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DATE and PLACE of BIRTH Apr,10,1979,Tehran

MARITAL STATUS Married, 2000

EDUCATION

High School: Haddad adel high school, Tehran 1994-1997

University: Mazandran university, faculty of pharmacy, **Pharm.D.**
(GPA 17 from 20) 1997-2002

Tehran university, faculty of pharmacy, department
of pharmacognosy **Ph.D** 2003-2008

Associate Professor, Medicinal Plants Research Center,
Institute of Medicinal Plants, ACECR, Karaj, Iran 2012

LICENSURE AND CERTIFICATION

Pharmaceutical sciences research center & medical nanotechnology
research center, Workshop on EndNote 2005

Pharmaceutical sciences research center, workshop on scientific writing. 2005

PROFESSIONAL ACTIVITIES

Deputy of Technology, Medicinal Plants Technology incubator, ACECR 2008- 2014

Deputy of Research & education, Institute of Medicinal Plants, ACECR 2010-2020

Cooperating in experimental class of phrmacognosy.

Cooperating in experimental class of herbal medicine.

Consulting in Pharm. D. Thesis

Consulting in Ph.D. Thesis

THESIS

Pharm.D. Thesis Synthesis of moclobmide analog from, Benzotiofene
Mazandran university, faculty of pharmacy,
department of medicinal chemistry: Prof. Mousavy
and Pro. Ebrahimzadeh. 2000-2002

Ph.D. Thesis Cytotoxic activity and matrix metalloproteinase
inhibitory effects of *Scrophularia striata* Boiss 2004-2008

aerial parts and study of active compounds, Tehran university, Faculty of pharmacy, Department of pharmacognosy: Prof. Monsef esfehiani, Prof. Amini, Prof. Khorramizadeh.

ABSTRACT OF PhD THESIS

After collecting from the eastern north of Iran, aerial part of *Scrophalaria striata* was extracted we got two kinds of extract from this: total extract and sequential extracts. Sequential extracts included petroleum ether phase, chloroform phase, ethyl acetate phase and methanol phase. All of them were tested with zymoanalysis and cytotoxicity.

Zymoanalysis has been used for the detection of gelatinase (collagenase type-IV or matrix metalloproteinase type-2, MMP-2) and MMP-9 in conditioned media. Briefly, aliquots of conditioned media were subjected to electrophoresis in a gelatin-containing polyacrylamide gel, in the presence of sodium dodecyl sulfate (SDS) under non-reducing conditions. The IC₅₀ for the MMP inhibitory effect was calculated as doses at which 50% of MMP inhibition occurred relative to untreated control cells.

In the cytotoxicity assay, cells in the exponential phase of growth were incubated for 24h at 37°C with 5% CO₂ with a serial dilution of extract. Cell proliferation was evaluated by a modified Crystal Violet colorimetric assay. We investigated cytotoxic effect of them on wehi 164-cell (the Fibrosarcoma cell line). We continue to purify them until we identify one or more compounds that will be inducement of that effect.

CONFERENCE

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- R.Hajiaghaee, N.Ashoury; Lookout of Gozgani about tiphoid. In: Said Smail Gozgani appreciation conference. Desember, 2002
- Monsef-Esfahani HR, Amanzade Y, Hajiaghaee R, Mahdavi F. Concentration of Grapefruit Essential oil by Fractional Distillation. 54th Annual Congress Medicinal Plant Research; 72: 1078 2006
- Shahverdi A.R., Alimirzaee P., Gohari A.R., Hajiaghaee R., Monsef-Esfahani H.R. Enhancement of the antibacterial activity of ampicillin against *Staphylococcus aureus* by 1-Methyl malate from *Berberis integerrima* fruits, 7th Joint Meeting of AFERP, ASP, GA, PSE & SIF, PA392. 2008
- shakeri-parvaneh A.A., Habibi D., rezazadeh Sh., Hajiaghaee R., Isolation and structure elucidation of alkaloids of *colchicum speciosum*, 16th Iranian Conference of Organic Chemistry, Zanjan University, 18-20th august. 2009

