

## **Personal Information**

Name: Pooneh Mokarram

Date of Birth: 22/09/1972

Sex: Female

Marital status: married

Nationality: Iranian

**Professor of Biochemistry (now)**

**Head of Autophagy Research Center**

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

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Languages: Persian/English

**Academic Background:**

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

**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

### Books:

#### \*Methylation in Colorectal Cancer

Authors, Pooneh Mokarram, Mehrdad Asghari Estiar, Hassan Ashktorab

Publication date, 2015, Epigenetics Territory and Cancer

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**Book: Glioblastoma Resistance to Chemotherapy: Molecular Mechanisms and Innovative Reversal Strategies, Chapter Number: 08**

**\*Role of apoptosis, autophagy, and the unfolded protein response in glioblastoma chemoresistance**

**Sanaz Dastghaiba,\* Q5 , Sima Hajiahmadib,\*, Amir Seyfooric,d,\* Meitham Amerehc, Mozhdeh Zamanie, Zahra Shahsavarib, Shahla Shojaeif, Mohsen Akbaric,g,h,†, Pooneh Mokarrame,i,†, and Saeid Ghavamie,f,j,k,l,†**

### Publications:

1:Autophagy Flux Correlates with Upregulation of AKT-1 in RAS Mutated Colon Cancer Cells, Hamid Behrouj, Amir Mahmoudzadeh, Saeid Ghavami, Pooneh Mokarram 2021/3/9, Middle East Journal of Cancer

2:Effect of casein kinase 1 $\alpha$  inhibition on autophagy flux and the AKT/phospho- $\beta$ -catenin (S552) axis in HCT116, a RAS-mutated colorectal cancer cell line.  
Behrouj H, Seghatoleslam A, **Mokarram P**, Ghavami S.Can J Physiol Pharmacol. 2021 Mar;99(3):284-293. doi: 10.1139/cjpp-2020-0449. Epub 2021 Feb 26.PMID: 33635146

3:Effects of platelet-rich plasma on the pancreatic islet survival and function, islet transplantation outcome and pancreatic pdx<sub>1</sub> and insulin gene expression in streptozotocin-induced diabetic rats. Nemati M, Karbalaei N, **Mokarram P**, Dehghani F. *Growth Factors*. 2021 Feb 11:1-15. doi: 10.1080/08977194.2021.1881502. Online ahead of print. PMID: 33569978

4:Statins in patients with COVID-19: a retrospective cohort study in Iranian COVID-19 patients. Peymani P, Dehesh T, Aligolighasemabadi F, Sadeghdoust M, Kotfis K, Ahmadi M, Mehrbod P, Iranpour P, Dastghaib S, Nasimian A, Ravandi A, Kidane B, Ahmed N, Sharma P, Shojaei S, Bagheri Lankarani K, Madej A, Rezaei N, Madrakian T, Los MJ, Labouta HI, **Mokarram P**, Ghavami S. *Transl Med Commun*. 2021;6(1):3. doi: 10.1186/s41231-021-00082-5. Epub 2021 Jan 25. PMID: 33521322

5:Mechanisms Targeting the Unfolded Protein Response in Asthma. Dastghaib S, Kumar PS, Aftabi S, Damera G, Dalvand A, Sepanjnia A, Kiumarsi M, Aghanoori MR, Sohal SS, Ande SR, Alizadeh J, **Mokarram P**, Ghavami S, Sharma P, Zeki AA. *Am J Respir Cell Mol Biol*. 2021 Jan;64(1):29-38. doi: 10.1165/rcmb.2019-0235TR. PMID: 32915643

6:The ER Stress/UPR Axis in Chronic Obstructive Pulmonary Disease and Idiopathic Pulmonary Fibrosis. Aghaei M, Dastghaib S, Aftabi S, Aghanoori MR, Alizadeh J, **Mokarram P**, Mehrbod P, Ashrafizadeh M, Zarrabi A, McAlinden KD, Eapen MS, Sohal SS, Sharma P, Zeki AA, Ghavami S. *Life (Basel)*. 2020 Dec 22;11(1):1. doi: 10.3390/life11010001. PMID: 33374938

