oil composition of *Dracocephalum kotschy* Boiss., *Journal of Essential Oil Bearing Plants*, 2005, 8(2): 192-195. <https://doi.org/10.1080/0972060X.2005.10643443>
- 49) **Morteza-Semnani K.**, Saeedi M., Eslami G., Essential oil composition of *Ziziphora clinopodioides* Lam. From Iran, *Journal of Essential Oil Bearing Plants*, 2005, 8(2): 208-212. <https://doi.org/10.1080/0972060X.2005.10643447>
- 50) **Morteza-Semnani K.**, Akbarzadeh M., Moshiri K., The essential oil composition of *Achillea biebersteinii* Afan., *Journal of Essential Oil Bearing Plants*, 2005, 8(2): 200-203. <https://doi.org/10.1080/0972060X.2005.10643445>
- 51) **Morteza-Semnani K.**, Saeedi M., Nozadi Z., Antioxidant activity of Rosemary extract in 2% hydroquinone cream, *International Journal of Biology and Biotechnology*, 2005, 2(3): 723-727.
- 52) **Morteza-Semnani K.**, Saeedi M., Changizi Sh., Vosoughi M., Essential oil composition of *Salvia virgata* Jacq. from Iran, *Journal of Essential Oil Bearing Plants*. 2005, 8(3): 330-333. <https://doi.org/10.1080/0972060X.2005.10643461>
- 53) **Morteza-Semnani K.**, Essential Oil Composition of *Eryngium bungei* Boiss., *Journal of Essential Oil Research*, 2005, 17(5): 485-486. <https://doi.org/10.1080/10412905.2005.9698972>
- 54) **Morteza-Semnani K.**, Saeedi M., Nozadi Z., Comparison of antioxidant activity of extract of Green tea to commercial antioxidants in 2% hydroquinone cream, *Journal of Medicinal Plants*, 2005, 4(13): 36-45. (in Persian) <http://jmp.ir/article-1-716-en.html>
- 55) **Morteza-Semnani K.**, Akbarzadeh M., Changizi Sh., Essential oils composition of *Stachys byzantina*, *S. inflata*, *S. lavandulifolia* and *S. laxa* from Iran, *Flavour and Fragrance Journal*, 2006, 21(2): 300-303. <https://doi.org/10.1002/ffj.1594>
- 56) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., Moshiri K., The essential oil composition of *Onosma microcarpum* DC., *Flavour and Fragrance Journal*, 2006, 21(2): 314-316. <https://doi.org/10.1002/ffj.1597>
- 57) Mahmoudi M., **Morteza-Semnani K.**, Saeedi M., Javanmardi A., Hypericins content, anti-inflammatory and analgesic activity of Iranian *Hypericum perforatum*, *International Journal of Biology and Biotechnology*, 2006, 3 (1): 91-97.