- Azadmehr A, Afaghi A, Hajiaghaei R. Anticancer activity and apoptosis induction in human tumor cell lines by *Scrophularia megalantha* extract, Clinical oncology conference. P:36. 2010
- Hajiaghaei R., Alavi H.R., Agha- Mohammadzade S., Ashoury N., Rezazadeh Sh., Shaker A.A., Study of chemical constituents and antimicrobial activity of essential oil of *Thymus caucasicus*, 17th Seminar of Organic Chemistry, 2010 Oct, 601. 2010
- Hajiaghaei R., Azadmehr A., Evaluation of immunomodulatory effects of *Scrophulria striata* extract on immune system, Medicinal Plants National Congress, 2011 March. 2011
- Monsef-Esfahani H., Hajiaghaei R., Shahverdi A.R., Khorramizadeh M., Amini M., Two matrix metalloproteinase inhibitors from *Scrophularia striat* Boiss, 59th International Congress of GA 4th-9th September 2011. 2011
- Khosravi S., Mehrafarin A., naghdibadi H.A., Hajiaghaei R., khosravi M.T., Phytochemical study of *Melissa officinalis* in response to spray of methanol and ethanol, National Conference on Modern Agricultural Sciences & Technologies (MAST), Zanjan, august. 2011
- khosravi M.T., Mehrafarin A., naghdibadi H.A., Hajiaghaei R., Khosravi S., Studu of spray alcohols on the performance of *Echinacea purpurea* as a new approach medicinal plant, National Conference on Modern Agricultural Sciences & Technologies (MAST), Zanjan, august. 2011
- khosravi M.T., Mehrafarin A., naghdibadi H.A., Hajiaghaei R., Khosravi S., Spray of alcohols as a new method of production efficiency and performance of plants, 1st Iranian Congress on Herbal Drugs, October, Islamic Azad University, Shahrekord branch. 2011
- khosravi M.T., Mehrafarin A., naghdibadi H.A., Hajiaghaei R., Khosravi S., The effect of methanol and ethanol on *Echinacea purpurea* performance in Karaj, 1st Iranian Congress on Herbal Drugs, October, Islamic Azad University, Shahrekord branch. 2011
- Khosravi S., Mehrafarin A., naghdibadi H.A., Hajiaghaei R., khosravi M.T., Study of phytochemical responses to the treatment *Melissa officinalis* hydroalcoholic methanol and ethanol solution, 1st Iranian Congress on Herbal Drugs, October, Islamic Azad University, Shahrekord branch. 2011
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- Khosravi M.T., Mehrafarin A., Naghdibadi H., Hajiaghaei R., Khosravi E., 2012
PHYTOCHEMICAL RESPONSE OF PURPLE CONEFLOWER (*ECHINACEA PURPUREA* L.) TO FOLIAR APPLICATION OF HYDROALCOHOLIC SOLUTIONS IN KARAJ REGION, National Congress on Medicinal Plants, 16, 17 May, Kish Island.
- Khosravi M.T., Mehrafarin A., Naghdibadi H., Hajiaghaei R., Khosravi E., 2012
REACTIONS OF THE RELATIVE WATER CONTENT, CHLOROPHYLL, LEAF WEIGHT AND AREA OF *ECHINACEA PURPUREA* L. TO FOLIAR APPLICATION OF METHANOL AND ETHANOL SOLUTIONS, National Congress on Medicinal Plants, 16, 17 May, Kish Island.
- Khosravi M.T., Mehrafarin A., Naghdibadi H., Hajiaghaei R., Khosravi E., 2012
SURVEY OF ALCOHOLIC FOLIAR APPLICATION ON REPRODUCTIVE YIELD OF PURPLE CONEFLOWER (*ECHINACEA PURPUREA* L.), National Congress on Medicinal Plants, 16, 17 May, Kish Island.
- *Khosravi E., Mehrafarin A., Naghdibadi H., Hajiaghaei R., Khosravi M.T., Qaderi A., YIELD CHARACTERISTICS OF *MELISSA OFFICINALIS* L. AT RESPONSE TO THE FOLIAR APPLICATION OF METHANOL AND ETHANOL SOLUTIONS, National Congress on Medicinal Plants, 16, 17 May, Kish Island.
- Khosravi M.T., Mehrafarin A., Naghdibadi H., Hadavi E., Hajiaghaei R., Khosravi E., Phytochemical and growth responses of purple coneflower (*Echinacea purpurea* L.) to hydroalcoholic solutions, 2012 International Congress on Natural Products Research, July 28- August 1, New York City.
- Khosravi E., Mehrafarin A., Naghdibadi H., Khosravi M.T., Hajiaghaei R., The phytochemical response of lemon balm (*Melissa officinalis* L.) to methanol and ethanol hydroalcoholic solutions, 2012 International Congress on Natural Products Research, July 28- August 1, New York City.
- Monsef Esfahani H., Hajiaghaei R., Shahverdi A., Khorramizadeh M., Amini M., Two matrix metalloproteinase inhibitors from *Scrophularia striata* Boiss, 2012 International Congress on Natural Products Research, July 28- August 1, New York City.
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- Shahneh F.Z., Baradaran B., Moradi S., Azadmehr A., Hajiaghaei R., 2013

