

Curriculum Vitae

Name: Fakhreddin Naghibalhossaini

Date of Birth: Dec. 8, 1960

Marital Status: Married, 2 children

Academic background:

1993-2000, **Ph. D** McGill University, McGill Cancer Center, Dept. of Biochemistry
Supervisor: Dr. Clifford P. Stanners

1987-1990, **M.Sc** Shiraz University of Medical Sciences, Dept. of Biochemistry
Supervisor: Dr. Ahmad Merat

1979-1987, **B.Sc** Shiraz University, Dept. of Biology

Working Experience:

1990-1993 Instructor of Biochemistry
Fasa School of Medical Sciences, Fasa, Iran

1996-1997 Teaching Assistant
Biochemistry 300D and 460A
McGill University.

1999-2000 Postdoctoral fellows
Supervisor: Dr. Rose Johnstone
Dept. of Biochemistry, McGill University

2000-2001 Postdoctoral fellows
Samuel Lunenfeld Research Institute,
Mount Sinai Hospital, University of Toronto

2001-2002 Assistant professor of biochemistry
Fasa School of Medical Sciences, Fasa, Iran

2002- 2006 Assistant professor of biochemistry
Shiraz University of Medical Sciences, Shiraz, Iran

2006 – 2011 Associate professor of Biochemistry
Shiraz University of Medical Sciences, Shiraz, Iran

Nov. 2011-present Professor of Biochemistry,
Shiraz University of Medical Sciences, Shiraz, Iran

Feb 2008- present Chair of Biochemistry Department,
Shiraz University of Medical Sciences, Shiraz, Iran

2012- Jun 2015 Chair of Biotechnology Department,
Shiraz University of Medical Sciences, Shiraz, Iran

Publications:

- 1: Eftekhari E, Jaberie H, **Naghibalhossaini F**. Carcinoembryonic Antigen Expression and Resistance to Radiation and 5-Fluorouracil-Induced Apoptosis and Autophagy. *Int J Mol Cell Med*. 2016 Spring;5(2):80-9.
- 2: Jaberie H, **Naghibalhossaini F**. Recombinant production of native human α -1-antitrypsin protein in the liver HepG2 cells. *Biotechnol Lett*. 2016; Oct;38(10):1683-90. doi: 10.1007/s10529-016-2150-z.
- 3: Pakdel A, Malekzadeh M, **Naghibalhossaini F**. The association between preoperative serum CEA concentrations and synchronous liver metastasis in colorectal cancer patients. *Cancer Biomark*. 2016;16(2):245-52. doi:10.3233/CBM-150561.
- 4: Varedi M, Pajouhi N, Owji M, **Naghibalhossaini F**, Omrani GH. Differential modulation of claudin 4 expression and myosin light chain phosphorylation by thyroid function in lung injury. *Clin Respir J*. 2015 Nov 30. doi:10.1111/crj.12418. **In press**
- 5: Sarabi MM, **Naghibalhossaini F**. Association of DNA methyltransferases expression with global and gene-specific DNA methylation in colorectal cancer cells. *Cell Biochem Funct*. 2015 Oct;33(7):427-33. doi: 10.1002/cbf.3126.
- 6: Khoshdel Z, **Naghibalhossaini F**, Abdollahi K, Shojaei S, Moradi M, Malekzadeh M. Serum Copper and Zinc Levels Among Iranian Colorectal Cancer Patients. *Biol Trace Elem Res*. 2016 Apr;170(2):294-9. doi: 10.1007/s12011-015-0483-4.
- 7: **Naghibalhossaini F**, Mokarram P, and Khalili I. *DNMT3b* -149C/T promoter variants and methylation of colorectal cancer-associated genes, **Cancer Biomarkers** , 2015, 15; 227–233
- 8: **Naghibalhossaini F**, Sayadi K, Jaberie H, Bazargani A, Eftekhari E, and Hosseinzadeh M. Inhibition of CEA release from epithelial cells by lipid A of gram negative bacteria . **Cellular & Molecular Biology Letters**, 2015, 20, pp 374-384
- 9: **Naghibalhossaini F**, Ehyakonandeh H, Nikseresht A, and Kamali E. Association between C677T and A1298C genotypes of MTHFR and multiple sclerosis in patients from Iran. **Int J Mol Cell Med**. 2015 Spring;4(2):87-93.
- 10: Pajouhi N, Owji M, **Naghibalhossaini F**, Omrani GH, Varedi M. Modulation by thyroid hormone of myosin light chain phosphorylation and aquaporin 5 protein expression in intact lung. **J Physiol Biochem**. 2015 Mar;71(1):99-106. doi: 10.1007/s13105-015-0386-z.
- 11: Brim H, Abu-Asab MS, Nouraie M, Salazar J, Deleo J, Razjouyan H, Mokarram P, Schaffer AA, **Naghibalhossaini F**, Ashktorab H. An integrative CGH, MSI and candidate genes methylation analysis of colorectal tumors. **PLoS One**. 2014 Jan 27;9(1):e82185. doi: 10.1371/journal.pone.0082185

