

Mahboob Nemati

Professor of Food Chemistry and Medical Hydrology

Personal details:

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Academic qualifications:

Pharm. D: 1997, from Tehran University of Medical Sciences, Tehran, Iran

PhD: 2003, in Food Chemistry and Medical Hydrology, from Tehran University of Medical Sciences, Tehran, Iran

Post-Doc: 2003, in Food Chemistry and Medical Hydrology, from Kyoto University, Kyoto, Japan

Positions held:

1997-2003: Instructor in Food Chemistry and Medical Hydrology, Tehran University of Medical Sciences, Tehran, Iran

2003- 2008: Assistant professor of Food Chemistry and Medical Hydrology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz-IRAN.

2008-2012: Associate professor of Food Chemistry and Medical Hydrology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz-IRAN.

2012-present: professor of Food Chemistry and Medical Hydrology, Faculty of Pharmacy, Tabriz University of Medical Sciences, Tabriz-IRAN.

Research experiences:

- 1.** Nutritional value of Food samples
- 2.** Quality control of Bottled mineral waters
- 3.** Assessment of effect of natural mineral waters on patients with renal stones

- 4. Drug residue in food samples**
- 5. Extraction and analysis of Nutraceuticals in Food samples**
- 6. Determination of Mycotoxins, PAHs, Food contact materials in Food samples**

Current Research:

Food analysis & Control (Nutritional value, additives, contaminants, adulteration)

Nutraceuticals & Functional Foods (analysis)

Mineral waters & Hydrotherapy (Therapeutic effects of mineral waters)

Teaching experiences:

Bromatology (Food Science)

Nutrition and Diet therapy

Food Analysis & Control

Enzyme Chemistry and Food Applications

Nutraceuticals and Functional Foods

Food Toxicology

Hydrology and Hydrotherapy

Books:

Contributing in publication of the book entitled: *Food and Drug Interactions*, In Persian, ISBN 964-6022-64-2.

Publications:

- 1) Farajzadeh, M.A., Mohebbi, A., Pazhohan, A., **Nemati, M.**, Afshar Mogaddam, M.R., Air-assisted liquid-liquid microextraction; principles and applications with analytical instruments, *TrAC - Trends in Analytical Chemistry*, 2020, 122,115734.

- 2) Ghalebi, M., Tamizi, E., Ahmadi, S., Sheikhloo, A., **Nemati, M.**, Dispersive liquid-liquid microextraction technique for the pre-concentration and quantification of vitamin D3 in milk and yogurt samples using a non-aqueous HPLC method, *Iranian Journal of Pharmaceutical Research*, 2019, 18(2): 677-685.

- 3) Taghvimi, A., Hamidi, S., **Nemati, M.**, Magnetic dispersive solid phase microextraction technique coupled with LC-MS/MS for evaluating content versus label claims in ephedrine-free food supplements, *Journal fur Verbraucherschutz und Lebensmittelsicherheit* 2019,14(3): 275-282.

- 4) Ghaderi, F., **Nemati, M.**, Siah-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Evaluation the effect of amine type on the non-isothermally derived activation energy for the interaction of 3 antidepressant drugs with lactose, *Advanced Pharmaceutical Bulletin*, 2019, 9(2): 289-293.

- 5) Mohebbi, A., Farajzadeh, M.A., **Nemati, M.**, Sarhangi, N., Afshar Mogaddam, M.R., Development of green sodium sulfate-induced solidification of floating organic droplets-dispersive liquid phase microextraction method: Application to extraction of four antidepressants, *Biomedical Chromatography*, 2019, 33(11): e4642

- 6) Hassannejad, M., Alizadeh, K., **Nemati, M.**, Determination of 17- β -Estradiol in water samples using salting-out assisted liquid-liquid extraction followed by hplc and experimental design for optimization, *Analytical and Bioanalytical Chemistry Research*, 2019; 6(2): 353-363.

- 7) Ghaderi, F., **Nemati, M.**, Siah-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Determination of thermokinetic and thermodynamic parameters of alprazolam-lactose interaction based on non-isothermal DSC studies, *Pharmazeutische Industrie*, 2019; 81(2): 256-261.

