



Curriculum Vitae

Name: Afsaneh Arefi Oskouie

Place of Birth: Oskou, Eastern Azarbayjan Province, Iran

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Education

- (2008) Ph.D. in Organic Chemistry, Department of Basic Science, University of Tarbiat Modares, Tehran, Iran.

-(2004) MSC in Organic Chemistry, Department of Chemistry, Sharif University of Technology, Tehran, Iran.

- (2002) BSC in Pure Chemistry, Department of Chemistry, Tabriz University, Tabriz, Iran.

Academic Career:

1) Teaching

(2010- Present), Department of Basic Science, School of Allied Medical Sciences, Darband St, Tajrish Sq, Tehran, And Islamic Republic of Iran.

(2007-2008), Department of Basic Science, Islamic Azad University-Takestan Branch, Takestan, Iran.

(2007-2008), Department of Basic Science, Payame Noor University, Karaj, Iran.

2) Supervizing and/or Advising

Title of Thesis/dissertations	Degree/Level	Role	Year
Metabonomics study examples of different diseases: linear and non-linear models using nuclear magnetic resonance	Ph.D degree	Advisor	2013
Metabonomics study of serum blood for celiac patients based on Nuclear Magnetic Resonance	Ph.D degree	Supervisor	2014
NMR-Based metabolomic investigation into the metabolic profile of sulfur mustard exposed in different levels of lung diseases	Ph.D degree	Supervisor	2015
Evaluation of aqueous extract of lavender on LTP in hippocampus and metabolic changes in serum of animal model of Alzheimeric rats	Ph.D degree	Advisor	2016
Metabonomics and proteomics profiling of serum of compensated liver cirrhosis based on hepatitis C	Ph.D degree	Supervisor	2017
The proteomic study of women with Obsessive-compulsive disorder, washing subtype before and after treatment with Fluoxetine	Ph.D degree	Supervisor	2017
Identification of chemical composition of <i>Eremostachys hyoscyamoides</i> essential oil, antibacterial and antioxidant activates of extract	Doctor of Pharmacy (Pharm.D)	Supervisor	2018
Identification of the effective metabolites and representing a differential model in patients with membranous glomerulonephritis	Ph.D degree	Supervisor	2018
Proteomic and Metabolomic Study of Serum in Patients with Papillary Thyroid Carcinoma	Ph.D. degree	Supervisor	2018
Omics study of the breast cancer cells under the influence of graphene-based materials	Ph.D. degree	Advisor	2018
Determination of metabonomic profile in Iranian isolated leishmania tropica and leishmania major promastigotes	MSc	Advisor	2018
Plasma Proteomic Analysis of Colorectal Cancer and Advanced Adenomatous Polyp	Ph.D. degree	Supervisor	2019
Association between exposure to THMs in chlorinated and ozone/chlorinated swimming pools and metabolome-wide in swimmers	Ph.D degree	Advisor	2021

Publications:

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ResearcherID: P-4575-2014

1. Articles

1. Fayazfar S, Arefi A, Safaei A, Zali H, Mojarad EN. Identification of Key Candidate Genes and Pathways Associated with Colorectal Aberrant Crypt Foci-to-Adenoma-to-Carcinoma Progression. *Gastroenterology and Hepatology from Bed to Bench*. **2021**; **14(Suppl.1):S41-S50**.
2. Momeniha F, **Oskouie AA**, Esrafil A, Janani L, Jafari AJ. Trihalomethanes in exhaled air, indoor air and water: A parallel design trial in chlorine and ozone-chlorine disinfected swimming pools. *Building and Environment*. **2021** Nov 1; 205:108316.