7:CRISPR/Cas9 Technology as a Modern Genetic Manipulation Tool for Recapitulating of Neurodegenerative Disorders in Large Animal Models. Barazesh M, Mohammadi S, Bahrami Y, **Mokarram P**, Morowvat MH, Saidijam M, Karimipour M, Pour SK, Vosoughi AR, Khanaki K. *Curr Gene Ther*. 2020 Dec 13. doi: 10.2174/1566523220666201214115024. Online ahead of print. PMID: 33319680

8:Design and characterization of a recombinant immunotoxin for targeted therapy of breast cancer cells: In vitro and in silico analyses. Barazesh M, Mohammadi S, Jalili S, Kavousipour S, Faraji SN, **Mokarram P**, Pirhadi S. *Life Sci*. 2021 Jan 15;265:118866. doi: 10.1016/j.lfs.2020.118866. Epub 2020 Dec 7. PMID: 33301810

9:Simvastatin Induces Unfolded Protein Response and Enhances Temozolomide-Induced Cell Death in Glioblastoma Cells.

Dastghaib S, Shojaei S, Mostafavi-Pour Z, Sharma P, Patterson JB, Samali A, **Mokarram P**, Ghavami S. *Cells*. 2020 Oct 22;9(11):2339. doi: 10.3390/cells9112339.PMID: 33105603

10:Rapid and Cost-Effective RNA Extraction of Rat Pancreatic Tissue.

Dastghaib S, Shahsavar Z, Karimian Z, **Mokarram P**. *J Vis Exp*. 2020 Sep 19;(163). doi: 10.3791/61255.PMID: 33016937

11:Vitamin D Receptor Gene Polymorphisms and the Risk of Metabolic Syndrome (MetS): A Meta-Analysis.

Totonchi H, Rezaei R, Noori S, Azarpira N, **Mokarram P**, Imani D. *Endocr Metab Immune Disord Drug Targets*. 2020 Aug 4. doi: 10.2174/1871530320666200805101302. Online ahead of print.PMID: 32767922

12:Stevia rebaudiana extract attenuate metabolic disorders in diabetic rats via modulation of glucose transport and antioxidant signaling pathways and aquaporin-2 expression in two extrahepatic tissues.

Bayat E, Rahpeima Z, Dastghaib S, Gholizadeh F, Erfani M, Asadikaram G, **Mokarram P**. *J Food Biochem*. 2020 Aug;44(8):e13252. doi: 10.1111/jfbc.13252. Epub 2020 Jun 9.PMID: 32515037

13:The effects of 17 Beta-Estradiol primed mesenchymal stem cells on the biology of co-cultured neutrophil. **Rahmani-Kukia N, Abbasi A, Abtahi Froushani SM, Shahgaldi S, Mokarram P**. *Int Immunopharmacol*. 2020 Jul;84:106602. doi: 10.1016/j.intimp.2020.106602. Epub 2020 May 15.PMID: 32417655

14: **Erfani M, Hosseini SV, Mokhtari M, Zamani M, Tahmasebi K, Alizadeh Naini M, Taghavi A, Carethers JM, Koi M, Brim H, Mokarram P, Ashktorab H.**

Altered ARID1A expression in colorectal cancer. *BMC Cancer*. 2020 Apr 25;20(1):350. doi:

10.1186/s12885-020-6706-x. PubMed PMID: 32334542; PubMed Central PMCID: PMC7183124.

15: Sisakht M, Darabian M, Mahmoodzadeh A, Bazi A, Shafiee SM, Mokarram P, Khoshdel Z. The role of radiation induced oxidative stress as a regulator of radio-adaptive responses. *Int J Radiat Biol.* 2020 May;96(5):561-576. doi: 10.1080/09553002.2020.1721597. Epub 2020 Feb 7. PubMed PMID: 31976798.

