

Parvaneh Nikpour, PhD

Associate Professor

Curriculum vitae

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Personal Information

Name: Parvaneh

Surname: Nikpour

Gender: Female

Nationality: Iranian

Date of Birth: Jan. 7, 1979

Marital status: Married with two children (6 and 8 yrs. Old)

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Current position

2017-present, Associate Professor, Isfahan University of Medical Sciences, Isfahan, Iran

2010-2017, Assistant Professor, Isfahan University of Medical Sciences, Isfahan, Iran

Academic degrees and Internship periods

2018 (July-October), Guest researcher in the Department of Systems Biology and Bioinformatics (SBI), Prof. Olaf Wolkenhauer, Rostock, Germany

2012 (March-April), Guest researcher in the Genetics Department of Florence University, Research lab of Prof. Maurizio Genuardi, Florence, Italy

2011 (July-Sep), Guest researcher in the IOR Institute of Oncology Research, Research lab of Prof. Giuseppina Carbone, Bellinzona, Switzerland

2007-2008, Ph.D. Internship period at the Urology research lab of Prof. WA Schulz, School of Medicine, Heinrich-Heine University, Duesseldorf, Germany

2003-2010, Ph.D. of Molecular Genetics, School of Basic Sciences, Tarbiat Modarres University, Tehran, Iran

2000-2003, MSc of Genetics, School of Basic Sciences, Tarbiat Modarres University, Tehran, Iran

1996-2000, B.Sc. of Cell and Molecular Biology, School of Basic Sciences, Shiraz University, Shiraz, Iran

Work experiences

2017-present, Associate Professor (Teaching and Research), Isfahan University of Medical Sciences, Isfahan, Iran

2010-2017, Assistant Professor (Teaching and Research), Isfahan University of Medical Sciences, Isfahan, Iran

2003-2005, University lecturer (Teaching), Khatam University, Tehran, Iran

Theses currently under my supervision

Hosseini M, MSc thesis, Identification of diagnostic biomarkers for gastric cancer using transcriptomics data via machine learning approaches, Isfahan University of Medical Sciences, 2020-current

Salehi S, MSc thesis, Construction and analysis of a ceRNA network consisting of differentially-expressed lncRNAs, circRNAs, miRNAs and mRNAs involved in the gastric cancer and experimental evaluation of two candidate ceRNAs from the network, Isfahan University of Medical Sciences, 2020-current

Bahrani B, MSc thesis, Integrated analysis of eRNAs (enhancer RNAs) involved in the gastric cancer by applying a Systems Biology approach and expression study of a candidate eRNA, Isfahan University of Medical Sciences, 2019-current

Khalafian A, MSc thesis, Integrated analysis of transcribed ultraconserved regions (T-UCR) involved in the gastric cancer by applying a Systems Biology approach and expression study of a candidate T-UCR, Isfahan University of Medical Sciences, 2019-current

Ansari S, PhD dissertation, Integrated analysis of noncoding RNAs involving in the epithelial-mesenchymal-transition of gastric cancer applying a Systems biology approach and experimental study of a candidate, Isfahan University of Medical Sciences, 2018-current

(My) Ph.D. and M.Sc. theses:

Ph.D. Dissertation: Studying stem cell self-renewal genes in bladder cancer and evaluation of interfering in their expression using RNAi technique
Supervisors: Prof. S.J. Mowla and Prof. W.A. Schulz (Grade 19.65/20)

M.Sc. Thesis: Evaluation of CatSper gene expression in biopsies taken from testis and its relation to infertility (Grade 20/20)
Supervisor: Prof. S.J. Mowla

Awards and Honours

2005, Honored as the distinguished student in the Razi Festival of Medical Sciences, Iran

2004, The Iranian winner of the 5th Royan International Research Award, Iran

2003, Honored as the distinguished researcher in Shahid Beheshti University of Medical Sciences, Iran

2003, Honored as the distinguished M.Sc. student in Tarbiat Modares University, Iran

2003, Honored as the distinguished M.Sc. researcher in Tarbiat Modares University, Iran

2003, First place award for M.Sc. thesis in the faculty of Basic Sciences, Tarbiat Modares University, Iran

2003, Ranked 1 in Entrance exam of Ph.D. program in the Faculty of Basic Sciences, Tarbiat Modares University, Iran

2003, Honored as the top one graduate student of the year in the Faculty of Basic Sciences, Tarbiat Modares University, Iran

2003, Passing the final admission assessment of the “European Molecular Biology Laboratory” International Ph.D. program, Heidelberg, Germany