3. Goshadrou F, Yekta RF, **Oskouie AA**, Eslami MA. Survey of potential diagnostic metabolite markers in serum of the rat model of alzheimer's disease using nuclear magnetic resonance (¹H-NMR) technique. *Koomesh*. 2021;23(1):105-16.
4. Tabrizi F, Tabaei SJ, Ahmadi NA, **Oskouie AA**. A Nuclear Magnetic Resonance-Based Metabolomic Study to Identify Metabolite Differences between Iranian Isolates of *Leishmania major* and *Leishmania tropica*. *Iranian Journal of Medical Sciences*. 2021 Jan;46(1):43.
5. Safaei A, **Oskouie AA**, Mohebbi SR, Razaghi Z, Nejadi N. Proteomic study of advanced cirrhosis based on HCV to reveal potential biomarkers. *Gastroenterology and Hepatology From Bed to Bench*. 2020;13(Suppl1):S113..
6. Yekta RF, **Oskouie AA**, Taheri S, Daneshyar H. The evaluation of serum micro and trace elements in patients with papillary thyroid carcinoma and multinodular goiter. *TRACE ELEMENTS AND ELECTROLYTES*. 2019;36(4):215-21.
7. Taherkhani A, Yekta RF, Mohseni M, Saidijam M, **Oskouie AA**. Chronic kidney disease: a review of proteomic and metabolomic approaches to membranous glomerulonephritis, focal segmental glomerulosclerosis, and IgA nephropathy biomarkers. *Proteome Science*. 2019;17(1):7.
8. Fayazfar S, Zali H, **Oskouie AA**, Aghdaei HA, Tavirani MR, Mojarad EN. Early diagnosis of colorectal cancer via plasma proteomic analysis of CRC and advanced adenomatous polyp. *Gastroenterology and hepatology from bed to bench*. 2019;12(4):328.
9. Amir Taherkhani MN, **Afsaneh Arefi-Oskouei**, Nasrin Broumandnia, Mahmoud Parvin, Leila Mahmoudieh, Shiva Kalantari. Metabolomic Analysis of Membranous Glomerulonephritis: Identification of a Diagnostic Panel and Pathogenic Pathways. *Archives of medical research*. 2019;50(4):159-69.
10. Yekta RF, Tavirani MR, **Oskouie AA**, Mohajeri-Tehrani MR, Soroush AR, Baghban AA. Serum-based metabolic alterations in patients with papillary thyroid carcinoma unveiled by non-targeted ¹H-NMR metabolomics approach. *Iranian journal of basic medical sciences*. 2018;21(11):1140.
11. Taherkhani A, Kalantari S, **Arefi Oskouie A**, Nafar M, Taghizadeh M, Tabar K. Network analysis of membranous glomerulonephritis based on metabolomics data. *Molecular medicine reports*. 2018;18(5):4197-212.
12. Goshadrou F, **Oskouie AA**, Eslami M, Ghoochani BFN. Effect of ghrelin on serum metabolites in Alzheimer's disease model rats; a metabolomics studies based on ¹H-NMR technique. *Iranian journal of basic medical sciences*. 2018;21(12):1245.
13. Farrokhi Yekta R, **Arefi Oskouie A**, Rezaei Tavirani M, Mohajeri-Tehrani MR, Soroush AR. Decreased apolipoprotein A4 and increased complement component 3 as potential markers for papillary thyroid carcinoma: A proteomic study. *The International journal of biological markers*. 2018;33(4):455-62.
14. Farahani M, Rezaei-Tavirani M, Zali H, **Arefi Oskouie A**, Omidi M, Lashay A. Deciphering the transcription factor-microRNA-target gene regulatory network associated with graphene oxide cytotoxicity. *Nanotoxicology*. 2018;12(9):1014-26.
15. Azodi MZ, Tavirani MR, **Oskouie AA**, Mansouri V, Hamdieh M, Nejati N, et al. Introducing Transthyretin as a Differentially Expressed Protein in Washing Subtype of Obsessive-Compulsive Disorder. *Basic and clinical neuroscience*. 2018;9(3):187.
16. **Oskouie AA**, Yekta RF, Tavirani MR, Kashani MS, Goshadrou F. *Lavandula angustifolia* effects on rat models of alzheimer's disease through the investigation of serum metabolic features using NMR metabolomics. *Avicenna journal of medical biotechnology*. 2018;10(2):83.
17. Bi Bi Fatemeh Nobakht Motlagh, Aliannejad R, **Oskouie AA**, Rezaei-Tavirani M, Kalantari S, Naseri MT, et al. Metabolomics diagnostic approach to mustard airway diseases: a preliminary study. *Iranian journal of basic medical sciences*. 2018;21(1):59.
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19. Nobakht BF, Oskouie AA. *Metabolomics as a Novel Diagnostic Approach for Asthma. Genomic Approach to Asthma: Springer, Singapore; 2018. p. 123-53.*

