

Mahdieh Eftekhari

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Education

PhD of Pharmacognosy - Department of Pharmacognosy, Faculty of Pharmacy, Tehran
University of Medical Sciences, Tehran, Iran (۲۰۱۴ - ۲۰۱۸).

▪ **PhD Thesis title:** Phytochemical Investigation of *Oliveria decumbens* Vent. and its antibacterial effect

Pharm.D. - Department of Pharmacology, Faculty of Pharmacy, Isfahan University of
Medical Sciences, Isfahan, Iran

▪ **Pharm. D. Thesis title:** Anti-Inflammatory Activity of a Selection of Antidepressant Drugs

SUMMARY OF QUALIFICATIONS:

- Pharm.D. & Ph.D. in Pharmacognosy with expertise in end-to-end natural drug discovery, from bioactive compound isolation to formulation design and clinical trial support.
- Authored and published over ۴۰ peer-reviewed articles in ISI/PubMed-indexed journals on herbal analysis and mechanistic biological effects.
- Supervised and advised the successful completion of ۳۰+ research projects
- Extensive experience in designing and conducting a wide range of in vitro and in vivo biological assays to evaluate pharmacological activity.
- Experience in instrumental analysis such as GC/MS, NMR
- Specialized knowledge in the chemical study of lichens and protein extraction methodologies from animal sources.
- Experience in phytopharmaceutical formulation development, stability testing, and

quality control for natural products

- Experienced in preparing comprehensive Product Master Files (PMF) and conducting full physicochemical evaluation and characterization of natural medicines.
 - Good writing and oral skills; highly proficient in organization, project management, and time management
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Awards & Achievements

Outstanding student (PhD) in Department of Pharmacognosy, Faculty of Pharmacy, Tehran University of Medical Sciences

Top student in board exam

Publications

Journal Papers

١. Arabi, S. S., Bahrami, M. T., Fakhri, S., **Eftekhari, M.**, & Abbasi-Maleki, S. (٢٠٢٥). The Antidepressant Potential of Heracleum persicum Essential Oil in the Forced Swim Test in Mice: Involvement of Antioxidant and Monoaminergic Mechanisms. *Journal of Reports in Pharmaceutical Sciences*, 13(١٣).
٢. Ahmadpour, V., Modarresi, M., **Eftekhari, M.**, Saeedi, M., Karimi, N., & Rasekhian, M. (٢٠٢٤). Chemical composition of essential and fixed oils of Tagetes erecta fruits (Iran) and their implications in inhibition of cancer signaling. *Scientific Reports*, ٢٠٢٤ 14(١), ١٩٦٦٧
٣. Shakerinasab, N., Mottaghipisheh, J., **Eftekhari, M.**, Sadeghi, H., Bazarganipour, F., Abbasi, R. & Iriti, M. (٢٠٢٤). The hydroalcoholic extract of Nasturtium officinale reduces oxidative stress markers and increases total antioxidant capacity in patients with asthma. *Journal of Ethnopharmacology*, 318, ١١٦٨٦٢.
٤. Akbari, G., Abasi, M. R., Gharaghani, M., Nouripoor, S., Shakerinasab, N., Azizi, M., **Eftekhari, M.**, & Doustimotlagh, A. H. (٢٠٢٤). Antioxidant and hepatoprotective