- Studies on inhibitory and cytotoxic activities of *Salvia officinalis* L. extract on cancer cells by induction of apoptosis, 15th International Congress of Immunology, August 22-27 2013, Milan, Italy.
- Shahneh F.Z., Baradaran B., Azadmehr A., Hajiaghaee R., Cytotoxic and apoptotic effects of Persian herbal plants against the fibrosarcoma (WEHI-164) cell line: in vitro analysis, 1st Tabriz International Life Science Conference and 12th Iran Biophysical Chemistry Conference, 22nd to 24th of May 2013, Tabriz. 2013
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- Mehrabi S., Naghdi Badi H., Mehrafarin A., Hajiaghaee R., EFFECTS OF METHANOL AND BIO-STIMULATORS AS GROWTH PROMOTERS FOR BIOMASS AND GROWTH CHARACTERS OF SAVORY (*SATUREJA HORTENSIS* L.), 2nd National Congress on Medicinal Plants, 15, 16 May 2013, Tehran- Iran. 2013
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- Aghamohammadali Saraf F., Badiei S., Hajiaghaee R., Faraji Z., Mohammadirad A., Baeri M., Gholami M., Abdollahi M., EFFECTS OF ANTIAGING (*ALOE VERA*, *SATUREJA HORTENSIS*, *TEUCRIUM SCORDIUM*) AND MIXTURE OF THEM ON D-GALACTOSE INDUCED AGING IN MALE MICE, 2nd National Congress on Medicinal Plants, 15, 16 May 2013, Tehran- Iran. 2013
- Azadmehr A., Hajiaghaee R., Maliji Gh., Cell cycle arrest and induction of apoptosis 2014

by *scrophularia striata* in human breast cancer cell line, 12th International Congress of Immunology & Allergy of Iran, 29th April-2nd May, 2014, Tehran- Iran.

Azadmehr A., Sofiabadi M., Hajiaghaee R., Shahnazi M., Scrophularia megalanta extract have inhibitory effect on pro-inflammatory cytokines production and analgesic effect, 12th International Congress of Immunology & Allergy of Iran, 29th April-2nd May, 2014, Tehran- Iran. 2014

Azadmehr A., Godarznabd M., Hajiaghaee R., Nouri R., Maliji Gh., Immunomodulatory effects of *Scrophularia megalanta* to inhibit the autoimmune disease Multiple Sclerosis, 3rd National Congress on prevention & Treatment by Complementary medicine, Isfahan- Iran; 19-21 Oct. 2014. 2014