20. Safaei A, Oskouie AA. Protein and Post Translational Modification in Asthma. Genomic Approach to Asthma: Springer, Singapore; 2018. p. 103-21.
21. Yekta RF, Oskouie AA. Biological Databases. Genomic Approach to Asthma: Springer, Singapore; 2018. p. 303-37.
22. Zamanian-Azodi M, Rezaei-Tavirani M, Nejadi N, **Oskouie AA**, Zayeri F, Hamdieh M, et al. Serum proteomic profiling of obsessive-compulsive disorder, washing subtype: A preliminary study. Basic and clinical neuroscience. 2017;8(4):307.
23. Safaei A, Rezaei-Tavirani M, **Oskouie AA**, Mohebbi SR, Shabani M, Sharifian A. Serum metabolic profiling of advanced cirrhosis based on HCV. Hepatitis Monthly. 2017;17(3).
24. Nobakht BF, **Arefi Oskouie A**, Rezaei-Tavirani M, Aliannejad R, Taheri S, Fathi F, et al. NMR spectroscopy-based metabolomic study of serum in sulfur mustard exposed patients with lung disease. Biomarkers. 2017;22(5):413-9.
25. Farrokhi Yekta R, Rezaei Tavirani M, **Arefi Oskouie A**, Mohajeri-Tehrani M, Soroush A. The metabolomics and lipidomics window into thyroid cancer research. Biomarkers. 2017;22(7):595-603.
26. Azodi MZ, Tavirani MR, **Oskouie AA**, Hamdieh M, Derakhshan MK, Ahmadzadeh A, et al. Fluoxetine regulates Ig kappa chain c region expression levels in the serum of obsessive-compulsive disorder patients: A proteomic approach. Iranian journal of pharmaceutical research: IJPR. 2017;16(3):1264.
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28. Safaei A, **Oskouie AA**, Mohebbi SR, Rezaei-Tavirani M, Mahboubi M, Peyvandi M, et al. Metabolomic analysis of human cirrhosis, hepatocellular carcinoma, non-alcoholic fatty liver disease and non-alcoholic steatohepatitis diseases. Gastroenterology and hepatology from bed to bench. 2016;9(3):158.
29. Nobakht M. Gh BF, **Oskouie AA**, Aliannejad R, Rezaei-Tavirani M, Tavallaie S, Baghban AA, et al. Pro-oxidant–antioxidant balance in Iranian veterans with sulfur mustard toxicity and different levels of pulmonary disorders. Drug and chemical toxicology. 2016;39(4):362-6.
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37. Nobakht M. Gh BF, Aliannejad R, Rezaei-Tavirani M, Taheri S, **Oskouie AA**. The metabolomics of airway diseases, including COPD, asthma and cystic fibrosis. Biomarkers. 2015;20(1):5-16.

38. Daryoush Hamidi Alamdari BFNMG, **Afsaneh Arefi Oskouie**, Mostafa Rezaei-Tavirani, Alireza Akbarzadeh Baghban, Rasoul Aliannejad. Prooxidant-antioxidant balance in mustard airway disease with different severity. *European Respiratory Journal*. 2015;46(suppl 59):PA3915.
39. B. Fatemeh Nobakht M. Gh. RA, Salman Taheri, Mostafa Rezaei-Tavirani, Fariba Fathi, **Afsaneh Arefi Oskouie**. Serum metabolomic analysis of mustard airway diseases by nuclear magnetic resonance spectrometry: A pilot study. *European Respiratory Journal*. 2015;46(59):PA3925.
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41. Fathi F, Kasmaee LM, Sohrabzadeh K, Nejad MR, Tafazzoli M, **Oskouie AA**. The differential diagnosis of Crohn's disease and celiac disease using nuclear magnetic resonance spectroscopy. *Applied Magnetic Resonance*. 2014;45(5):451-9.
42. Fathi F, Ektefa F, Sohrabzadeh K, **Arefi-Oskouie A**, Tafazzoli M, Rostami K, et al. A metabonomics study on celiac disease by CART. *International Journal of Celiac Disease*. 2014;2(2):44-6.
43. Mortazavi-Tabatabaei SA, Fathi F, Ektefa F, Tafazzoli M, **Oskouie AA**, Rezaei-Tavirani M, et al. Investigation of metabonomics technique by analyze of NMR data, which method is better? Mean center or auto scale. *Journal of Paramedical Sciences (JPS)*. 2013;4(1):2008-4978.
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45. Fathi F, Mehrpour M, **Arefi Oskouie A**, Fathi S, Sohrabzadeh K, Rostami Nejad M. The role of selenium in Parkinson's disease. *Research in Medicine*. 2013;37(2):90-2.
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47. Fathi F, Ektefa F, **Oskouie AA**, Rostami K, Rezaei-Tavirani M, Alizadeh AHM, et al. NMR based metabonomics study on celiac disease in the blood serum. *Gastroenterology and Hepatology from bed to bench*. 2013;6(4):190.
48. **Arefi Oskouie A**, Rezaei-Tavirani M, Rostami Nejad M. Comparison of serum zinc concentrations in patients with celiac disease and Crohn's disease in Tehran city. *scientific journal of ilam university of medical sciences*. 2013;20(4):1-6.
49. Rezaei-Tavirani M, Fathi F, Darvizeh F, Zali MR, Nejad MR, Rostami K, **Afsaneh Arefi Oskouie**. Advantage of applying OSC to 1H NMR-based metabonomic data of celiac disease. *International journal of endocrinology and metabolism*. 2012;10(3):548.
50. Ghiasi M, **Oskouie AA**, Saeidian H. Dynamic stereochemistry of Topiramate (anticonvulsant drug) in solution: theoretical approaches and experimental validation. *Carbohydrate research*. 2012;348:47-54.
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55. Moghaddam FM, **Oskouie AA**, Boinee HZ. Rapid and selective acetalization of aldehydes using anhydrous copper sulfate supported on silica gel (CuSO₄/SiO₂) under microwave irradiation in solvent-free conditions. *Letters in Organic Chemistry*. 2005;2(2):151-5.