- 12: Hemmati M, Seghatoleslam A, Rasti M, Ebadat S, **Naghibalhossaini F** and Mostafavi-Pour Z. Additive effect of recombinant *mycobacterium tuberculosis* ESAT-6 protein and ESAT-6/CFP10 fusion protein, in adhesion of macrophages via fibronectin receptors. **J Microbiol Immunol Infect.** **2014** pii: S1684-1182(14)00113-3. doi: 10.1016/j.jmii.2014.06.002.
- 13: Eftekhar E, Rasti M, **Naghibalhossaini F**, Sadeghi Y. The Study of DNAMethyltransferase-3B Promoter Variant Genotype among Iranian Sporadic Breast Cancer Patients. **Iran J Med Sci.** **2014** May;39(3):268-74.
- 14: 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, Hosseini SV, 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. **Mol Biol Rep.** **2014** May;41(5):2835-44.
- 15: Brim H, Abu-Asab MS, Nourai M, Salazar J, Deleo J, Razjouyan H, Mokarram P, Schaffer AA, **Naghibalhossaini F**, Ashktorab H. An Integrative CGH, MSI and Candidate Genes Methylation Analysis of Colorectal Tumors. **PLoS One.** **2014** Jan 27;9(1):e82185. doi: 10.1371/journal.pone.0082185.
- 16: Eftekhar E and **Naghibalhossaini F**. Carcinoembryonic antigen expression level as a predictive factor for response to 5-fluorouracil in colorectal cancer. **Mol Biol Rep.** **2014** Jan;41(1):459-66.
- 17: 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** May;40 (5):3851-7.
- 18: **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** May;39(5):6171-8.
- 19: Pakdel A, **Naghibalhossaini F**, Mokarram P, Jaberipour M, Hosseini A. Regulation of carcinoembryonic antigen release from colorectal cancer cells. **Mol Biol Rep.** **2012** Apr;39(4):3695-704.
- 20: **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** Dec;17(4):819-25. doi: 10.1007/s12253-011-9388-5.
- 21: Rahvar M, Nikseresht M, Shafiee SM, **Naghibalhossaini F**, Rasti M, Panjehshahin MR, Owji AA. Effect of oral resveratrol on the BDNF gene expression in the hippocampus of the rat brain. **Neurochem Res.** **2011** May;36(5):761-5.
- 22: **Naghibalhossaini F**, Mokarram P, Khalili I, Vasei M, Hosseini SV, Ashktorab H, Rasti M, Abdollahi K. MTHFR C677T and A1298C variant genotypes and the risk of

microsatellite instability among Iranian colorectal cancer patients. **Cancer Genet Cytogenet.** 2010 Mar;197(2):142-51.

23: Mokarram P, Kumar K, Brim H, **Naghibalhossaini F**, Saberifiroozi M, Nourai M, Green R, Lee E, Smoot DT, Ashktorab H. Distinct high-profile methylated genes in colorectal cancer. **PLoS ONE.** 2009 Sep; 4 (9): e7012

24: Mokarram P., **Naghibalhossaini F.**, Saberi Firoozi M., Hosseini S.V, Izadpanah A., Salahi H., Malek-Hosseini S.A., 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 B12 status. **World J. Gastroenterol.** 2008 Jun 21;14 (23): 3662-71.

25: Habibi P., Sadjjadi SM., Owji M, Moattari A., Sarkari B., **Naghibalhossaini F.**, Hatam GR., Kazemian S. Characterization of *in Vitro* Cultivated Amastigote like of *Leishmania major*: A Substitution for *in Vivo* Studies. **Iranian J Parasitol**: 2008, Vol.3, No.1: 6-15

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

27: Brim H, Mokarram P., **Naghibalhossaini F.**, Saberi-Firoozi M., Al-Mandhari M., Al-Mjeni R., Al-Sayegh A., Raeburn S., Lee EL., Hylind L., Iacozio-Dononue C., Giardiello F., Smoot DT., Vilkin A., Boland RC., Goel A., Hafezi M., Nourai M., and 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.