16: Igder S, Mohammadiasl J, Azadpour S, Mansouri E, Ashktorab H, Mokarram P. KRAS

mutation and abnormal expression of Cripto-1 as two potential candidate biomarkers for detection of colorectal cancer development. *J Cell Biochem.* 2020 Apr;121(4):2901-2908. doi: 10.1002/jcb.29526. Epub 2019 Nov 6. PubMed PMID: 31692030.

17: Barazesh M, Mostafavipour Z, Kavousipour S, Mohammadi S, Mokarram P. Two Simple Methods for Optimizing the Production of "Difficult-to-Express" GnRH-DFF40 Chimeric Protein. *Adv Pharm Bull.* 2019 Aug;9(3):423-431. doi: 10.15171/apb.2019.050. Epub 2019 Aug 1. PubMed PMID: 31592077; PubMed Central PMCID: PMC6773931.

18: Gholizadeh F, Dastghaib S, Koohepeyma F, Bayat E, Mokarram P. The protective effect of *Stevia rebaudiana* Bertoni on serum hormone levels, key steroidogenesis enzymes, and testicular damage in testes of diabetic rats. *Acta Histochem.* 2019 Oct;121(7):833-840. doi: 10.1016/j.acthis.2019.08.001. Epub 2019 Aug 13. PubMed PMID: 31420111.

19: Amiri S, Dastghaib S, Ahmadi M, Mehrbod P, Khadem F, Behrouj H, Aghanoori MR, Machaj F, Ghamsari M, Rosik J, Hudecki A, Afkhami A, Hashemi M, Los MJ, Mokarram P, Madrakian T, Ghavami S. Betulin and its derivatives as novel compounds with different pharmacological effects. *Biotechnol Adv.* 2020 Jan - Feb;38:107409. doi: 10.1016/j.biotechadv.2019.06.008. Epub 2019 Jun 18. Review. PubMed PMID: 31220568.

20: Zamani M, Hosseini SV, Behrouj H, Erfani M, Dastghaib S, Ahmadi M, Shamsdin SA, Mokarram P. BDNF Val66Met genetic variation and its plasma level in patients with morbid obesity: A case-control study. *Gene.* 2019 Jul 15;705:51-54. doi: 10.1016/j.gene.2019.04.045. Epub 2019 Apr 17. PubMed PMID: 31004714.

**21: Igder S, Mohammadiasl J, Mokarram P. Altered miR-21, miRNA-148a Expression in Relation to KRAS Mutation Status as Indicator of Adenoma-Carcinoma Transitional Pattern in Colorectal Adenoma and Carcinoma Lesions. *Biochem Genet.* 2019 Dec;57(6):767-780. doi: 10.1007/s10528-019-09918-0. Epub 2019 Apr 17. PubMed PMID: 30997628.**

**22: Mokarram P, Ahmadi M, Shojaei S, Ghavami S. Autophagy and cancer research in Iran. *Autophagy.* 2019 Nov;15(11):2039-2042. doi: 10.1080/15548627.2019.1606638. Epub 2019 Apr 23. PubMed PMID: 30982396; PubMed Central PMCID: PMC6844528.**

**23: Zeglinski MR, Moghadam AR, Ande SR, Sheikholeslami K, Mokarram P, Sepehri Z,**

**Rokni H, Mohtaram NK, Poorebrahim M, Masoom A, Toback M, Sareen N, Saravanan S, Jassal DS, Hashemi M, Marzban H, Schaafsma D, Singal P, Wigle JT, Czubryt MP, Akbari M, Dixon IMC, Ghavami S, Gordon JW, Dhingra S. Myocardial Cell Signaling During the Transition to Heart Failure: Cellular Signaling and Therapeutic**

