

Personal Information

Name: Pooneh Mokarram

Date of Birth: 22/09/1972

Sex: Female

Marital status: married

Nationality: Iranian

Pofessor of Biochemistry (now)

Address: Department of Biochemistry, Faculty of Medicine, Shiraz University of Medical Sciences, Shiraz, Iran

Phone: 00987116217255 or 00989177160754 (cell phone)

E-mail mokaram2@gmail.com; mokaramp@sums.ac.ir

Languages: Persian/English

Academic Background:

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	
B.Sc	Shiraz University	Chemistry	1995
M.Sc University	Tarbiat Modarres	Biochemistry	2000

Title of Thesis: The Effect of Tamoxifen on TBG Binding Capacity and Free T3 and Free T4; MSc

Supervisor: Dr. Fatemeh Karami Tehrani

Ph.D	Shiraz University	Biochemistry	2009	of
Medical Sciences				

Title of Thesis: **Comparative Molecular Study of Left and Right Colorectal Carcinoma**

Supervisor: Dr.Fakhraddin Naghibalhossaini

Awards

- 1) Third Young Kharazmi Festival of Iran, 2002
- 2) Honored Ph.D student at Shiraz University of Medical Science, 2004

Publications

Book:

Methylation in Colorectal Cancer

Authors

Pooneh Mokarram, Mehrdad Asghari Estiar, Hassan Ashktorab

Publication date

2015, Epigenetics Territory and Cancer

- 1. Afshari F, Alaei S, Dara M, Shadi M, Chenari N, Ramezani A, et al. The synergic impact of decellularized testis scaffold and extracellular vesicles derived from human semen on spermatogonial stem cell survival and differentiation. 2025.**
- 2. Zamani M, Sadeghi E, Mokarram P, Kadkhodaei B, Ghasemi H. Autophagy related proteins as potential biomarkers in predicting cancer prognosis after chemoradiotherapy: systematic review and meta-analysis. International Journal of Radiation Biology. 2025;101(3):232-9.**
- 3. Dastghaib S, Shafiee SM, Ramezani F, Ashtari N, Tabasi F, Saffari-Chaleshtori J, et al. NRF-mediated autophagy and UPR: Exploring new avenues to overcome cancer chemo-resistance. European Journal of Pharmacology. 2025;988:177210.**
- 4. Dastghaib S, Siri M, Rahmani-Kukia N, Heydari ST, Pasalar M, Zamani M, et al. Effect of 30-day Ramadan fasting on autophagy pathway and metabolic health outcome in healthy individuals. Molecular Biology Research Communications. 2025;14(2):115.**
- 5. Rahmani-Kukia N, Keshavarzi F, Salehi MS, Bozorg-Ghalati F, Mojtahedi Z, Zamani M, et al. The effect of chemotherapeutic agents on epidermal neural crest stem cells. Molecular Biology Research Communications. 2025;14(2):167.**
- 6. Ghavamizadeh M, Habibi A, Dastghaib S, Ahmadi M, Mokarram P. Characterization and Investigation of the Toxicity, Genotoxicity, Antioxidant, and Radical Scavenging Activity of Highly**

Fluorescent Nitrogen-Doped Graphene Quantum Dots (NGQDs). Iran J Chem Chem Eng(IJCCE) Vol. 2025;44(04).

7. Shafiee L, Mokarram P, Shamsdin SA, Khoshdel Z. Investigation of the Methylation Status of Two Autophagy Genes, LC3B and ATG5, with Autophagy Gene Polymorphism ATG16L1 in Patients with Colorectal Cancer in Fars Province. Shiraz E-Medical Journal. 2025;26(26).

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10. Rezayi S, Siri M, Rahmani-Kukia N, Zamani M, Dastghaib S, Mokarram P. The modulation of autophagy and unfolded protein response by ent-kaurenoid derivative CPUK02 in human colorectal cancer cells. Molecular Biology Reports. 2024;51(1):599.

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12. Zamani M, Safari F, Siri M, Igder S, Khatami N, Dastghaib S, et al. Epigenetic modulation of autophagy pathway by small molecules in colorectal cancer: a systematic review. Journal of Cancer Research and Clinical Oncology. 2024;150(10):474.

13. Mokarram P, Ghavami S. Autophagy unveiled: New horizons in health and disease. Biochim Biophys Acta, Mol Basis Dis. 2024;167289.

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Abstracts presented in Congress

Abstract In royan (EBrahimi)

Abstract in MS congress(shkiba)

Abstract in Ms congress (2 Alizadeh)

1'. Some abstract in Yazd Congress in 2013.

1. Detection of microsatellite instability by melting point analysis. Accepted for oral presentation.

12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology, **2011, Mashhad.**

2. Comethylation Status of p 16 and MGMT genes and Kras mutation in colorectal carcinoma. 12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology, **2011, Mashhad.**

3. Computer-Based model within E2 conserved region of Hepatitis C virus. 12th Iranian Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology, **2011, Mashhad.**

4. The Effect of Electro Acupuncture on leptin Hormone in Iranian Obese and Overweight Subjects. The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.

5. The Effects of Auricular Acupuncture on Leptin Hormone in Iranian Obese and Overweight Subjects. The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.