28: **Naghibalhossaini F**, Yoder AD, Tobi M, Stanners CP. Evolution of a tumorigenic property conferred by glycoposphatidyl-inositol membrane anchors of carcinoembryonic antigen gene family members during the primate radiation. **Mol Biol Cell.** 2007 Apr;18(4):1366-74.

29: **Naghibalhossaini F**, Moaddeb A. An improved PCR-based amplification of unknown homologous DNA sequences. **Biomol Eng.** 2006 Sep;23(4):209-12.

30: **Naghibalhossaini F**, Pakdel A, Ghaderi AA, Saberi Firoozi M. Effective Production of Carcinoembryonic Antigen by Conversion of the Membrane-bound Into a Recombinant Secretory Protein by Site-specific Mutagenesis. **Pathol Oncol Res.** 2005;11(4):211-7.

31: **Naghibalhossaini F.**, and Ebadi P. Evidence for CEA release from human colon cancer cells by an endogenous GPI-PLD enzyme. **Cancer Letters.** 2006 Mar 28;234(2):158-67.

32: **Naghibalhossaini F.**, Ay J, Alavi J, Oveisi S, Chahardooli R. Effect of opium smoking on concentrations of carcinoembryonic antigen and tissue polypeptide antigen. **Int J Biol Markers.** 2004 Oct Dec;19(4):305-9.

33: **Naghibalhossaini F.**, Stanners CP. Minimal mutations are required to effect a radical change in function in CEA family members of the Ig superfamily. **J Cell Sci.** 2004 Feb 15;117(Pt 5):761-9.

34: **Naghibalhossaini F.**, Nault F., Saragovi U., Nedev H., and Johnstone R. M. Functional consequences of the in-frame insertion of a transposon into the mutated gamma amino acid transporter of *Saccharomyces cerevisiae*. **Med Sci Monit.** 2002 Nov;8 (11): BR460-70.

35: Khamessan A., **Naghibalhossaini F.**, Vedadi M., and Johnstone R. M. (2001) Mutated-gamma-Actin Restores Growth to a Yeast Amino Acid Transport Defective Mutant. **Journal of Cellular Physiology**, 186: 124-135

Genbank submissions

1. Naghibalhossaini,F.

Callicebus moloch CEACAM5-related protein (CEACAM) mRNA, partial cds.

Accession Number: HM565962.1

Submitted (19-JUN-2010) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

2. Naghibalhossaini,F.

Tarsius syrichta GPI-anchored CEACAM protein gene, partial cds.

Accession Number: HM854940.1

Submitted (24-JUL-2010) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

3. Naghibalhossaini,F.

Cynocephalus volans CEACAM-related protein gene, partial cds.

Accession Number: HM854941.1

Submitted (24-JUL-2010) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

4. Naghibalhossaini,F. and Rasti,M.

Macaca mulatta CEACAM protein gene, partial cds.

Accession Number: HM854942.1

Submitted (24-JUL-2010) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

5. Naghibalhossaini,F. and Stanners,C.P.

Callicebus moloch GPI-anchored CEACAM protein mRNA, partial cds.

Accession Number: EF653363.1

Submitted (06-JUN-2007) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

6. Naghibalhossaini,F. and Johnstone, R.M.

Saccharomyces cerevisiae strain 22574d mutant GABA transporter mRNA, complete cds.

Accession Number: AY169693.1

Submitted (28-OCT-2002) Biochemistry, Shiraz University of Medical Sciences, Zand Street, Shiraz, Fars 71345, Iran

Technical Skills:

A wide range of molecular and cell biological techniques including gene cloning, RT-PCR, Real time RT-PCR, DNA methylation analysis, Site specific mutagenesis and chimeric DNA construction, cell culture (bacterial, yeast and mammalian) and transfection, RNA, DNA, protein extraction, purification and blotting, immunoprecipitation, immunohistochemistry, DNA sequencing, SSCP analysis, microsatellite analysis, chromatography and protein purification, flowcytometry, transgenic mice (genotyping) and so on.

Thesis supervision:

I supervised 6 Ph.D and 11 M. Sc. Biochemistry students thesis as a major advisor so far. I was also a member of thesis advisory committee and co-advisor of more than 20 biochemistry and Physiology graduate students.

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