56. Moghaddam FM, Bardajee GR, **Oskui AA**. A mild and chemoselective dithioacetalization of aldehydes in the presence of anhydrous copper (II) sulfate. Phosphorus, Sulfur, and Silicon and the Related Elements. 2006;181(6):1445-50

2. Conferences

2-1-Oral presentation:

Afsaneh Arefi Oskouie, "Metabolomics and diseases"[In Persian, Metabolomics va baimariha"], 1th seminar of systems Biology, Tehran, Iran. 2016, oral presentation.

2-2-Posters:

1. Azadeh Taheri, Monireh Cheniany, Ali Ganjeali , Afsaneh Arefi-Oskouie "Evaluation of phenolic metabolites and antioxidant capacity of aerial part and root from two subspecies of medicinal plant *Ziziphora clinopodioides* Lam" 21th National & 9th International Congress on Biology, February 2021
2. Shiva Kalantari¹ Mohsen Nafar, Amir Taherkhani and Afsaneh Arefi, "Identification of a urinary diagnostic biomarker panel for membranous glomerulonephritis and Pathogenic metabolic pathways using metabolomics techniques" 16th European Nephrology Conference, October 02-03, 2017 Barcelona, Spain, *J Nephrol Ther* 2017, 7:5(Suppl)
3. Afsaneh Arefi Oskouie, Salman Taheri, Saeed K. Amini. "Experimental and Computational NMR Study of the Anticancer Drugs: Gemcitabine and Capecitabine", دومین کنفرانس بین المللی یافته های نوین 1395 پژوهشی در شیمی و مهندسی شیمی
4. **Afsaneh Arefi Oskouie** ."Metabolomics and Toxicology" , the Third national seminar on the role of medical Basic Sciences in health promotion, Tehran, Iran. 2015.
5. Akram Safaei, Mostafa Rezaei Tavirani, Afsaneh Arefi Oskouie "Metabolomics for serum Biomarker Discovery in cirrhosis", The Third National Seminar on the role of medical Basic Sciences in health promotion, The Third national seminar on the role of medical basic sciences in health promotion, Tehran, Iran. 2015.
6. Mona Zamanian Azodi, Mostafa Rezaei Tavirani, **Afsaneh Arefi Oskouie** "Molecular and Neurobiological Studies in Obsessive Compulsive Disorder (OCD)" , The Third national seminar on the role of medical basic sciences in health promotion, Tehran, Iran. 2015.
7. Akram Safaei¹, Mostafa Rezaei Tavirani, **Afsaneh Arefi Oskouie** "Proteomics for serum Biomarker Discovery in Cirrhosis", The Third national seminar on the role of medical basic sciences in health promotion, Tehran, Iran. 2015.
8. **Afsaneh Arefi Oskouie**, "Dynamic stereochemistry of Rutin (vitamin P) in solution: Theoretical Approaches and experimental NMR validation", 17th Iranian seminar of organic chemistry, University of Mazandaran, Babolsar, Iran .2010.
9. **Afsaneh Arefi Oskouie**, "An Efficient synthesis of 1-Amino-1-Phenyl-2-(N-Piperidino methyl) cyclohexane". 17th Iranian seminar of organic chemistry, University of Mazandaran, Babolsar, Iran .2010.