8) **Hamidi, S., Nemati, M., Terephthalic acid determination in mineral water stored in PET bottles using a novel magnetic dispersive micro solid-phase extraction followed by high-performance liquid chromatography, Journal fur Verbraucherschutz und Lebensmittelsicherheit 2019, 14(2):173-177.**

9) **N Rezaee Moghadam, A Javadi, F Lotfipur, M Ansarin, E Tamizi, M Nemati, Determination of Enrofloxacin and Ciprofloxacin residues in five different kind of chicken tissues by dispersive liquid–liquid microextraction coupled with HPLC, Iranian Journal of Pharmaceutical Research, 2018; 17 (4): 1182-1190.**

10) **S Aghazadeh, M Nemati, E Sharif Nia, H Hamishehkar , The cost benefit of Drugs and Medical consumables in common Global gynecological surgeries of two educational-therapeutic hospitals of Tabriz city, Journal of Modern Medical Information Sciences, 2018; 3 (2), 49-55.**

11) **Ahmadi, Y., Haghjoo, A.G., Dastmalchi, S., Nemati, M., Bargahi, N., Effects of Rosuvastatin on the expression of the genes involved in cholesterol metabolism in rats: adaptive responses by extrahepatic tissues, Gene , 2018; 661, 45-50.**

12) **Nemati, M., Nofuzi, S., Ahmadi, S., Monajjemzadeh, F., Quality control of the migration of bisphenol a from plastic packaging into iranian brands of food grade oils
Open Access, Pharmaceutical Sciences, 2018; 24(2), 141-147.**

13) **Khodadadi, A., Nemati, M., Tamizi, E., Nazemiyeh, H., Facile and accelerated method for detection of adulteration in commercially available lime juice products in Iranian market, Pharmaceutical Sciences, 2018; 24(2), 148-156.**

14) **Amirkhizi, B., Nemati, M., Arefhosseini, S.R., Shahraki, S.H., Application of the ultrasonic-assisted extraction and dispersive liquid-liquid microextraction for the analysis of AFB1 in egg, Food Analytical Methods, 2018; 11(3), pp. 913-920.**

15) **Sadrykia, F., Shayanfar, A., Valizadeh, H., Nemati, M., A Fast and Simple Method for Determination of Vitamin E in Infant Formula by Dispersive Liquid-Liquid Microextraction Combined with HPLC-UV, Food Analytical Methods, 2018;**

16) **Ghaderi, F., Nemati, M., Siahi-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Evaluation of activation energy conformity derived from model-free non-isothermal predictions and Arrhenius isothermal results: The case of hydrochlorothiazide–lactose reaction, Journal of Thermal Analysis and Calorimetry, 2017; 130(3), 1417-1427.**

17) Ghaderi, F., **Nemati, M.**, Siahi-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Physicochemical analysis and nonisothermal kinetic study of sertraline–lactose binary mixtures, *Journal of Food and Drug Analysis*, 2017; 25(3), pp. 709-716.

18) Ghaderi, F., **Nemati, M.**, Siahi-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Thermal stability and kinetic study of fluvoxamine stability in binary samples with lactose, *Advanced Pharmaceutical Bulletin*, 2017; 7(1), pp. 43-51.

19) Ghaderi, F., Nemati, M., Siahi-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Tracking of the Maillard reaction products in Pharmaceutical formulations of sertraline hydrochloride, *International Journal of Research in Applied and Basic Medical Sciences*, 2017; 3(1):1-10.

20) Aziz Homayouni Rad, **Mahboob Nemati**, Zeinab Rahimzadeh Sani, Hossein Servat, Farnaz Hajieghrari, Fluctuations in the Phenolic Content and Antioxidant Capacity of Nettle (*Urtica dioica* L.) Drink in Refrigerated Storage, *European Online Journal of Natural and Social Sciences* 2016; 5(3): 812-818.

21) Mir-Michael Mousavi, **Mahboob Nemati**, Ali Akbar Alizadeh Nabili, Mansour mahmoudpour, Seyedrafie Arefhosseini, Application of dispersive liquid–liquid microextraction followed by gas chromatography/mass spectrometry as effective tool for trace analysis of organochlorine pesticide residues in honey samples, *J IRAN CHEM SOC*,

22) **Mahboob Nemati**, Aliasghar Hamidi, Solmaz Maleki Dizaj, Vahid Javaherzadeh, Farzaneh Lotfipour, An Overview on Novel Microbial Determination Methods in Pharmaceutical and Food Quality Control, *Adv Pharm Bull*, 2016, 6(x), x-x.

23) Mir-Michael Mousavi, Seyedrafie Arefhosseini, Ali Akbar Alizadeh Nabili, Mansour Mahmoudpour, **Mahboob Nemati**, Development of an ultrasound-assisted emulsification microextraction method for the determination of chlorpyrifos and organochlorine pesticide residues in honey samples using gas chromatography with mass spectrometry, *J. Sep. Sci.* 2016, 00, 1–8.