Azadmehr A., Ziaee A., Ghanei L., Hajiaghaee R., Shahnazi M., Kordafshary G., Examine the effects on blood glucose levels and hemoglobin HbA1c frankincense resin type II diabetic patients, 3rd National Congress on prevention & Treatment by Complementary medicine, Isfahan- Iran; 19-21 Oct. 2014. 2014

Norouzie Sh., et al., Anti toxoplasma activity of wormwood extract in vitro, THE 23rd IRANIAN CONGRESS ON INFECTIOUS DISEASES AND TROPICAL MEDICINE 12-16 Jan.2015. 2015

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Shahnazi M.; Azadmehr A.; Latifi R.; Hajiaghaee R.; Mosalla S.; Saraei M.; Alipour M.; EVALUATION OF THE PROTOSCOLICIDAL EFFECTS OF ECHINACEA PURPUREA EXTRACT AT DIFFERENT CONCENTRATIONS AND EXPOSURE TIMES; 2nd International and 9th National Congress of Parasitology and Parasitic Diseases of Iran (NICOPA 9) Guilan, Iran; 20-22 May 2015. 2015

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- pourhadi M.; Naghdi Badi H.; Mehrafarin A.; Omidi H.; Hajiaghaei R.; INFLUENCE OF BIO- REGULATORS ON MORPH-PHYSIOLOGICAL TRAITS OF PEPPERMINT (*MENTHA PIPERITA* L.); 5th National Congress on Medicinal Plants 18, 19 May 2016 Isfahan- Iran. 2016
- Akhbari M.; Yassa N.; Delnavazi MR.; Hadjiakhoondi A.; Tavakoli S.; Hajiaghaee R.; STUDY OF ANTIMICROBIAL ACTIVITY FOR ESSENTIAL OIL OF *FERULAGO TRIFIDA* BOISS FROM ALAMUT REGION; 5th National Congress on Medicinal Plants 18, 19 May 2016 Isfahan- Iran. 2016
- Akhbari M.; Yassa N.; Delnavazi MR.; Hadjiakhoondi A.; Tavakoli S.; Hajiaghaee R.; CHEMICAL COMPOSITION OF THE ESSENTIAL OILS FROM DIFFERENT PARTS OF *FERULAGO TRIFIDA* BOISS.; 5th National Congress on Medicinal Plants 18, 19 May 2016 Isfahan- Iran. 2016
- Akhbari M.; Hajiaghaee R.; Yaghoobi M.; Ghafarzadegan R.; EFFECT OF *MENTHA PIPERITA* EXTRACT CONCENTRATION, REACTION TIME AND TEMPERATURE ON THE YIELD AND SIZE OF GREEN SYNTHESIZED IRON NANOPARTICLES; 5th National Congress on Medicinal Plants 18, 19 May 2016 Isfahan- Iran. 2016
- Pourhadi M.; Naghdi Badi H.; Mehrafarin A.; Omidi H.; Hajiaghaee R.; Rafiee H.; Roodbaraky M.; Taghi Khosravi M.; Effect of biostimulants application on leaves and phytochemical traits of *Mentha piperitha* L. under farm conditions; The 3rd World Congress on the use of Biostimulants in Agriculture; 27-30th November 2017 Miami Florida (USA). 2017
- Kashefi M.; Ghasemi SV.; Ghorbani Nohooji M.; Hajiaghaee R.; DETERMINATION OF TOTAL PHENOLIC AND FLAVONOID CONTENT WITH ASSESSMENT OF ANTIOXIDANT ACTIVITY OF *LAMIUM AMPLEXICAULE*; 6th National Congress on Medicinal Plants 9-10th May 2017 Tehran, Iran. 2017
- Mirshokraei SA.; Tavoosi F.; Ghafarzadegan R.; Hajiaghaee R.; GREEN SYNTHESIS OF IRON NANOPARTICLES USING EXTRACT OF *MENTHA LONGIFOLIA*; 6th National Congress on Medicinal Plants 9-10th May 2017 Tehran, Iran. 2017
- Bayrami Z.; Hajiaghaee R.; Khalighi-Sigaroodi F.; Rahimi R.; Farzaei MH.; Abdollahi M.; BIO-GUIDED FRACTIONATION OF ACTIVE COMPONENT OF *TRAGOPOGON GRAMINIFOLIUS* WITH WOUND HEALING EFFECT; 6th National Congress on Medicinal Plants 9-10th May 2017 Tehran, Iran. 2017
- Bayrami Z.; Khalighi-Sigaroodi F.; Rahimi R.; Farzaei MH.; Hodjat M.; 2017