2001, Passing the admission assessment of Ph.D. program, held by: The Ministry of Science, Research and Technology of the Iran

2000, Honored as the top one graduate student of the year in the Faculty of Basic Sciences, Shiraz University, Iran

2000, Ranked: 1 out of about 5000 examinees, Entrance exam of M.Sc. of Genetics, held by: The Ministry of Science, Research and Technology of the Iran

2000, Ranked: 2 out of about 5000 examinees, Entrance exam of M.Sc. of Cell Biology, held by: The Ministry of Science, Research and Technology of the Iran

2000, Ranked: 1 out of about 4000 examinees, Entrance exam of M.Sc. of Human Genetics, held by: The Ministry of Health and Medical Education of the Iran

2000, Ranked: 8 out of about 5000 examinees, in the Fifth Scientific Olympiad for University Students of the Iran (in the field of Biology)

Research interests

Bioinformatics, Systems Biology and Machine learning

Multi-Omics data integration

Cancer Molecular Genetics

Targeting noncoding RNAs in disease

Main Publications

(last updated 14 Jan 2021, * corresponding author)

Ganji M, Mohammadtaheri F, Mirmohammadsadeghi N, Emadi-Baygi M, Malek M, Waltemath D, Salehzadeh-Yazdi A, **Nikpour P***, Inference and validation of an integrated regulatory network of autism, *BioRxiv Preprint*, 10 Jun 2020, doi: 10.1101/2020.06.08.139733, Under Revision (*Briefings in Bioinformatics*, 2021)

Rahimi A, Sedighi R, Emadi-Baygi M, Honardoost MA, Mowla SJ, Khanahmad H, **Nikpour P***. Bioinformatics prediction and experimental validation of a novel microRNA: hsa-miR-B43 within human *CDH4* gene with a potential metastasis-related function in breast cancer. *J Cell Biochem*. 2020 Feb;121(2):1307-1316. doi: 10.1002/jcb.29367

Khalaj Z, Baratieh Z, **Nikpour P**, Schwab M, Schaeffeler E, Mokarian F, Khanahmad H, Salehi R, Mürdter TE, Salehi M. Clinical Trial: CYP2D6-Related Dose Escalation of Tamoxifen in Breast Cancer Patients With Iranian Ethnic Background Resulted in Increased Concentrations of Tamoxifen and Its Metabolites. *Front Pharmacol*. 2019 May 24;10:530, doi: 10.3389/fphar.2019.00530

Mansouri-Movahed F, Akhoundi F, **Nikpour P**, Garshasbi M, Emadi-Baygi M, Identification of a novel *HEXB* Mutation in an Iranian Family with suspected patient to GM2-gangliosidosis, *Clin Case Rep*. 2020 Aug 11;8(12):2583-2591. doi: 10.1002/ccr3.3103

Khosravian M, **Nikpour P***, Emadi-Baygi M, Soleimanpour A, Yadollah Moghadam F, Association Analysis of Monoamine Oxidase-A Gene Promoter Polymorphism (MAOA uVNTR) for Antisocial Behavior: Absence of the Counting Number Repeats in Central Iran, *Archives of Neuroscience*. Online ahead of Print; 2020, 7(4):e102247. doi: 10.5812/ans.102247

Jahani M, Khanahmad H, **Nikpour P***. Evaluation of the Effects of Valproic Acid Treatment on Cell Survival and Epithelial-Mesenchymal Transition-Related Features of Human Gastric Cancer Cells. *J Gastrointest Cancer*. 2020 Jul 3. doi: 10.1007/s12029-019-00332-8

Zarei R, **Nikpour P**, Rashidi B, Eskandari N, Aboutorabi R. Evaluation of Muc1 Gene Expression at The Time of Implantation in Diabetic Rat Models Treated with Insulin, Metformin and Pioglitazone in The Normal Cycle and Ovulation Induction Cycle. *Int J Fertil Steril*. 2020 Oct;14(3):218-222. doi:10.22074/ijfs.2020.44409

Zarei R, Aboutorabi R, Rashidi B, Eskandari N, **Nikpour P**. Evaluation of vascular endothelial growth factor A and leukemia inhibitory factor expressions at the time of implantation in diabetic rats following treatment with Metformin and Pioglitazone. *Int J Reprod Biomed*. 2020 Sep 20;18(9):713-722. doi:10.18502/ijrm.v13i9.7666