10. **Afsaneh Arefi Oskouie**, Akbar Heydari, "Tetramethylguanidine (TMG) as a selective and highly efficient catalyst for conjugate addition of cyanide to α,β -unsaturated enones", 17th Iranian seminar of organic chemistry, University of Mazandaran, Babolsar, Iran .2010.
11. **Afsaneh Arefi Oskouie**, Fariba Fathi, Mohsen Tafazzoli, , Zahra Karimnia,Salman Taheri, Mostafa Rezaie-Tavirani, Mohamad Rostami Nejad,Mohamad Reza Zali. "Comparison of scale for metabonomics studies of Crohn's and Celiac disease based on NMR technique", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran. 2012.
12. Fariba Fathi, **Afsaneh Arefi Oskouie** *, Mohsen Tafazzoli, Zahra Karimnia,Salman Taheri, Mostafa Rezaie-Tavirani, Mohamad Rostami Nejad,Mohamad Reza Zali. "Metabonomics study of serum blood for celiac disease", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran .2012.
13. **Afsaneh Arefi Oskouie**, , Fariba Fathi, Mohsen Tafazzoli, Fatemeh Ektefa, Mohamad Reza Zali ,Mohamad Rostami Nejad,Salman Taheri."Assessment of Serum Zinc Level in Crohn patients in Tehran City", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran. 2012.
14. Fariba Fathi, **Afsaneh Arefi Oskouie**, Mohsen Tafazzoli , Zahra Karimnia,Salman Taheri, Mostafa Rezaye-Tavirani, Mohamad Rostami Nejad,Mohamad Reza Zali."Application Orthogonal Signal Correction (OSC) in metabonomics of Celiac Disease", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran .2012.
15. **Afsaneh Arefi Oskouie**, Fariba Fathi, Mohsen Tafazzoli, Mohammad Reza Zal, Mohammad Rostami Nejad "Evaluation of Serum Zinc Level in Celiac Patients in Tehran", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran .2012.
16. **Afsaneh Arefi Oskouie** "Metabolomics based on GC-MS Technique", 2nd National Seminar on the Role of Medical Basic Sciences on Health Promotion, Tehran, Iran .2012.
17. **Afsaneh Arefi Oskouie**, Leila Ma'mani ,Ehsan Rahimian Mohhamadi. "Preparation and characterization of nanohydroxyapatite-coated iron oxide nanoparticles by ultrasonic technique", The First National Seminar On The Role of Basic Sciences On Health Promotion, Tehran, Iran
18. Leila Ma'mani, **Afsaneh Arefi Oskouie**, Mehdi Sheykhani, Ehsan Rahimian Mohhamadi. "Antibacterial properties of Silver Nanoparticle Embedded on Hydroxyapatite-Encapsulated γ -**Fe₂O₃** " The First National Seminar On The Role of Basic Sciences On Health Promotion, Tehran, Iran.
19. Azam Shahbodaghi, **Afsaneh Arefi Oskouie** . "Investigating the trend followed by scientists worldwide, from 1947 to 2009, to use Chemistry in medical research dealing with prevention, diagnosis and therapy", The First National Seminar on the Role of Basic Sciences On Health Promotion, Tehran, Iran.

Books:

1. . Afsaneh Arefi Oskouie, Organic Chemistry[In Persian Titles: Shimi ali], 2008, Ostadi Publisher, Tehran.Iran.
2. Book Chapter in "Genomic Approach to Asthma, Springer, Singapore Publisher,, chapte 6: Protein and Post Translational Modification in Asthma 2018. pages 103-21.
3. Book Chapter in "Genomic Approach to Asthma, Springer, Singapore Publisher, , chapter 7 **Metabolomics as a Novel Diagnostic Approach for Asthma**, 2018, pages: 123-153.
4. Book Chapter in "Genomic Approach to Asthma, Springer, Singapore Publisher,, chapter 14, "**Biological Databases**, 2018, pages: 303-337.

Area of Interests:

- Nuclear magnetic resonance spectroscopy and its application to identification of bio molecules
- NMR and Metabolomics study
- GC-MS and Metabolomics
- LC-MS/MS in metabolomics
- Natural products by advance techniques 2D NMR spectroscopy and theoretical methods.
- Study of influence of Pharmaceuticals Compounds in disease (bioinformatics).
- .Lipidomics, Proteomics

References

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