**Approaches. *Compr Physiol.* 2018 Dec 13;9(1):75-125. doi: 10.1002/cphy.c170053. Review. PubMed PMID: 30549015.**

**24: Darbandi M, Darbandi S, Agarwal A, Baskaran S, Sengupta P, Dutta S, Mokarram P, Saliminejad K, Sadeghi MR. Oxidative stress-induced alterations in seminal plasma antioxidants: Is there any association with keap1 gene methylation in human spermatozoa? *Andrologia.* 2019 Feb;51(1):e13159. doi: 10.1111/and.13159. Epub 2018 Oct 8. PubMed PMID: 30298637.**

**25: Saeb S PhD, Azari H PhD, Mostafavi-Pour Z PhD, Ghanbari A PhD, Ebrahimi S Ms, Mokarram P PhD. 9-cis-Retinoic Acid and 1,25-dihydroxy Vitamin D3 Improve the Differentiation of Neural Stem Cells into Oligodendrocytes through the Inhibition of the Notch and Wnt Signaling Pathways. *Iran J Med Sci.* 2018 Sep;43(5):523-532. PubMed PMID: 30214105; PubMed Central PMCID: PMC6123560.**

**26: Khazayel S, Mokarram P, Mohammadi Z, Ramezani F, Dayong Z. Derivative of Stevioside; CPUK02; Restores ESR1 Gene Methylation in MDA-MB 231. *Asian Pac J Cancer Prev.* 2018 Aug 24;19(8):2117-2123. PubMed PMID: 30139210; PubMed Central PMCID: PMC6171390.**

**27: Kavousipour S, Mokarram P, Gargari SLM, Mostafavi-Pour Z, Barazesh M, Ramezani A, Ashktorab H, Mohammadi S, Ghavami S. A Comparison Between Cell, Protein and Peptide-Based Approaches for Selection of Nanobodies Against CD44 from a Synthetic Library. *Protein Pept Lett.* 2018;25(6):580-588. doi: 10.2174/0929866525666180530122159. PubMed PMID: 29848261.**

**28: Alizadeh Naini M, Kavousipour S, Hasanzarini M, Nasrollah A, Monabati A, Mokarram P. O6-Methyguanine-DNA Methyl Transferase (MGMT) Promoter Methylation in Serum DNA of Iranian Patients with Colorectal Cancer. Asian Pac J Cancer Prev. 2018 May 26;19(5):1223-1227. PubMed PMID: 29801405; PubMed Central PMCID: PMC6031839.**

**29: Movahedi B, Mokarram P, Hemmati M, Mosavari N, Zare R, Ardekani LS, Mostafavi-Pour Z. IFN- $\gamma$  and IL-2 Responses to Recombinant AlaDH against ESAT-6/CFP-10 Fusion Antigens in the Diagnosis of Latent versus Active Tuberculosis Infection. Iran J Med Sci. 2017 May;42(3):275-283. PubMed PMID: 28533576; PubMed Central PMCID: PMC5429496.**

**30: Mokarram P, Sheikhi M, Mortazavi SMJ, Saeb S, Shokrpour N. Effect of Exposure to 900 MHz GSM Mobile Phone Radiofrequency Radiation on Estrogen Receptor Methylation Status in Colon Cells of Male Sprague Dawley Rats. J Biomed Phys Eng. 2017 Mar 1;7(1):79-86. eCollection 2017 Mar. PubMed PMID: 28451581; PubMed Central PMCID: PMC5401136.**

**31: Mokarram P, Albokashy M, Zarghooni M, Moosavi MA, Sepehri Z, Chen QM, Hudecki A, Sargazi A, Alizadeh J, Moghadam AR, Hashemi M, Movassagh H, Klonisch T, Owji AA, Łos MJ, Ghavami S. New frontiers in the treatment of colorectal cancer: Autophagy and the unfolded protein response as promising targets. Autophagy. 2017 May 4;13(5):781-819. doi: 10.1080/15548627.2017.1290751. Epub 2017 Feb 23. Review. PubMed PMID: 28358273; PubMed Central PMCID: PMC5446063.**