- Baeeri M.; Rahimifard M.; Navaei-nigjeh M.; Abdollahi M.; Hajiaghaee R.;
In vitro wound healing activity of luteolin; First Iranian Pharmacognosy Congress;
Nov 29-30, 2017 Tehran, Iran.
- Khalighi-Sigaroodi F.; Mirzakhanelouei S.; Ghafarzadegan R.; Hajiaghaee R.; 2017
Mohammadnezhad A.; Encapsulation of thyme essential oil in polymeric capsules using
electrospray method; First Iranian Pharmacognosy Congress; Nov 29-30, 2017 Tehran, Iran.
- Tajabadi F.; Ghorbani Nohooji M.; Hajiaghaee R.; Reliable Identification of 2018
Trace Components of *Lamium amplexicaule* L. Essential Oil Using Curve
Resolution Method-Assisted GC-MS; 7th National Congress on Medicinal Plants;
12-14th May 2018 Shiraz, Iran.
- Mohammadnezhad A.; Ghaffarzadegan R.; Rezazadeh Sh.; Hajiaghaee R.; 2018
Study of Using Different Plant Meal, Defatting Procedures and Solvents to Obtain
Standard Extract of Silymarin from the Seeds of Milk Thistle; 7th National Congress on
Medicinal Plants; 12-14th May 2018 Shiraz, Iran.
- Mehrafarin A.; Naghdi Badi H.; Qaderi A.; Tavacoli M.; Hajiaghaee R.; Azrah A.; 2018
Comparative Study of Quantity and Quality Changes in the Essential Oil of *Mentha
piperita* L. under Soil Cultivation, Ebb and Flow System; 7th National Congress on Medicinal
Plants; 12-14th May 2018 Shiraz, Iran.
- Pournaghi N.; Khalighi-Sigaroodi F.; Safari E.; Hajiaghaee R.; 2018
Investigation of Cytotoxicity Effect of *Caesalpinia bonduc* on Prostate Cancer
Cell Line; 7th National Congress on Medicinal Plants; 12-14th May 2018 Shiraz, Iran.
- Saeed Tavakoli; Narguess yassa; Mohammad-Reza Delnavazi; Farahnaz 2019
Khalighi-Sigaroodi; Abbas Hadjiakhoondi; Maryam Akhbari; Fereshteh Heydari;
S. Fatemeh Shirmardi; Reza Hajiaghaee; Flavonoids from Aerial Parts of *Ferulago
trifida* Boiss.; 8th National Congress on Medicinal Plants; 24, 25th April 2019 Tehran, Iran.

RESEARCH PROJECTS

- The effect of *scrophularia striata* on the nitric oxide system 2005-2007
in the rat hippocampal cell: *in vitro* study.
- Quantitative and qualitative investigation on essential oil of 2005-2006
Laurus nobilis, Using hydro distillation and steam distillation
methods, during phenological stages.
- Cytotoxicity and active components of *Scrophularia striata* Boiss aerial parts. 2005-2008
- Anti-inflammatory effects of some Iranian Alkana species. 2005-2007