- activities of *Juniperus excelsa* M. Bieb against bile duct ligation-induced cholestasis. *Research in Pharmaceutical Sciences*, 19(۲), ۲۱۷-۲۲۷.
۵. Abbasi, R., Zarei, E., Shakerinasab, N., **Eftekhari, M.**, Sadeghi, H., Fazel, A., ... & Bazarganipour, F. (۲۰۲۴). Effectiveness of hydroalcoholic extract of *Nasturtium Officinale* on sleep quality, asthma control and quality of life in asthmatic patients: a randomized controlled trial. *Acta Biochimica Iranica*.
 ۶. Ahmadi, D. M., Mojtavavi, S., Ghadami, S., **Eftekhari, M.**, Ardekani, M. R. S., Faramarzi, M. A., & Khanavi, M. (۲۰۲۴). *Cassia angustifolia* Vahl. Leaves: Determination of Total Phenolic and Sennoside Contents of Different Fractions in Comparison with Their α -Glucosidase and Tyrosinase Inhibitory Effects. *IJ Pharmaceutical Research*, 23(۱).
 ۷. Ghadami, S., Saeedi, M., Delnavazi, M. R., **Eftekhari, M.**, Edraki, N., Akbarzadeh, T., & Khanavi, M. K. (۲۰۲۴). Oleo-Gum-Resin of *Ferula persica*: Phytochemical Analysis and Enzyme Inhibitory Activity Related to Alzheimer's Disease. *Research Journal of Pharmacognosy*, 11(۴), ۳۹-۴۸.
 ۸. Bastin, A., Abbasi, F., Roustaei, N., Abdesheikhi, J., Karami, H., Gholamnezhad, **Eftekhari, M.** & Doustimotlagh, A. (۲۰۲۳). Severity of oxidative stress as a hallmark in COVID-۱۹ patients. *European Journal of Medical Research*, 28(۱), ۵۵۸.
 ۹. Salehi, V., Malekiasl, H., Azizi, M., Nouripour-Sisakht, S., Gharaghani, M., Saberinejad, A. A., **Eftekhari M** & Karimifard, F. (۲۰۲۳). *Oliveria decumbens* extract exhibits hepatoprotective effects against bile duct ligation-induced liver injury in rats by reducing oxidative stress. *Hepatitis Monthly*, 23(۱), e۱۳۱۱۶۰.
 ۱۰. **Eftekhari, M.**, Sohrabi, M., Balaei Kahnemoei, M., Oskou, F., Abdshahzadeh, H., Mansourian, M., ... & Akbarzadeh, T. (۲۰۲۳). Lichenochemical Analysis and Cytotoxicity of *Diploschistes ocellatus* (Fr.) Norman. *Research Journal of Pharmacognosy*, 10(۲), ۱-۸.
 ۱۱. Ahmadpour, V., Bahoosh, S. R., Jahanbani, P., & **Eftekhari, M.** (۲۰۲۳). Iran's commercial herbal products for managing COVID-۱۹: A review based on clinical trial-based approach. *Phytomedicine Plus*, ۱۰۰۴۹۴.
 ۱۲. Mohammadpour, M., Samadian, H., Moradi, N., Izadi, Z., **Eftekhari, M.**, Hamidi, M., ... & Elboutachfai, R. (۲۰۲۱). Fabrication and characterization of nanocomposite

- hydrogel based on alginate/nano-hydroxyapatite loaded with linum usitatissimum extract as a bone tissue engineering scaffold. *Marine drugs*, 20(1), ۲۰.
۱۳. Amin, M. N., Bahoosh, S. R., **Eftekhari, M.**, & Hosseinzadeh, L. (۲۰۲۲). Herbal sources of magnesium as a promising multifaceted intervention for the management of COVID-۱۹. *Natural Product Communications*, 17(۸), ۱۹۳۴
 ۱۴. Bahoosh, S. R., Shokoohinia, Y., & **Eftekhari, M.** (۲۰۲۲). Glucosinolates and their hydrolysis products as potential nutraceuticals to combat cytokine storm in SARS-COV-۲. *DARU Journal of Pharmaceutical Sciences*, 30(1), ۲۴۵-۲۵۲.
 ۱۵. Shakerinasab, N., Bejeshk, M. A., Pourghadamyari, H., Najafipour, H., **Eftekhari, M.**, Mottaghipisheh, J., & Doustimotlagh, A. H. (۲۰۲۲). The hydroalcoholic extract of Nasturtium officinale reduces lung inflammation and oxidative stress in an Ovalbumin-induced rat model of asthma. *Evidence-Based Complementary and Alternative Medicine*, 2022(1), ۵۳۱۹۲۳۷.
 ۱۶. Omidpanah S, Vahedi-Mazdabadi Y, Manayi A, Rastegari A, Hariri R, Mortazavi-Ardestani E, **Eftekhari M**, et al. Phytochemical investigation and anticholinesterase activity of ethyl acetate fraction of Myristica fragrans Houtt. seeds. *Natural Product Research*. ۲۰۲۲;۳۶(۲):۶۱۰-۶.
 ۱۷. Rastegari A, Manayi A, Rezakazemi M, **Eftekhari M**, Khanavi M, Akbarzadeh T, et al. Phytochemical analysis and anticholinesterase activity of aril of Myristica fragrans Houtt. *BMC chemistry*. ۲۰۲۲;۱۶(1):۱۰۶.
 ۱۸. Saeedi M, Iraj A, Vahedi-Mazdabadi Y, Alizadeh A, Edraki N, Firuzi O, **Eftekhari M**, et al. Cinnamomum verum J. Presl. Bark essential oil: in vitro investigation of anti-cholinesterase, anti-BACE۱, and neuroprotective activity. *BMC complementary medicine and therapies*. ۲۰۲۲;۲۲(1):۳۰۳.
 ۱۹. Jahanbani P, Shams Ardekani MR, **Eftekhari M**. Introducing the scholars of traditional medicine of Islam and Iran: Abu Hanifa Dinawari, the first Iranian Muslim botanist. *Journal of Islamic and Iranian Traditional Medicine*. ۲۰۲۲;۱۳(1):۵۱-۶۲.
 ۲۰. Almasian A, Najafi F, **Eftekhari M**, Shams Ardekani MR, Sharifzadeh M, Khanavi M. Preparation of Polyurethane/Pluronic F۱۲۷ Nanofibers Containing Peppermint Extract Loaded Gelatin Nanoparticles for Diabetic Wounds Healing: Characterization, In Vitro,