**32: Kavousipour S, Khademi F, Zamani M, Vakili B, Mokarram P. Novel biotechnology approaches in colorectal cancer diagnosis and therapy. Biotechnol Lett. 2017 Jun;39(6):785-803. doi: 10.1007/s10529-017-2303-8. Epub 2017 Feb 25. Review. PubMed PMID: 28238060.**

**33: Mokarram P, Mohammadi Z, Khazayel S, Dayong Z. Induction of Epigenetic Alteration by CPUK02, An Ent- kaurenoid Derivative of Stevioside. Avicenna J Med Biotechnol. 2017 Jan-Mar;9(1):13-18. PubMed PMID: 28090275; PubMed Central PMCID: PMC5219816.**

**34: Ashktorab H, Mokarram P, Azimi H, Olumi H, Varma S, Nickerson ML, Brim H. Targeted exome sequencing reveals distinct pathogenic variants in Iranians with colorectal cancer. Oncotarget. 2017 Jan 31;8(5):7852-7866. doi: 10.18632/oncotarget.13977. PubMed PMID: 28002797; PubMed Central PMCID: PMC5341754.**



**35: Zamani M, Hosseini SV, Mokarram P. Epigenetic biomarkers in colorectal cancer: premises and prospects. Biomarkers. 2018 Mar;23(2):105-114. doi: 10.1080/1354750X.2016.1252961. Epub 2016 Nov 10. Review. PubMed PMID: 27788596.**

**36: Naini MA, Mokarram P, Kavousipour S, Zare N, Atapour A, Zarin1 MH, Mehrabani**

**G, Borji M. Sensitive and Noninvasive Detection of Aberrant SFRP2 and MGMT-B Methylation in Iranian Patients with Colon Polyps. Asian Pac J Cancer Prev. 2016;17(4):2185-93. PubMed PMID: 27221916.**

**37: Assaei R, Mokarram P, Dastghaib S, Darbandi S, Darbandi M, Zal F, Akmal M, Ranjbar Omrani GH. Hypoglycemic Effect of Aquatic Extract of Stevia in Pancreas of Diabetic Rats: PPAR $\gamma$ -dependent Regulation or Antioxidant Potential. Avicenna J Med Biotechnol. 2016 Apr-Jun;8(2):65-74. PubMed PMID: 27141265; PubMed Central PMCID: PMC4842244.**

**38: Mokarram P, Alizadeh J, Razban V, Barazeh M, Solomon C, Kavousipour S. Interconnection of Estrogen/Testosterone Metabolism and Mevalonate Pathway in Breast and Prostate Cancers. Curr Mol Pharmacol. 2017;10(2):86-114. doi: 10.2174/1874467209666160112125631. Review. PubMed PMID: 26758947.**

**39: Promoter Methylation Status of the Two Novel Human Genes, UBE2Q1 and UBE2Q2, in Colorectal Cancer: A New Finding in Iranian Patients**

Pooneh Mokarram<sup>1,2,3</sup>, Fatemeh Shakiba-Jam<sup>1</sup>, Soudabeh Kavousipour<sup>4</sup>, Mostafa Moradi Sarabi<sup>1</sup>, Atefeh Seghatoleslam<sup>1,5\*</sup>

**40: Mokarram P, Kavousipour S, Sarabi MM, Mehrabani G, Fahmidehkar MA, Shamsdin**

**SA, Alipour A, Naini MA. MGMT-B Gene Promoter Hypermethylation in Patients with Inflammatory Bowel Disease - A Novel Finding. Asian Pac J Cancer Prev.**

**2015; 16(5):1945-52.**

#### **41: The Methylation Status of *MGMT* and *SFRP2* Genes in Iranian Patients with Polyps**

Pooneh Mokarram<sup>1, \*</sup>; Nazanin Zare<sup>2</sup>; Hamed Jafari<sup>3</sup>; Soudabeh Kavousi Pour<sup>4</sup>; Mahdi Barazesh<sup>4</sup>; and Mahvash Alizade Naini<sup>5</sup>

42: Methylation of Integrin  $\alpha 4$  and E-Cadherin Genes in Human Prostate Cancer. Mostafavi-Pour Z, Kianpour S, Dehghani M, **Mokarram P**, Torabinejad S, Monabati A.

