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### **ADDRESS (OFFICE)**

Proteomics Research Center, Shaihd Beheshti University of Medical Sciences, Tehran, IRAN

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### **EDUCATION**

2002      **Ph.D. of Biophysics**, University of Tehran, IRAN

Thesis title: *Thermodynamic study of human Transferrin (apo and holo) structure in presents and absences of Sodium Dodecyl Sulfate*

1993      **M.S. of Biophysics**, University of Tehran, IRAN

Thesis title: *Biophysical chemistry study of pigeon hemoglobin-several anionic and cationic detergents reciprocal effect*

1989      **B.S. of Biology**, Shahid Chamran University- Ahvaz, IRAN

### **RESEARCH INTERESTS**

Protein structure, Proteomics, Biothermodynamics, Biological modeling, Cellular and molecular biology

### **EXPERIENCE**

*Teaching experience:*

- Supervision and monitoring of graduate students during their thesis research
- Biophysics course for none-science majors
- Advanced Biophysics course for graduate students
- Biophysical and Biochemical Methods for graduate students
- Cellular and Molecular Biology for undergraduate students
- Bioinformatics for graduate students

*Academic and administrative experience*

- Research manager of Shahid Beheshti University of Medical Sciences (2011 - present)
- Head of Proteomics Research Center of Shahid Beheshti University of Medical Sciences (2011 - present)
- Head of Department of Basic Science of Faculty of Paramedical Sciences of Shahid Beheshti University of Medical Sciences (2009-present).
- Professor of Biophysics ( 2014- present)

## **PUBLICATIONS**

### *Books in Persian language*

- Proteomics 2009
- Biophysics 2010 (5<sup>th</sup> Edition)
- Artificial Neural Network 2010
- Fundamental and methods of Biophysics 2012
- Biophysics (2012)

## **HONORS AND AWARDS**

Shahid Beheshti University of Medical Sciences Outstanding Researcher Award	(2011)
Top Faculty member of Shahid Beheshti University of Medical Sciences	(2009)
Health Ministry of IRAN Top Researcher Award	(2004)
Health Ministry of IRAN Top Researcher Award	(2003)
Selected as a Top National Ph.D. student	(2001)

## **CONFERENCES ATTENDED (SELECTED)**

**M. Rezaei-Tavirani**, Reza Vafaei, Mona Zamanian-Azodi, *Investigation of smart responses of human serum albumin in fever condition: an in vitro approach*, San Francisco, California, USA, February, 2014.

USA (Biophysical Journal Vol.104, No2, page 217a.)

**M. Rezaei-Tavirani**, R. Tadayon, M. Shahani. *Fine Structural Analysis of Human Serum Albumin*, First International Conference on Biophysical Chemistry, Ardabil University of Medical Sciences, Ardabil, Iran, June 13-15, 2012.

Sadegh Babashah, Masoud Soleimani, Majid Sadeghizadeh, Abbas Hajifathali, **Mostafa Rezaei Tavirani** and Mojtaba Ghadiani. *High-throughput Q-RT-PCR-based detection of microRNAs; a promising novel clinical tool for leukemia diagnosis and therapy* The 5<sup>th</sup> International & 10<sup>th</sup> National Congress on

Quality Improvement in Clinical Laboratory Tehran, Iran, April 23-26, 2012 (Laboratory & Diagnosis Vol.3, No74, Supplement Issue, page 12)

**M Rezaei-Tavirani**, H.Zali and S.H. Moghadamnia. *Introducing human Calprotectin as a potent anticancer with minimal side effect*. 10<sup>th</sup> Iranian Congress of Biochemistry and 3<sup>rd</sup> International Congress of Biochemistry and Molecular Biology. Tehran, Iran, November 16-19, 2009.

S. Kalantari, S.H. Moghadam-Nia, **M. Rezaei-Tavirani**, A. Shabani and S. Z. Moosavi-Nejad. *Inhibition of Adenosine Deaminase activity by Spermine* 14<sup>th</sup> National & 2<sup>th</sup> International Conference of Biology, Tarbiat Modares University, Tehran, Iran, August 29-31, 2006.

S.H. Moghaddamnia, S. Mahdavi, F. Towhidkhan, **M. Rezaei-Tavirani**, Sh. Gharibzadeh and A. Shabani. *Modeling gap junction behavior in myocytes: electrical field versus electrical coupling*, 29<sup>th</sup> European Peptide Symposium, Gdansk, Poland, September 3-8, 2006 (Journal of Peptide Science Vol.12, Suppl. S, page 189.)

M. S. Atri, **M. Rezaei-Tavirani**, M. H. Sanati, A. A. Saboury and A. A. Moosavi-Movahedi. *Structural study of human growth hormone: A thermodynamic and spectroscopic approach*, 49th Annual Meeting of Biophysical Society, Long Beach, California, USA, 12-16, 2005 (Biophysical Journal Vol.88, No2, page 212a.)