Zarrin Y, Bakhteyari A, **Nikpour P**, Mostafavi FS, Eskandari N, Matinfar M, Aboutorabi R. A Study on the Presence of Osteopontin and $\alpha 3\beta 1$ Integrin in the Endometrium of Diabetic Rats at the Time of Embryo Implantation. *J Reprod Infertil*. 2020 Apr-Jun;21(2):87-93

Zarei R, **Nikpour P**, Rashidi B, Eskandari N, Aboutorabi R. Evaluation of Diabetes Effects on the Expression of Leukemia Inhibitory Factor and Vascular Endothelial

Growth Factor A Genes and Proteins at the Time of Endometrial Receptivity after Superovulation in Rat Model. *Adv Biomed Res.* 2019 Nov 27;8:66. doi: 10.4103/abr.abr_159_19

Bakhteyari Ph D Candidate A, Zarrin Y, **Nikpour P**, Sadat Hosseiny Z, Sadat Mostafavi F, Eskandari N, Matinfar M, Aboutorabi R. Diabetes mellitus increased integrins gene expression in rat endometrium at the time of embryo implantation. *Int J Reprod Biomed.* 2019 Jul 29;17(6):395-404. doi: 10.18502/ijrm.v17i6.4810

Khalaj Z, Baratieh Z, **Nikpour P**, Khanahmad H, Mokarian F, Salehi R, Salehi M. Distribution of *CYP2D6* polymorphism in the Middle Eastern region. *J Res Med Sci.* 2019 Jul 24;24:61. doi: 10.4103/jrms.JRMS_1076_18

Bakhteyari A, **Nikpour P**, Mostafavi FS, Eskandari N, Matinfar M, Soleimani Asl S, Aboutorabi R. Impact of Metformin and Pioglitazone on Serum Level of Tumor Necrosis Factor-Alpha and Lipid Profiles during Implantation Window in Diabetic Rats. *Int J Fertil Steril.* 2019 Jul;13(2):148-153

Ghasemi S, Emadi-Baygi M, **Nikpour P***. Down-regulation of circular RNA ITCH and circHIPK3 in gastric cancer tissues. *Turk J Med Sci.* 2019 Apr 18;49(2):687-695

Behrouznezhad F, Ejeian F, Emadi-Baygi M, **Nikpour P**, Nasr-Esfahani MH. Hypothesis: A Challenge of Overexpression Zfp521 in Neural Tendency of Derived Dental Pulp Stem Cells. *Cell J.* 2019 Apr;21(1):99-102

Hosseiny ZS, **Nikpour P**, Bakhtiary A, Mostafavi FS, Matinfar M, Jahani M, Aboutorabi R. Evaluation of Osteopontin Gene Expression in Endometrium of Diabetic Rat Models Treated with Metformin and Pioglitazone. *Int J Fertil Steril.* 2019 Jan;12(4):293-297

Nourbakhsh N, Emadi-Baygi M, Salehi R, **Nikpour P***. Gene Expression Analysis of Two Epithelial-mesenchymal Transition-related Genes: Long Noncoding RNA-ATB and SETD8 in Gastric Cancer Tissues. *Adv Biomed Res.* 2018 Mar 27;7:42

Tajamolian M, Kolahdouz P, **Nikpour P**, Forouzannia SK, Sheikhha MH, Yazd EF. A Rare Missense Mutation and a Polymorphism with High Frequency in LDLR Gene among Iranian Patients with Familial Hypercholesterolemia. *Adv Biomed Res.* 2018 Feb 21;7:37

Salehi S, Emadi-Baygi M, Rezaei M, Kelishadi R, **Nikpour P***. Lack of Evidence of the Role of APOA5 3'UTR Polymorphisms in Iranian Children and Adolescents with Metabolic Syndrome. *Diabetes Metab J.* 2018 Feb;42(1):74-81

Tanhaei S, **Nikpour P***, Ghaedi K, Rabiee F, Homayouni Moghadam F, Nasr-Esfahani MH. RNA/Protein Discordant Expression of Fndc5 in Central Nervous System Is Likely to Be Mediated Through microRNAs. *DNA Cell Biol.* 2018 Apr;37(4):373-380

Baratieh Z, Khalaj Z, Honardoost MA, Emadi-Baygi M, Khanahmad H, Salehi M, **Nikpour P***. Aberrant expression of PlncRNA-1 and TUG1: potential biomarkers for gastric cancer diagnosis and clinically monitoring cancer progression. *Biomark Med.* 2017 Dec;11(12):1077-1090

Nasrollahzadeh-Khakiani M, Emadi-Baygi M, **Nikpour P***. Augmented expression levels of lncRNAs ecCEBPA and UCA1 in gastric cancer tissues and their clinical significance. *Iran J Basic Med Sci.* 2017 Oct;20(10):1149-1158