- 58) **Morteza-Semnani K.**, Composition of the essential oil of *Tanacetum polycephalum* Schultz Bip., Journal of Essential Oil Research, 2006, 18(2): 129-130. <https://doi.org/10.1080/10412905.2006.9699041>
- 59) **Morteza-Semnani K.**, Essential oil Composition of *Lallemantia iberica* Fisch. et C. A. Mey., Journal of Essential Oil Research, 2006, 18(2): 164-165. <https://doi.org/10.1080/10412905.2006.9699055>
- 60) **Morteza-Semnani K.**, Saeedi M., Changizi Sh., The essential oil composition of *Hypericum scabrum* L. from Iran, Flavour and Fragrance Journal, 2006, 21(3): 513-515. <https://doi.org/10.1002/ffj.1614>
- 61) **Morteza-Semnani K.**, Akbarzadeh M., Moshiri K., The essential oil composition of *Eupatorium cannabinum* L. from Iran, Flavour and Fragrance Journal, 2006, 21(3): 521-523. <https://doi.org/10.1002/ffj.1687>
- 62) **Morteza-Semnani K.**, Rostami B., Akbarzadeh M., Essential oil composition of *Thymus kotschyanus* and *Thymus pubescens* from Iran., Journal of Essential Oil Research, 2006, 18(3): 272-274. <https://doi.org/10.1080/10412905.2006.9699085>
- 63) **Morteza-Semnani K.**, Mahmoudi M., Heidar M.R., Analgesic activity of the methanolic extract and total alkaloids of *Glaucium paucilobum*, Methods and Findings in Experimental and Clinical Pharmacology, 2006, 28(3): 151-155. [DOI: 10.1358/mf.2006.28.3.985229](https://doi.org/10.1358/mf.2006.28.3.985229)
- 64) **Morteza-Semnani K.**, Saeedi M., Mahdavi M.R., Rahimi F., Antimicrobial studies on extracts of three species of *Phlomis*, Pharmaceutical Biology, 2006, 44 (6): 426-429. <https://doi.org/10.1080/13880200600798445>
- 65) **Morteza-Semnani K.**, Moshiri K., Akbarzadeh M., The essential oil composition of *Phlomis cancellata* Bunge., Journal of Essential Oil Research, 2006, 18(6): 672-673. <https://doi.org/10.1080/10412905.2006.9699201>
- 66) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Prunella vulgaris* L., Journal of Essential Oil Bearing Plants, 2006, 9(3): 257-260. <https://doi.org/10.1080/0972060X.2006.10643500>
- 67) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Mentha aquatica* L., Journal of Essential Oil Bearing Plants, 2006, 9(3): 283-286. <https://doi.org/10.1080/0972060X.2006.10643505>
- 68) **Morteza-Semnani K.**, Saeedi M., Shahani S., Antioxidant activity of the methanolic extracts of some species of *Phlomis* and *Stachys* on sunflower oil, African Journal of Biotechnology, 2006, 5(24): 2428-2432. <https://doi.org/10.5897/AJB2006.000-5101>



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- 70) **Morteza-Semnani K.**, Mahmoudi M., Riahi G., Effects of essential oils and extracts from certain *Thymus* species on swimming performance in mice, *Pharmaceutical Biology*, 2007, 45(6): 464-467. <https://doi.org/10.1080/13880200701389177>
- 71) **Morteza-Semnani K.**, Babanezhad E., Essential oil composition of *Chenopodium botrys* L. from Iran, *Journal of Essential Oil Bearing Plants*, 2007, 10(4): 314-317. <https://doi.org/10.1080/0972060X.2007.10643561>
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- 76) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Ballota nigra* L., *Chemistry of Natural Compounds*, 2007, 43(6): 722-723. [DOI: 10.1007/s10600-007-0245-4](https://doi.org/10.1007/s10600-007-0245-4)
- 77) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Kickxia spuria* (L.) Dum., *Journal of Essential Oil Research*, 2008, 20(1): 24-25. <https://doi.org/10.1080/10412905.2008.9699412>
- 78) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Leonurus cardiaca* L., *Journal of Essential Oil Research*, 2008, 20 (2): 107-109. <https://doi.org/10.1080/10412905.2008.9699966>
- 79) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Artemisia tschernieviana* Besser, *Journal of Essential Oil Research*, 2008, 20(2): 109-111.
- 80) Mahmoudi M., **Morteza-Semnani K.**, Mojra E., Anti-inflammatory and analgesic activity of *Thymus pubescens* extract, *Fitoterapia*, 2008, 79(5): 361-365. [DOI: 10.1016/j.fitote.2008.04.004](https://doi.org/10.1016/j.fitote.2008.04.004)

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- 83) **Morteza-Semnani K.**, Saeedi M., Akbarzadeh M., The essential oil composition of *Betonica nivea* Stev. subsp. *mazandarana* (Bornm.) Rech.f., Acta Botanica Hangarica, 2008, 50(3-4), 385-389. <https://doi.org/10.1556/abot.50.2008.3-4.14>
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