S.H. Moghaddamnia, **M. Rezaei-Tavirani**, B. Ranjbar, S. Z. Moosavi-Nejad and S. Hesami-Tackallou. *Thermal predenaturation (conformational change) of human adenosine deaminase (ADA)*, 3<sup>rd</sup> Annual World Congress of HUPO, Beijing, China, October 25-27, 2004 (Molecular & Cellular Proteomics Vol.3, No10, page 241s.)

**M. Rezaei-Tavirani**, and A.A. Moosavi-Movahedi. *Apo transferring domain analysis by sodium n-dodecyl sulphate as a probe*, 46th Annual Meeting of Biophysical Society, San Francisco, California, USA, , 2002 (Biophysical Journal Vol.82, No1, page 458a.)

S. Z. Moosavi-Nejad, **M. Rezaei-Tavirani**, A.A. Moosavi-Movahedi, G. Floris and A. Padiglia, *The effect of proline and erythritol on the structural aspects of lentil seedling amino oxidase*, Fourth European symposium of the Protein Society, Institute Pasteur, Paris, France, 18-22 April, 2001 (Protein Science Vol.10, Suppl.1, page 60)

M.J. Morvarid and **M. Rezaei-Tavirani**. *Study of conformation changes in hemoglobin a using cationic and anionic surfactants*, 18<sup>th</sup> International Congress of Biochemistry and Molecular Biology, Birmingham, UK, July 16–20, 2000.

**M. Rezaei-Tavirani**, B. Ranjbar and A.A. Moosavi-Movahedi. *Time dependency of thermal denaturation for human apotransferrin*, Third European symposium of the Protein Society, Garmisch-Partenkirchen, Germany, 19-22 September, 1999 (Protein Science Vol.8, Suppl.2, page 60)

A.A. Moosavi-Movahedi, **M. Rezaei-Tavirani** and Z. Zaidi. *A novel and simple spectroscopic method for determination of protein transition states*, 38th Annual Meeting of Biophysical Society, New Orleans, Louisiana, USA, 6-10, 1994 (Biophysical Journal Vol.66, No2, page 394a.)

## **PUBLISHED ARTICLES**

**Fluoxetine Regulates Ig Kappa Chain C Region Expression Levels in the Serum of Obsessive-Compulsive Disorder Patients: A Proteomic Approach** Zamanian-zodi M., Rezaei-Tavirani M., (...), Vafae R., 2017 IJPR (In press)

**Identification of potential predictive markers of dexamethasone resistance in childhood acute lymphoblastic leukemia**, Dehghan-Nayeri N., Rezaei-Tavirani M., Omrani MD., Gharehbaghian A., ... 2017 Journal of cell communication and signaling 11 (2), 137-145

**Anti-acetylcholine esterase activity of aqueous extract of lavandula angustifolia and its toxicity effect on HepG2 cell line**, Soheili, M., Tavirani, M.R., Salami, M. 2017 Koomesh 19 (2), pp. 263-268

**Serum metabolic profiling of advanced cirrhosis based on HCV**, Safaei, A., Rezaei-Tavirani, M., Oskouie, A.A., (...), Shabani, M., Sharifian, A. 2017 Hepatitis Monthly 17 (3), e44431

**Proteomic analysis of the effect of extremely low-frequency electromagnetic fields (ELF-EMF) with different intensities in SH-SY5Y Neuroblastoma cell line**, Rezaie-Tavirani, M., Hasanzadeh, H., Seyyedi, S., Zali, H. 2017 Journal of Lasers in Medical Sciences 8 (2), pp. 79-83

**Introducing crucial protein panel of gastric adenocarcinoma disease**, Rezaei-Tavirani, M., Rezaei-Tavirani, M., Mansouri, V., (...), Rostami-Nejad, M., Zali, M.R. 2017 Gastroenterology and Hepatology from Bed to Bench 10 (1), pp. 21-28

**Fabrication of chitosan-nano hydroxyapatite scaffold for dental tissue engineering**, Shanhnavaei, M., Ketabi, M., Fekrazad, R., (...), Abolhasani, M.M., Rezaei-Tavirani, M. 2017 Key Engineering Materials 720, pp. 223-227

**Ethanol and cancer induce similar changes on protein expression pattern of human fibroblast cell**, Zamanian-Azodi, M., Rezaei-Tavirani, M., Rahmati-Rad, S., Tavirani, M.R. 2016 Iranian Journal of Pharmaceutical Research 15, pp. 175-184

**Purification and identification of CD146 positive endometrial somatic stem cell from human normal endometrium biopsy and gene expression criteria**, Heidari-Keshel, S., Rezaei-Tavirani, M., Ai, J., (...), Ghanbari, Z., Khoshzaban, A. 2016 Minerva Biotechnologica 28 (4), pp. 208-218

**Identification of potential predictive markers of dexamethasone resistance in childhood acute lymphoblastic leukemia**, Dehghan-Nayeri, N., Rezaei-Tavirani, M., Omrani, M.D., (...), Goudarzi Pour, K., Eshghi, P. 2016 Journal of Cell Communication and Signaling pp. 1-9