Kheirollahi M, Moodi M, Ashouri S, **Nikpour P**, Kazemi M. Evaluation of miR-362 Expression in Astrocytoma of Human Brain Tumors. *Adv Biomed Res.* 2017 Oct 16;6:129

Akbarian SA, Salehi-Abargouei A, Pourmasoumi M, Kelishadi R, **Nikpour P**, Heidari-Beni M. Association of Brain-derived neurotrophic factor gene polymorphisms with body mass index: A systematic review and meta-analysis. *Adv Med Sci.* 2018 Mar;63(1):43-56

Emadi-Baygi M, Sedighi R, Nourbakhsh N, **Nikpour P***. Pseudogenes in gastric cancer pathogenesis: a review article. *Brief Funct Genomics.* 2017 Nov 1;16(6):348-360

Salehi S, Emadi-Baygi M, Rezaei M, Kelishadi R, **Nikpour P***. Identification of a New Single-nucleotide Polymorphism within the Apolipoprotein A5 Gene, which is Associated with Metabolic Syndrome. *Adv Biomed Res.* 2017 Mar 7;6:24

Miranzadeh-Mahabadi H, Emadi-Baygi M, **Nikpour P**, Mostofizade N, Hovsepian S, Hashemipour M. Analysis of the T354P mutation of the sodium/iodide cotransporter gene in children with congenital hypothyroidism due to dysmorphogenesis. *Adv Biomed Res.* 2016 Apr 19;5:73

Nasrollahzadeh-Khakiani M, Emadi-Baygi M, Schulz WA, **Nikpour P***. Long noncoding RNAs in gastric cancer carcinogenesis and metastasis. *Brief Funct Genomics.* 2017 May 1;16(3):129-145

Miranzadeh-Mahabadi H, Emadi-Baygi M, **Nikpour P***, Kelishadi R. Association Study Between Metabolic Syndrome and rs8066560 Polymorphism in the Promoter Region of Sterol Regulatory Element-binding Transcription Factor 1 Gene in Iranian Children and Adolescents. *Int J Prev Med.* 2016 Feb 23;7:41

Bahari F, Emadi-Baygi M, **Nikpour P***. miR-17-92 host gene, overexpressed in gastric cancer and its expression was negatively correlated with the metastasis. *Indian J Cancer.* 2015 Jan-Mar;52(1):22-5

Miranzadeh-Mahabadi H, Miranzadeh-Mahabadi H, **Nikpour P***, Emadi-Baygi M, Kelishadi R. Comparison of TaqMan Real-Time and Tetra-Primer ARMS PCR Techniques for Genotyping of Rs 8066560 Variant in Children and Adolescents with Metabolic Syndrome. *Adv Clin Exp Med.* 2015 Nov-Dec;24(6):951-5

Nikpour P, Emadi-Baygi M, Fatemi SG, Kelishadi R. Absence of association between -286C>A>T polymorphism in the CRP gene and metabolic syndrome in Iranian pediatric. *Adv Biomed Res.* 2015 Sep 28;4:210

Afzali A, Emadi-Baygi M, **Nikpour P**, Nazemroaya F, Kheirollahi M. Expression of ZFX gene correlated with the central features of the neoplastic phenotype in human brain tumors with distinct phenotypes. *Adv Biomed Res.* 2015 Aug 31;4:179

Emadi-Baygi M, **Nikpour P***, Emadi-Andani E. SIX1 overexpression in diffuse-type and grade III gastric tumors: Features that are associated with poor prognosis. *Adv Biomed Res.* 2015 Jul 27;4:139

Rezaei M, Emadi-Baygi M, Hoffmann MJ, Schulz WA, **Nikpour P***. Altered expression of LINC-ROR in cancer cell lines and tissues. *Tumour Biol.* 2016 Feb;37(2):1763-9

Mohammadi Z, Shariati L, Khanahmad H, Kolahdouz M, Kianpoor F, Ghanbari JA, Hejazi Z, Salehi M, **Nikpour P**, Tabatabaiefar MA. A Lentiviral Vector Expressing Desired Gene Only in Transduced Cells: An Approach for Suicide Gene Therapy. *Mol Biotechnol.* 2015 Sep;57(9):793-800

Rahmati S, Emadi-Baygi M, **Nikpour P**, Emadi-Andani E. Expression profile of ZFX isoform3/variant 5 in gastric cancer tissues and its association with tumor size. *Iran J Basic Med Sci.* 2014 Oct;17(10):767-71