43: DNMT3b -149C/T promoter variants and methylation of colorectal cancer-associated genes. Naghibalhossaini F, **Mokarram P**, Khalili E, Naghibalhossaini S.

#### **44: Auricular or body acupuncture: which one is more effective in reducing abdominal**

**fat mass in Iranian men with obesity: a randomized clinical trial.** Darbandi M, Darbandi S, Owji AA, **Mokarram P**, Mobarhan MG, Fardaei M, Zhao B, Abdi H, Nematy M, Safarian M, Parizadeh MR, Dabbaghmanesh MH, Abbasi P, Ferns G. *J Diabetes Metab Disord.* 2014 Dec 5;13(1):92.

#### **45: An Integrative CGH, MSI and Candidate Genes Methylation Analysis of Colorectal Tumors.**

Brim H, Abu-Asab MS, Nouraie M, Salazar J, Deleo J, Razjouyan H, **Mokarram P**, Schaffer AA, Naghibhossaini F, Ashktorab H. *PLOS one* 2014

46: Dasgheib S, Iraj C, Asaie R, Kohpeima F, Mokarram P\*. Optimization of RNA extraction from rat pancreatic tissue. *IJMS.* 2014

47: Mokarram P, Rismanchi M, Alizadeh Naeeni M, Mirab Samiee S, Paryan M, Alipour A, Honardar Z, Kavousipour S, Naghibalhossaini F, Mostafavi-Pour Z, Monabati A, Hosseni SV and Shamsdin SA. Microsatellite Instability Typing in Serum and Tissue of Patients with Colorectal Cancer: Comparing Real time PCR with Hybridization Probe and High-Performance Liquid Chromatography. **2014 jan, Molecular Biology reports**

48: 76 تا 753 هه‌اي صفيح ، 12 شماره ، 71 دوره ، 1392 اسفند تهران، پزشکی علوم دانشگاه پزشکی، دانشکده بررسی وضعیت میکروساتلایتی دو مارکرو مجله: 48

49: Mohammad Reza Hajizadeh 1, Pooneh Mokarram 1, 2, Eskandar Kamali sarvestani 3, Azam Bolhassani 4, Zohreh Mostafavi Pour 1, 5 . Recombinant Nonstructural 3 Protein, rNS3, of Hepatitis C Virus Along With Recombinant GP96 Induce IL-12, TNF $\alpha$  and  $\alpha 5$  integrin Expression in Antigen Presenting Cells. **Hepatitis monthly. 2013.**

50: Darbandi S, Darbandi M, **Mokarram P**, Owji AA, Zhao B, Ghayor-Mobarhan M, Abdi H, Saberfiroozi M, Nematy M, Safarian M, Parizadeh MR, Shakeri MT, Soukhtanloo M, Abbasi P, Salehmoghadam M, Hossein Dabbaghmanesh M, Ferns G. Effects of body electroacupuncture on plasma leptin concentrations in obese and overweight people in Iran: a randomized controlled trial. **Altern Ther Health Med.** 2013 Mar-Apr;19(2):24-31.

51: **Mokarram P**, Zamani M, Kavousipour S, Naghibalhossaini F, Irajie C, Moradi Sarabi M, Hosseini SV. Different patterns of DNA methylation of the two distinct O6-methylguanine-DNA methyltransferase (O(6)-MGMT) promoter regions in colorectal. cancer. **Mol Biol Rep.** 2013 May28.