24) Mansour Mahmoudpour, Javad Mohtadinia, Mir-Michael Mousavi, Masood Ansarin, **Mahboob Nemati**, Application of the Microwave-Assisted Extraction and Dispersive Liquid–Liquid Microextraction for the Analysis of PAHs in Smoked Rice, *Food Anal. Methods*, 2017; 10(1), pp. 277-286.

25) Mansour Mahmoudpour, Javad Mohtadinia, Masood Ansarin, **Mahboob Nemati**, Dispersive Liquid– Liquid Microextraction for HPLC-UV Determination of PAHs in Milk, *Journal of AOAC International*, 2016, 99(2): 527-33.

26) Ghaderi, F., **Nemati, M.**, Siahi-Shadbad, M.R., Valizadeh, H., Monajjemzadeh, F., Physicochemical evaluation and non-isothermal kinetic study of the drug-excipient interaction between doxepin and lactose, *Powder Technology*, 2015, 286: 845-855.

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28) F. Ghaderi¹, M. Nemati, M. Siahi-Shadbad, H. Valizadeh, F. Monajjemzadeh, Kinetics study of hydrochlorothiazide lactose liquid state interaction using conventional isothermal arrhenius method under basic and neutral conditions, *Brazilian Journal of Pharmaceutical Sciences*, 2016; 52 (4), 709-714.

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31) E. Keramatjou, J. Hesari, S. Azadmard-Damirchi, S.H. Peighambardoust and **M. Nemati**, Antioxidant effect of olive leaf on stability of butter, *EJFPP*, 2013, 5 (1): 81-94.

32) Fardin Javanmardi, **Mahboob Nemati**, Masood Ansarin and Seyyed Rafie Arefhosseini, Benzoic and sorbic acid in soft drink, milk, ketchup sauce and bread by dispersive liquid–liquid microextraction coupled with HPLC, *Food Additives & Contaminants: Part B*, 2014,

33) Sh. Emami, S. Azadmard-Damirchi, J. Hesari, S. H. Peighambardoust, Y., Ramezani, **M. Nemati**, M. Esmaili, and S. A. Rafat, Production of Butter Incorporated with Hazelnut Powder, *J. Agr. Sci. Tech. (2014) Vol. 16: 1623-1632.*

34) Roya Fathitil, Javad Hesari, Sodeif Azadmard-Damirchi, **Mahboob Nemati**, Seyed Hadi Peighambardoust, Seyed Abbas Rafat and Mostafa Aghamirzaei, Exploring Margarine in Anhydrous Milk Fat by Chromatographic Tools, *Annual Research & Review in Biology*, 4(4): 611-624, 2014

35) 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, *BioImpacts*, 2014, 4(2), 69-74

36) Mostafa Asadpoor, Masoud Ansarin, **Mahboob Nemati**, Amino Acid Profile as a Feasible Tool for Determination of the Authenticity of Fruit Juices , *Adv Pharm Bull*, 2014, 4(4), 359-362

37) Hadi Valizadeh • Peyman Nayyeri-Maleki, Saeed Ghanbarzadeh, Ahad Sheikhlou, Hossein Servat, **Mahboob Nemati**, Parvin Zakeri-Milani, Pharmacokinetics and bioequivalence of two brands of metformin 500 mg tablets in Iranian healthy volunteers, *Journal of Pharmaceutical Investigation* (2014) 44:61–68

38) Naser Aslanabadi, Bohlool Habibi Asl, Babak Bakhshalizadeh, Faranak Ghaderi, **Mahboob Nemati**, Hypolipidemic Activity of a Natural Mineral Water Rich in Calcium, Magnesium, and Bicarbonate in Hyperlipidemic Adults, *Advanced Pharmaceutical Bulletin*, 2014, 4(3), 303-307

39) 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*, 2013, 3(2), 415-418

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48) Hassanzadeh, Kambiz; Roshangar, Leila; Habibi-asl, Bohlool; Farajnia, Safar; Izadpanah, Esmael; **Nemati Mahboob**; Arasteh, Modabber; Mohammadi, Sadollah, Riluzole prevents morphine-induced apoptosis in rat cerebral cortex, *Pharmacological reports* : 2011, 63(3):697-707.

49) Zakeri-Milani, Parvin; **Nemati, Mahboob**; Ghanbarzadeh, Saeed; Hamishehkar, Hamed; Valizadeh, Hadi; Fasted state bioavailability of two delayed release formulations of divalproex sodium in healthy Iranian volunteers, *ARZNEIMITTEL-FORSCHUNG-DRUG RESEARCH*, 2011, 61(8): 439-443.