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7. The Effects of Body Acupuncture on Lipid Profile in Iranian Obese and Overweight Subjects. The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.

8. Compartment the effect of Auricular and Body Acupuncture on level of the serum Hscrp in Iranian Obese and Overweight Subjects. The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.

9. Electro Acupuncture has Beneficial Effects on Body Composition and Infertility in Iranian Obese and Overweight Women. The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.

10. Genes promoter methylation status of p14, E-cadherin and APC2 with BRAF mutation in Iranian population. **The 12th Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.**
11. The Effects of Electro Acupuncture on Body Composition and Infertility in Iranian Obese and Overweight Women. 11th Royan Internatinal Congress Reproductive Biomedicine. Summer 2010.
12. Dedifferentiation of NIH3T3 cells in the presence and Absence of 5-Aza- Deoxycytidine and TSA by cell-free Extract of Embryonic Stem cells. 11th Congress of Cellular and Molecular Advances in Non-Contagious Diseases. Royan 2010.
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14. **Mokarram P**, Naghibalhossaini F, Saberifiroozi M, Vasei M. K-ras, p53 genes mutations and microsatellite instability among Iranian sporadic colorectal cancer. **10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**
15. Naghibalhossaini F, Pakdel A, **Mokarram P**. Soluble carcinoembryonic antigen blocks mouse skeletal muscle C2C12 myogenic differentiation. **10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**
16. **Mokarram P**, Ashktorab H, Naghibalhossaini F, Daremipouran M, Schuebel K, Vasei M . Distinct genes methylation profile in colorectal cancer: A population based study. **10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**
17. Naghibalhossaini F, **Mokarram P**, Pakdel A. Inhibition of carcinoembryonic antigen release from colorectal cancer cells to prevent CRC-Liver metastasis. . **10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**
18. Naghibalhossaini F, Khalili I, **Mokarram P**, Vasei M . The association between DNA methyltransferase 3b C-149T genotype, and promoter methylation of PTEN and APC tumor suppressor genes among Iranian colorectal cancer patients. **GASTRO 2009 UEGW/WCOG in London. November 21-25, 2009 and 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**

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20. Kumar K, Daremipouran M, **Mokarram P**, Nouraie SM, Lee E , Smoot D, Ashktorab H. CAN1 gene methylation profile in African-Americans (AA) with colon cancer and adenoma: new candidate genes. **Digestive Disease Week (DDW), May 17 - 22, San Diego, California, 2008.**
21. Ashktorab H, Daremipouran M, Brim H, Kumar K, **Mokarram P**, Shivapurkar N, Nouraie SM, Lee E, Smoot D. Distinct CIN and MIN pattern, CAN1 gene methylation profile in African American (AA) with colon cancer and adenoma. **Digestive Disease Week (DDW), May 17 - 22, San Diego, California, 2008.**
22. Daremipour M, **Mokarram P**, Schaffer A, Fredrick W, Momodu J, Jafari A, Makasha J, Lee E, Smoot D, Nouraie SM, Ashktorab H. Genomic Architecture of colon cancer: A targeted approach to genomic disease. **American Association for Cancer Research (AACR) Annual Meeting, April 12 - 16, San Diego, California, 2008 .**
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24. **Mokarram P** and Karami F. The Effect of Tamoxifen on Serum TBG, FT3, FT4, and TSH in Postmenopausal Breast Cancer Patients. The 1st International Cancer Research Congress. **Uremia, Iran, May. 15-18, 2001.**
25. **Mokarram P**, Karami Tehrani F and Razmi N. The Effect of Tamoxifen upon TBG Binding Capacity, Free T3 and Free T4 in Ovariectomized Rats. **14th International Congress of Geographic Medicine and 15th Iranian Congress of Physiology and Pharmacology. Shiraz, Iran, Nov. 5-8, 2001.**
26. **Mokarram P**, Karami F, and Razmi N. The Estrogenic Effect of Tamoxifen on the Liver TBG Binding Capacity from Rats with DMBA-Induced Malignant Tumors. **The 7th Iranian Seminar of Pharmaceutical Science (ISPS). Mashhad, Iran, Aug. 27-29, 2000.**
27. **Mokarram P**, Karami F and Ghavami S. The Effect of Tamoxifen on the TBG Sialylation. **The 1st Iranian Biochemistry and Biophysics Congress. Tehran, Iran, Jan. 17-18, 2000.**

Experimental skills

- ⇒ Common used molecular biology methods
- Epigenetic studies (MS-PCR, Chip)
 - DNA extraction from blood, tissue, serum, cell line
 - Isolation of plasmid DNA from E.Coli
 - Primer/Probe Designing
 - Polymerase Chain Reaction (PCR)
 - Electrophoresis
 - Cloning

Yeast culture , Expression of recombinant proteins in yeast and E.Coli
RNA extraction, RT-PCR/ Real time PCR.

⇒ Cell culture

MTT assay

⇒ Bacterial & yeast culture

⇒ UV- Vis spectrophotometry

⇒ Enzyme assay

Kinetic assay

End point assay

⇒ Sodium Dodecyl Sulfate –Poly Acrylamide Gel Electrophoresis (SDS-PAGE)

⇒ Page Electrophoresis, Denaturing /Non Denaturing

⇒ Western Blot