- and In Vivo Studies. Evidence-Based Complementary and Alternative Medicine. ۲۰۲۱;۲۰۲۱.
۲۱. Balaei-Kahnamoei M, **Eftekhari M**, Ardekani MRS, Akbarzadeh T, Saeedi M, Jamalifar H, et al. Phytochemical constituents and biological activities of *Salvia macrosiphon* Boiss. BMC chemistry. ۲۰۲۱;۱۵(۱):۱-V.
 ۲۲. Doustimotlagh AH, **Eftekhari M**. Glucose-۶-phosphate dehydrogenase inhibitor for treatment of severe COVID-۱۹: Polydatin. Clinical nutrition ESPEN. ۲۰۲۱;۴۳:۱۹۷-۹.
 ۲۳. **Eftekhari M**, Ardekani MRS, Amin M, Mansourian M, Saeedi M, Akbarzadeh T, et al. Anti-Helicobacter pylori Compounds from *Oliveria decumbens* Vent. through Urease Inhibitory In-vitro and In-silico Studies. Iranian journal of pharmaceutical research: IJPR. ۲۰۲۱;۲۰(۳):۴۷۶.
 ۲۴. **Eftekhari M**, Salehi A, Enayati A. Management of COVID-۱۹ by phytotherapy: a pharmacological viewpoint. J Rep Pharma Sci. ۲۰۲۱;۱۰(۱):۱۵۳.
 ۲۵. Gheitasi I, Motaghi N, Sadeghi H, Sadeghi H, Moslemi Z, **Eftekhari M**, et al. Antioxidant and anti-inflammatory effects of *Origanum majorana* L. methanolic extract on bile duct ligation in male rats. Evidence-Based Complementary and Alternative Medicine. ۲۰۲۱;۲۰۲۱.
 ۲۶. **Mahdieh Eftekhari**, Amir Hossein Doustimotlagh , Mohammad Hosein Farzaei,, YosifovaAneva I. Natural Products in Combination Therapy for COVID-۱۹: QT Prolongation and Urgent Guidance. Natural Product Communications. ۲۰۲۱.
 ۲۷. Monfared M, **Eftekhari M**, Amini S, Amini MH. Identifying appropriate therapeutic methods in covid-۱۹ originated from persian medicine: A review article. Indian Journal of Forensic Medicine & Toxicology. ۲۰۲۱;۱۵(۲):۲۸۲۸-۳۴.
 ۲۸. Moslemi Z, Bahrami M, Hosseini E, Mansourian M, Daneshyar Z, **Eftekhari M**, et al. *Portulaca oleracea* methanolic extract attenuate bile duct ligation-induced acute liver injury through hepatoprotective and anti-inflammatory effects. Heliyon. ۲۰۲۱;۷(V):e۰۷۶۰۴
 ۲۹. Shamim Fayazmanesh\, Tayebbeh Toliyat, **Mahdieh Eftekhari**, Gholamreza amin\, Mannan Hajimahmoodi\, Mahnaz Khanavi\, *. Preparation and Standardization of Vaginal Suppository from *Punica granatum* Flower Extract Known as “Golnar” in Persian Medicine. Indian Journal of Pharmaceutical Education and Research. ۲۰۲۱.