52: Darbandi M, Darbandi S, Mobarhan MG, Owji AA, Zhao B, Irajie K, Abdi H, Saberfiroozi M, Nematy M, Safarian M, Parizadeh MR, Abbasi P, Salehmoghadam M, Fardaei M, Dabbaghmanesh MH, Ferns G, **Mokarram P**. Effects of Auricular Acupuncture Combined with Low-calorie Diet on Leptin Hormone in obese and overweight Iranian Individuals. **Acupunct Med.** 2012 Jun 22

53: Mostafavi-Pour Z, Keihani S, Talaei-Khozani T, **Mokarram P**, Fardaei M, Rohani L, Ebadat S, Sardarian A. Expression of  $\alpha 2$ ,  $\alpha 5$  and  $\alpha 6$  subunits of integrin in de-differentiated NIH3T3 cells by cell-free extract of embryonic stem cells. **Mol Biol Rep.** 2012 Feb 8

54: Jalali Mashayekhi F, Rasti M, Rahvar M, **Mokarram P**, Namavar MR, Owji AA. Expression Levels of the BDNF Gene and Histone Modifications Around Its Promoters in the Ventral Tegmental Area and Locus Ceruleus of Rats During Forced Abstinence from Morphine. **Neurochem Res.** 2012

55: Naghibalhossaini F, Zamani M, **Mokarram P**, Khalili I, Rasti M, Mostafavi-Pour Z. Epigenetic and genetic analysis of WNT signaling pathway in sporadic colorectal cancer patients from Iran. **Mol Biol Rep.** 2012 Dec 30.

56: Pakdel A, Naghibalhossaini F, **Mokarram P**, Jaberipour M, Hosseini A. Regulation of carcinoembryonic antigen release from colorectal cancer cells. **Mol Biol Rep.** 2012 Jul 2

57: L Ahmadi, S Kamkari, **P Mokarram**, K Bagheri Lankarani<sup>3</sup>, N Tabibi, H Ashktorab, M Vasei. HER-2/neu and E-cadherin Expression and Microsatellite Instability in Gastric Dysplasia. **Middle East Journal of Digestive Diseases/ Vol.3/ No.1/ March 2011.**

58: Naghibalhossaini F, Hosseini HM, **Mokarram P**, Zamani M. High Frequency of Genes' Promoter Methylation, but Lack of BRAF V600E Mutation among Iranian Colorectal Cancer Patients. **Pathol Oncol Res.** 2011.

59: Naghibalhossaini F, **Mokarram P**, Khalili I, Vasei M, Hosseini SV, Ashktorab H, Rasti M, and Abdollahi K. *MTHFR C677T* and *A1298C* variant genotypes and the risk of microsatellite instability among Iranian colorectal cancer patients. **Cancer genetics and cytogenetics.** 2010.

**60: Mokarram P**, Kumar K, Brim H, Naghibalhossaini F, Saberi-firoozi M, Nouraie M, Green R, Ed Lee E, Smoot DT, Ashktorab H. Distinct high-profile methylated genes in colorectal cancer. **Plos One** **2009** Sep 11;4(9):e7012.

**61: Brim H, Mokarram P**, Naghibalhossaini F, Saberi-Firoozi M, Al-Mandhari M, Al-Mawaly K, Al-Mjeni R, Al-Sayegh A, Raeburn S, Lee E, Giardiello F, Smoot DT, Vilkin A, Boland RC, Goel A, Hafezi M, Nouraie M, Ashktorab H. Impact of BRAF, MLH1 on the incidence of microsatellite instability high colorectal cancer in populations based study. **Mol Cancer**. **2008** Aug 21;7(1):68.

**62: Mokarram P**, Naghibalhossaini F, Saberi Firoozi M, Hosseini SV, Izadpanah A, Salahi H, Malek-Hosseini SA, Talei A, Mojallal M. Methylenetetrahydrofolate reductase C677T genotype affects promoter methylation of tumor-specific genes in sporadic colorectal cancer through an interaction with folate/vitamin B(12) status. **World J Gastroenterol**. **2008** Jun 21;14(23):3662-71.