Cytotoxic and proliferative of some native Iranian plants.	2005-2007
Study of flavonoid in four parts of <i>Tribulus terrestris L.</i>	2005-2008
Investigating antioxidant effects of Iranian <i>Alkana</i> and <i>Scrophularia</i> species.	2005-2007
Study and Documentation of Antimicrobial Plants in order to Altering of Synthetic Antibiotics	2009- 2010
Evaluation of immunomodulatory effects of <i>Scrophulria striata</i> extract on immune syste	2008- 2010
Study of chemical constituents and antimicrobial activity of essential oil of <i>Thymus caucasicus</i> and <i>Thymus transcausicus</i>	2008- 2010
Study on the possible effects of <i>Teucrium persica</i> on the TNBS-induced colitis by measuring macroscopic, biochemical and immune markers	2008-2010

PUBLICATION

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Hajiaghaee Reza, Monsef-Esfahani Hamid R, Khorramizadeh Mohammad R, Saadat Farshid, Shahverdi Ahmad R, Attar Farideh. Inhibitory effect of aerial parts of *Scrophularia striata* on matrix metalloproteinases expression. Phytotherapy research : PTR. 2007 Dec;21(12):1127-9.

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Azadmehr A.; Afshari A.; Baradaran B.; Hajiaghaee R.; Rezazadeh S.A.; Monsef-Esfahani H.R.; Suppression of nitric oxide production in activated murine peritoneal macrophages in vitro and

ex vivo by *Scrophularia striata* ethanolic extract; Journal of Ethnopharmacology; 2009; 124 (1): 166-169.

Monsef-Esfahani H.R.; Sharifi Mogadam E.; Amini M.; Faramarzi M.A.; Shahverdi A.R.; Hajiaghaei R.; Antimicrobial Activity of Total Extract and Fractions of *Geum kokanicum*; Journal of Medicinal plants; 2009; 8 (30): 145-151.

Matin Yekta M.; Alavi S.H.R.; Hadjiaghaei R.; Ajani Y.; Flavonoid glycosides from *Tribulus terrestris* L. orientalis; Iranian Journal of Pharmaceutical Sciences; 2008; 3 (4): 231-236.

Monsef-Esfahani H.R.; Hajiaghaei R.; Shahverdi A.R.; Khorramzadeh M.R.; Amini M.; Flavonoids, cinnamic acid and phenyl propanoid from aerial parts of *Scrophularia striata*; Pharmaceutical Biology; 2010; 48 (3): 333-336.

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Teimori M.; Montasser Kouhsari S.; Ghafarzadegan R, Hajiaghaei R.; Study of hypoglycemic action of *Juglans regia* leaves methanolic extract and its mechanism; Journal of Medicinal plants; 2010; 9 (6): 57-65.

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Shahreari Sh.; Khaki A.; Ahmadi-Ashtiani H.R.; Rezazadeh Sh.; Hajiaghaei R.; Effects of *Danae racemosa* on Testosterone Hormone in Experimental Diabetic Rats; Journal of Medicinal plants; 2010; 9(35): 114-119.

Teimuri M.; Kuhsari S.M.; Ghafarzadeganreza R.; Hajiaghaei R.; Antidiabetic Effects of *Juglans regia* Leave's Methanolic Extract on Alloxan-induced Male Wistar Rats; Journal of Medicinal plants; 2010; 9(34): 142-149.

Khaki A.; Khaki A.A.; Fathiazad F.; Ahmadi – Ashtiani H.R.; Rastegar H.; Imani A.M.; Hajiaghaei R.; Evaluation of *Ocimum basilicum* Effects on Uterus Apoptosis in Rats Exposures in Electromagnetic Fields; Journal of Medicinal plants; 2010; 9(36): 155-160.

Monsef-Esfahani H.R.; Miri A.; Amini M.; Amanzadeh Y.; Hadjiakhoondi A.; Hajiaghaei R.; Ajani Y.; Seasonal Variation in the Chemical Composition, Antioxidant Activity and Total Phenolic Content of *Tucrium Persicum* Boiss. Essential Oils; Research Journal of Biological Sciences; 2010; 5 (7): 492-498.

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LANGUAGE

Persian

Flouant in english

COMPUTER SKILLS

Microsoft office (word, Excel, access, PowerPoint)

SPSS

Endnote