۳۰. Tofighi Z, Shahpar Y, Taheri A, Tavakoli S, Asatouri R, **Eftekhari M**, et al. Identification of isoflavonoids in antioxidant effective fraction of *Arum rupicola* Boiss. leaves. *Journal of Medicinal Plants*. ۲۰۲۱;۲۰(۷۹):۱۴-۲۳.
۳۱. Almasian A, Najafi F, **Eftekhari M**, Ardekani MRS, Sharifzadeh M, Khanavi M. Polyurethane/carboxymethylcellulose nanofibers containing *Malva sylvestris* extract for healing diabetic wounds: preparation, characterization, in vitro and in vivo studies. *Materials Science and Engineering: C*. ۲۰۲۰;۱۱۴:۱۱۱-۳۹.
۳۲. Doustimotlagh AH, Taheri S, Mansourian M, **Eftekhari M**. Extraction and identification of two flavonoids in *phlomoides hyoscyamoides* as an endemic plant of iran: the role of quercetin in the activation of the glutathione peroxidase, the improvement of the hydroxyproline and protein oxidation in bile duct-ligated rats. *Current computer-aided drug design*. ۲۰۲۰;۱۶(۵):۶۲۹-۴۰.
۳۳. Monfared M, **Eftekhari M**, Enayati A, Sabeti M, Amini MH. COVID-۱۹ disease management from the perspective of Traditional Persian Medicine. ۲۰۲۰.
۳۴. Saeedi M, Vahedi-Mazdabadi Y, Rastegari A, Soleimani M, **Eftekhari M**, Akbarzadeh T, et al. Evaluation of *Asarum europaeum* L. rhizome for the biological activities related to Alzheimer's disease. *Research Journal of Pharmacognosy*. ۲۰۲۰;۷(۳):۲۵-۳۳.
۳۵. **Eftekhari M**, Ardekani MRS, Amin M, Attar F, Akbarzadeh T, Safavi M, et al. *Oliveria decumbens*, a bioactive essential oil: Chemical composition and biological activities. *Iranian journal of pharmaceutical research: IJPR*. ۲۰۱۹;۱۸(۱):۴۱۲.
۳۶. **Eftekhari M**, Hoseinsalari A, Mansourian M, Farjadmand F, Shams Ardekani MR, Sharifzadeh M, et al. *Trachyspermum ammi* (L.) Sprague, superb essential oil and its major components on peptic ulcers: in vivo combined in silico studies. *DARU Journal of Pharmaceutical Sciences*. ۲۰۱۹;۲۷:۳۱۷-۲۷.
۳۷. **Eftekhari M**, Oskou, F., Tofighi, Z., Motevaseli, E., Jafari Nodooshan S, S., & Shams Ardekani, M. R. (۲۰۱۹). Alert for consumption of *Dorema aucheri*: An edible medicinal plant of Iran. *Journal of Medicinal Plants*, 18(۷۱), ۷۷-۸۴
۳۸. Izadpanah S, Abdolghaffari AH, Farjadmand F, **Eftekhari M**, Baeeri M, Rahimifard M, et al. Beneficial effects of *Trachyspermum ammi* (L.) sprague on rat irritable bowel syndrome. *Research Journal of Pharmacognosy (RJP)*. ۲۰۱۹;۶(۲):۵۷-۶۶.