**63: Naghibalhossaini F, Mokarram P**, Khalili I. Easy detection of 5,10-methylenetetrahydrofolate reductase 1298A/C genotype by mutagenically separated PCR assay. **Clin Chem Lab Med**. **2008**;46(7):987-9.

64: Kumar, K; Daremipouran, M; **Mokarram, P**, et al. CAN1 gene methylation profile in African Americans with colon cancer and adenoma, new candidate genes  
**GASTROENTEROLOGY** Volume: **134** Issue: **4** Pages: **A617-A617** Published: **2008**

65: Ashktorab, H; Daremipouran, M; Brim, H, **Mokarram P**, et al. Distinct Cin and Min pattern, CAN1 gene methylation profile in African-Americans (AA) with colon cancer and adenoma  
**GASTROENTEROLOGY** Volume: **134** Issue: **4** Pages: **A617-A617** Published: **2008**

**66: Karami Tehrani F, Salami S and Mokarram P**. Competition of Tamoxifen with Thyroxine for TBG Binding: Ligand Binding Assay and Computational Data. **Clinical Biochemistry**. **2001** Nov; 34(8):603-6.

**67: Karami Tehrani F, Mokarram P**, and Salami S. The Effect of Tamoxifen on the Serum Thyroid Hormones and TSH of Sprague Dawley Rats with Mammary Malignant Tumors. **Iranian J. of Basic Medical Sciences**. **2000** Aug; 2(3):89-93.

**68: Karami Tehrani F and Mokarram P**. Tamoxifen Effect on the Liver TBG Binding Capacity in Sprague Dawley Rats. **Daneshvar**. **2000** Jan; 30(8):37-44.

### [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.** 12<sup>th</sup> Iranian Congress of Biochemistry and 4<sup>th</sup> International Congress of Biochemistry and Molecular Biology, **2011, Mashhad.**
- 2. Comethylation Status of p 16 and MGMT genes and Kras mutation in colorectal carcinoma.** 12<sup>th</sup> Iranian Congress of Biochemistry and 4<sup>th</sup> International Congress of Biochemistry and Molecular Biology, **2011, Mashhad.**
- 3. Computer-Based model within E2 conserved region of Hepatitis C virus.** 12<sup>th</sup> Iranian Congress of Biochemistry and 4<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.**
6. The Effects of Auricular Acupuncture on Body Composition and Kidney Functions in Iranian Overweight and Obese Subjects. **The 12<sup>th</sup> Asian Pacific Congress of Clinical Biochemistry, 3-7 october 2010, Seoul, Korea.**
7. The Effects of Body Acupuncture on Lipid Profile in Iranian Obese and Overweight Subjects. **The 12<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> 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 12<sup>th</sup> 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. 11<sup>th</sup> 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. 11<sup>th</sup> Congress of Cellular and Molecular Advances in Non-Contagious Diseases. Royan 2010.

13. Naghibalhossaini F, Mahmoodzadeh Hosseini H, Khalili I, **Mokarram P**. The association between DNA methyltransferase 3b C-149T genotypes and promoter methylation of P14, E-cadherin and APC2 tumor suppressor genes among Iranian colorectal cancer patients. **10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 16-19 November 2009, Tehran, Iran.**
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.**
19. Naghibalhossaini F, **Mokarram P**. Inhibition of Carcinoembryonic antigen release from colorectal cancer cells to prevent CRC-Liver metastasis. **8<sup>th</sup> International Conference of Anticancer Research. Kos, Greece, Oct. 17-22, 2008.**
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.**

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23. **Mokarram P**, Naghibalhossaini F. Relationship of p16, and hMLH1 gene promoter methylation with the MTHFR C677T variant genotype in sporadic colorectal cancer. **The 9th International Congress of Biochemistry, Shiraz, Iran, 2007.**
- 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 1<sup>st</sup> Iranian Biochemistry and Biophysic 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