Fatemi SG, Emadi-Baygi M, **Nikpour P***, Kelishadi R, Hashemipour M. Absence of Association between -1131T>C Polymorphism in the Apolipoprotein APOA5 Gene and Pediatric Metabolic Syndrome. *Iran J Pediatr.* 2014 Jun;24(3):319-22

Greife A, Jankowiak S, Steinbring J, **Nikpour P**, Niegisch G, Hoffmann MJ, Schulz WA. Canonical Notch signalling is inactive in urothelial carcinoma. *BMC Cancer.* 2014 Aug 29;14:628

Emadi-Andani E, **Nikpour P***, Emadi-Baygi M, Bidmeshkipour A. Association of *HOTAIR* expression in gastric carcinoma with invasion and distant metastasis. *Adv Biomed Res.* 2014 May 28;3:135

Nikpour P, Miranzadeh-Mahabadi H, Emadi-Baygi M, Kelishadi R. Association of rs8066560 variant in the sterol regulatory element-binding protein 1 (SREBP-1) and miR-33b genes with hyperglycemia and insulin resistance. *J Pediatr Endocrinol Metab.* 2014 Jul;27(7-8):611-5

Nikpour P, Emadi-Baygi M, Emadi-Andani E, Rahmati S. EYA1 expression in gastric carcinoma and its association with clinicopathological characteristics: a pilot study. *Med Oncol.* 2014 May;31(5):955

Nikpour M, Emadi-Baygi M, Fischer U, Niegisch G, Schulz WA, **Nikpour P***. MTDH/AEG-1 contributes to central features of the neoplastic phenotype in bladder cancer. *Urol Oncol.* 2014 Jul;32(5):670-7

Nikpour P, Mowla SJ, Forouzandeh-Moghaddam M, Ziaee SA. The stem cell self-renewal gene, Musashi 1, is highly expressed in tumor and non-tumor samples of human bladder. *Indian J Cancer.* 2013 Jul-Sep;50(3):214-8

Emadi-Baygi M, **Nikpour P***, Mohammad-Hashem F, Maracy MR, Haghjooy-Javanmard S. MSI2 expression is decreased in grade II of gastric carcinoma. *Pathol Res Pract.* 2013 Nov;209(11):689-91

Mostofizade N, **Nikpour P**, Javanmard SH, Emadi-Baygi M, Miranzadeh-Mahabadi H, Hovsepian S, Hashemipour M. The G395R Mutation of the Sodium/Iodide Symporter (NIS) Gene in Patients with Dyshormonogenetic Congenital Hypothyroidism. *Int J Prev Med.* 2013 Jan;4(1):57-62

Nikpour P, Emadi-Baygi M, Mohhamad-Hashem F, Maracy MR, Haghjooy-Javanmard S. MSI1 overexpression in diffuse type of gastric cancer. *Pathol Res Pract*. 2013 Jan 15;209(1):10-3

Baygi ME, **Nikpour P***. Deregulation of MTDH gene expression in gastric cancer. *Asian Pac J Cancer Prev*. 2012;13(6):2833-6

Nikpour P, Emadi-Baygi M, Mohammad-Hashem F, Maracy MR, Haghjooy-Javanmard S. Differential expression of ZFX gene in gastric cancer. *J Biosci*. 2012 Mar;37(1):85-90

Nikpour P, Baygi ME, Steinhoff C, Hader C, Luca AC, Mowla SJ, Schulz WA. The RNA binding protein Musashi1 regulates apoptosis, gene expression and stress granule formation in urothelial carcinoma cells. *J Cell Mol Med*. 2011 May;15(5):1210-24

Nikpour P, Mowla SJ, Jafarnejad SM, Fischer U, Schulz WA. Differential effects of Nucleostemin suppression on cell cycle arrest and apoptosis in the bladder cancer cell lines 5637 and SW1710. *Cell Prolif*. 2009 Dec;42(6):762-9

Nikpour P, Forouzandeh-Moghaddam M, Ziaee SA, Dokun OY, Schulz WA, Mowla SJ. Absence of PIWIL2 (HILI) expression in human bladder cancer cell lines and tissues. *Cancer Epidemiol*. 2009 Oct;33(3-4):271-5

Nikpour P, Mowla SJ, Movahedin M, Ziaee SA, Tiraihi T. CatSper gene expression in postnatal development of mouse testis and in subfertile men with deficient sperm motility. *Hum Reprod*. 2004 Jan;19(1):124-8

Referees

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