۳۹. F. Farjadmand , M. Khanavi, **M. Eftekhari**, A. Hosseinsalari , T. Akbarzadeh, M. Safavi, R. Asatouri , M. Mirabzadeh , M.R. Shams Ardekani(۲۰۱۸) The Effect of Extraction Method on the Major Constituents and Biological Effects of *Trachyspermum ammi* L. Fruits. Research Journal of Pharmacognosy (RJP). ۵(۱)
۴۰. : **Mahdieh Eftekhari** , Mohammad Reza Shams Ardekani , Mohsen Amini , Tahmineh Akbarzadeh, Maliheh Safavi , Elahe Karimpour Razkenari , Mahnaz Khanavi(۲۰۱۷) Biological activities of the essential oil and total extract of *Salvia macrosiphon* Boiss. Journal of Basic and Clinical Pharmacy
۴۱. Farid, R., Mahnaz, K., Ardekani Mohammad Reza, S., Börje, S., **Mahdieh, E.**, Hossein, R., & Maryam, S. (۲۰۱۷). Molecularly Imprinted Polymer of Colocynthin, An Effective Tool for Quality Control of Citrullus colocynthis Extracts. *Current Drug Discovery Technologies*, 14(۳), ۱۶۹-۱۸۰.
۴۲. Khanavi, M., Maadani, S., Farahanikia, B., **Eftekhari, M.**, & Sharifzadeh, M. (۲۰۱۷). Effect of the methanolic extracts of different parts of Ferula assa-foetida on naloxone-induced withdrawal behavior in morphine-dependent mice. *Avicenna Journal of Phytomedicine*, 7(۵), ۴۲۶.
۴۳. **Eftekhari, M.**, Ardekani, M. S., Amini, M., Akbarzadeh, T., Safavi, M., Razkenari, E. K., & Khanavi, M. (۲۰۱۷). Biological activities of the essential oil and total extract of Salvia macrosiphon Boiss.
۴۴. Ostad, S. N., Rajabi, A., Khademi, R., Farjadmand, F., **Eftekhari, M.**, Hadjiakhoondi, A., & Khanavi, M. (۲۰۱۶). Cytotoxic potential of Centaurea bruguierana ssp. belangerana: The MTT assay. *Acta Medica Iranica*, ۵۸۳-۵۸۹.

Conference papers

۱. VahidehAhmadpour , Masoud Modarresi , **Mahdieh Eftekhari**. Isolation of hesperidin from orange peel and its antifungal activity against dermatophytes. ۲۵ Iranian Pharmacy Students Seminar ۲۰۲۵, Ahvaz. Iran
۲. Avin karimi, **Mahdieh Eftekhari**, Saba Rahimi Bahoosh , Leila Hosseinzadeh, Fereshteh jalilian. Assessment of the Impact of alpha-pinene-rich essential oils derived from various plants on oxidative stress caused by hydrogen peroxide in

- PC12 cells, In contrast to pure alpha-pinene. 20 Iranian Pharmacy Students Seminar 2020, Ahvaz. Iran
۳. Mohammad-Sajjad Ataei, **Mahdieh Eftekhari**, Dana Khalid Abdullah, Mohammad Hosein Farzaei, Vahideh Ahmadpour. Protective impact of hydroalcoholic extract of *Oliveria decumbens* in an animal model of ulcerative colitis. *Iranian Pharmacognosy congress 2024*. Tehran, Iran.
 ۴. Mohammad-Sajjad Ataei, **Mahdieh Eftekhari**, Fatemeh Eskandari, Mahnaz Khanavi, Mohammad Reza Shams Ardekani, Tahmineh Akbarzadeh, Evaluation of cytotoxic effect of different aerial parts of *Oliveria decumbens* on breast cancer cell lines and evaluation of effective fraction phytochemistry. *Iranian Pharmacognosy congress 2024*. Tehran, Iran.
 ۵. Isolation and identification of mannitol from *Oliveria decumbens* Vent. Nasim Jamshidi, **Mahdieh Eftekhari**, Mahnaz Khanavi, Mohammad Reza Shams Ardekani, *Iranian Pharmacognosy congress 2024*. Tehran, Iran.
 ۶. Saba Rahimi Bahoosh, **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani. Evaluation of Cytotoxic Effect of total extract of *Daphne mucronata* in breast cancer cell lines. National Congress on Medicinal Plants 2023. Tehran, Iran.
 ۷. Vahideh Ahmadpour, **Mahdieh Eftekhari**, and MahnazKhanav. Anticholinesterase Potential of Essential Oil of *Juniperus excelsa* M. Bieb. Leaves. Natural Product Conference 2022. Karachi, Pakistan
 ۸. **Mahdieh Eftekhari**, Fatemeh Oskou, Helia Abdesahzadeh, Herbal bio enhancer in Iranian traditional medicine. 8th National Congress on Medicinal Plants. April 2019. Tehran, Iran.
 ۹. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani, Mahnaz Khanavi, Mohsen Amini. The effect of collection time on essential oil of *Oliveria decumbens* Vent. 1th Iranian Pharmacognosy congress 2017, Nov 29-30, Tehran, Iran.
 ۱۰. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani, Mohammad Sohrabi, Gohar Baghbani, Mahnaz Khanavi. Ethnolichenology survey in Kohgiluyeh and Boyer-Ahmad province in Southwest of Iran. 9th Natural Product Conference 2016. July 24-27, Copenhagen, Denmark.