50) MESGARI ABBASI MEHRAN, **NEMATI MAHBOOB**, BABAEI HOSSIN, ANSARIN MASOUD, NOURDADGAR ASHRAF-O-SADAT, Solid Phase Extraction and Simultaneous Determination of Tetracyclines Residues in Cattle Edible Tissues Using an HPLC-FL Method, Iranian Journal of Pharmaceutical Research , 2012, 2(3): 781-87.

51) Mehran Mesgari Abbasi, Hossein Babaei , Masoud Ansarin , Ashraf-o-sadat Nourdadgar, **Mahboob Nemati**, simultaneous determination of Tetracyclines residues in Bovine milk samples by Solid phase extraction and HPLC-FL method, Advanced Pharmaceutical bulletin, 2011, 1(1): 34-39.

52) Mohammadreza Ghandforoush-Sattari, Simin O. Mashayekhi, **Mahboob Nemati**, Hormoz Ayromloua, Changes in plasma concentration of taurine in stroke, Neuroscience Letters, 2011, 496, 172–175.

53) Izadpanah, E., **Nemati, M.**, Charkhpour, M., Hassanzadeh, K, Decrease in glutamate level in cerebral cortex and lumbar region of spinal cord of rat: A potential mechanism for minocycline in attenuating morphine-induced tolerance, Scientific Journal of Kurdistan University of Medical Sciences, 2010, 15 (3): 1-12.

54) Kambiz Hassanzadeh, Bohlool Habibi-asl, Leila Roshangar, **Mahboob Nemati**, Masood Ansarin, Safar Farajnia, Intracerebroventricular administration of riluzole prevents morphine-induced apoptosis in the lumbar region of the rat spinal cord, Pharmacological reports, 2010, 62: 664-673.

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61) B Fathi Achachlouei, S Azadmard-Damirchi, J Hesari, **M Nemati**, Patulin Content in Fruit Juices Produced by Several Factories in Iran, Journal of Food Research (Agriculture Science), Scientific Journal of Faculty of Agriculture, University of Tabriz, 2009, 19(1):1-12.

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64) M.R. Ghandforoush, S. Mashayekhi, **M. Nemati**, P. A. Routledge, A Rapid Determination of Taurine in Human Plasma by LC, Chromatographia, 2009, 69:1427-1430.

65) Hadi Valizadeh, Mohammad Pourmahmood, Javid Shahbazi Mojarrad, **Mahboob Nemati**, Parvin Zakeri-Milani, Application of Artificial Intelligent Tools to Modeling of Glucosamine Preparation from Exoskeleton of Shrimp, Drug development and Industrial Pharmacy, 2009, 35(4):396–407.

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67) Hakami R, Mohtadinia J, Etemadi A, Kamangar F, **Nemati M**, Pourshams A, Islami F, Nasrollahzadeh D, Saber Firoozi M, Birkett N, Boffetta P, Malekzadeh R, Dietary Intake of Benzo(a)pyrene and Risk of Esophageal Cancer in north Iran, *Nutrition and cancer*, 2008, 60(2): 216- 21.

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Yield by Response Surface Methodology, *Journal of agricultural and food chemistry*, 2007, 55 (6), 2246 -2250.

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Presentations:

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- Mesgari M, **Nemati M.**, Babaei H, Ansarin M, Bahlooli S, Mirmahdavi S, Nourdadgar A, Sedghi F, Determination of Tetracycline, Oxytetracycline and Chlortetracycline antibiotics residues in Milk samples consumed in Ardebil city, 10th Iranian Nutrition congress, Tehran, Iran, October 27-30, 2008.

- **Nemati M, Mesgari M, Ansarin M, Parsa H, Assessment of aflatoxin M1 contamination in Ardebil city milk samples during different seasons, 10th Iranian Nutrition congress, Tehran, Iran, October 27-30, 2008.**
- **Nemati M, Aslanabadi N, Habbi Asl B, Bakhshalizadeh B, assessment of effect of Natural mineral water rich in calcium, magnesium and sulfate on lipid profile in human, 10th Iranian Nutrition congress, Tehran, Iran, October 27-30, 2008.**
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- **Nemati M., Valizadeh H, Ansarin M., Ghaderi F., Development of an HPLC method for determination of glucosamine in pharmaceutical formulations, 121st AOAC INTERNATIONAL Annual Meeting., Anaheim, California, USA, September 16-20, 2007.**
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