۱۱. **Mahdieh Eftekhari**, Elahe Karimpour Razkenari, Mohammad Reza Shams Ardekani , Tahmineh Akbarzadeh, Mohsen Amini, Mahnaz Khanavi. Chemical composition and cytotoxic activity of *Salvia macrosiphon* Boiss. essential oil. ۹th Natural Product Conference ۲۰۱۶. July ۲۴-۲۷, Copenhagen, Denmark.
۱۲. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani, Mahnaz Khanavi, Shabnam Faridfar, Afsane Hosseinsalari . Antioxidant capacity and total phenolic content of *Salvia macrosiphon*: The precious plant in Iranian traditional medicine. ۵th National Congress on Medicinal Plants. ۱۸th and ۱۹th of May ۲۰۱۶. Isfahan, Iran.
۱۳. Fatemeh Oskou, Zahra Tofighi, **Mahdieh Eftekhari**, Azad Rastgar. Biological investigations on an endangered species, *Dorema aucheri* from Kohgiluyeh And Boyer-Ahmad. ۵th National Congress on Medicinal Plants. ۱۸th and ۱۹th of May ۲۰۱۶. Isfahan, Iran.
۱۴. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani ,Elahe Karimpour Razkenari, Mahnaz Khanavi. Investigation of_cytotoxic activity of precious medicinal plant, *Fritillaria imperialis* L. against cancer cell lines. ۵th National Congress on Medicinal Plants. ۱۸th and ۱۹th of May ۲۰۱۶. Isfahan, Iran.
۱۵. Vazirian, Mehdi, Shabnam Faridfar, **Mahdieh Eftekhari**. "“Gharikon”/” Agharikon” a Valuable Medicinal Mushroom in Iranian Traditional Medicine." *Iranian journal of medical sciences* ۴۱, no. ۳ Suppl (۲۰۱۶): S۳۴.
۱۶. **Mahdieh Eftekhari**, Mahnaz Khanavi , Mohsen Amini , Mohammad Reza Shams Ardekani , “*Oliveria decumbens* Vent.” an endemic Iranian plant: Investigation of the ethnobotany and chemical composition . ۴th **Iranian Pharmaceutical Sciences** Congress ۲۰۱۵. ۲۱-۲۴ December, Tehran, Iran.
۱۷. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani , Mahnaz Khanavi , Mohammad Sohrabi, Afsane Hosseinsalari. Lichens: Introducing and Applications in Iranian Traditional Medicine. ۴th **Iranian Pharmaceutical Sciences** Congress ۲۰۱۵. ۲۱-۲۴ December, Tehran, Iran.
۱۸. **Mahdieh Eftekhari**, Mohammad Reza Shams Ardekani , Mahnaz Khanavi ,Fateme Farjadmand. Antioxidant capacity and total phenolic content of precious, endemic Iranian plant: *Oliveria decumbens* Vent. ۱ ۴th **Iranian Pharmaceutical Sciences** Congress ۲۰۱۵. ۲۱-۲۴ December, Tehran, Iran.

Teaching Experience

۱. Teaching “Pharmacognosy” and “Medicinal plants” courses for undergraduate students of pharmacy
 ۲. Teaching “Practical Pharmacognosy” and “Practical Medicinal plants” courses for undergraduate students of pharmacy
 ۳. Teaching “Herbal quality control”, “Phytotherapy”, “Industrial processing of herbal medicines” and “Research Methods” courses for PhD students of pharmacognosy
 ۴. Scientific lecturer on “Herbal medicine Pregnancy and lactation”, Retraining program for professional pharmacists, Kermanshah University of medical science.
 ۵. Scientific lecturer on “Herbal Products in the Management of Obesity”, Retraining program for professional pharmacists, Kermanshah University of medical science.
 ۶. Scientific lecturer on “Herbal medicine in gastrointestinal disorders”, Retraining program for professional pharmacists, Tehran University of medical science.
 ۷. Scientific lecturer on “Herbal medicine in skin disorders”, Retraining program for professional pharmacists, Tehran University of medical science.
 ۸. Scientific lecturer on “Herbal medicine in urologic disorders”, Retraining program for professional pharmacists, Tehran University of medical science.
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