**Melatonin promotes ATO-induced apoptosis in MCF-7 cells: Proposing novel therapeutic potential for breast cancer**, Nooshinfar, E., Bashash, D., Safaroghli-Azar, A., (...), Ghaffari, S.H., Akbari, M.E. 2016 *Biomedicine and Pharmacotherapy* 83, pp. 456-465

**Pro-oxidant–antioxidant balance in Iranian veterans with sulfur mustard toxicity and different levels of pulmonary disorders**, Nobakht M. Gh, B.F., Oskouie, A.A., Aliannejad, R., (...), Keramati, M.R., Alamdari, D.H. 2016 *Drug and Chemical Toxicology* 39 (4), pp. 362-366

**Topological analysis of blood differentially expressed genes in protein-protein interaction network in type 1 diabetes**, Safari-Alighiarloo, N., Taghizadeh, M., Tabatabaei, S.M., (...), Rezaei-Tavirani, M., Rashidy-Pour, A. 2016 *Koomesh* 18 (1), pp. 86-94

**Protein-protein interaction network analysis of human fibroblast cells treated with ethanol**, Zamanian-Azodi, M., Rezaei-Tavirani, M., Peyvandi, M., (...), Okhovatian, F., Safakhah, H.A. 2016 *Koomesh* 18 (1), pp. 35-41

**NMR- and GC/MS-based metabolomics of sulfur mustard exposed individuals: a pilot study**, Nobakht, B.F., Aliannejad, R., Rezaei-Tavirani, M., (...), Fathi, F., Taheri, S. 2016 *Biomarkers* 21 (6), pp. 479-489

**NMR spectroscopy-based metabolomic study of serum in sulfur mustard exposed patients with lung disease**, Nobakht, B.F., Arefi Oskouie, A., Rezaei-Tavirani, M., (...), Fathi, F., Taghi Naseri, M. 2016 *Biomarkers* pp. 1-7

**Common behaviors alterations after extremely low-frequency electromagnetic field exposure in rat animal model**, Mahdavi, S.M., Sahraei, H., Rezaei-Tavirani, M., 2016 *Electromagnetic Biology and Medicine* 35 (3), pp. 222-227

**Nuclear magnetic resonance -based metabolomics analysis of patients exposed to sulfur mustard in different stages using random forest method**, Nobakht M. Gh., B.F., Aliannejad, R., Oskouie, A.A., (...), Sahakhah, H.A., Rezaei-Tavirani, M. 2016 *Koomesh* 17 (3), pp. 701-706

**Factors that affecting survival of patients with acute myeloid leukemia**, Baghban, A.A., Hosseini-fard, H., Baghestani, A.R., (...), Tavirani, M.R., Kokhaei, P. 2016 *Koomesh* 17 (3), pp. 596-602

**Effects of saffron (*Crocus sativus* L.) stigma extract and its active constituent crocin on neuropathic pain responses in a rat model of chronic constriction injury**, Safakhah, H.A., Taghavi, T., Rashidy-Pour, A., (...), Mohebbi, N., Rezaei-Tavirani, M. 2016 *Iranian Journal of Pharmaceutical Research* 15 (1), pp. 253-261

**Protein clustering and interactome analysis in Parkinson and Alzheimer’s diseases**, Rezaei-Tavirani, M., Zamanian-Azodi, M., Rajabi, S., (...), Rostami-Nejad, M., Rahmatirad, S. 2016 *Archives of Iranian Medicine* 19 (2), pp. 101-109

**Prevalence of Sinusitis in Iran: A systematic review and meta-analysis study**, Andy, S.A.A., Sarookhani, D., Tavirany, M.R. 2016 *Der Pharmacia Lettre* 8 (6), pp. 14-22

**Prevalence of Sinusitis in Iran: A systematic review and meta-analysis study**, Andy, S.A.A., Sarookhani, D., Tavirany, M.R. 2016 *Der Pharmacia Lettre* 8 (5), pp. 31-39

**Network-based analysis of differentially expressed genes in cerebrospinal fluid (CSF) and blood reveals new candidate genes for multiple sclerosis**, Safari-Alighiarloo, N., Rezaei-Tavirani, M., Taghizadeh, M., Tabatabaei, S.M., Namaki, S. 2016 *PeerJ* 2016 (12), e2775

**Identification of new key genes for type 1 diabetes through construction and analysis of protein-protein interaction networks based on blood and pancreatic islet transcriptomes**, Safari-Alighiarloo, N., Taghizadeh, M., Tabatabaei, S.M., (...), Khodakarim, S., Rezaei-Tavirani, M. 2016 *Journal of Diabetes*

**Effects of Migrheal® on plasma proteome of patients with migraine headaches**, Masti, S.M., Ansari, M., Tavirani, M.R., (...), Zali, H., Rafiee, M.H. 2016 *Journal of Reports in Pharmaceutical Sciences* 5 (1), pp. 53-60

**Protein-protein interaction network analysis of cirrhosis liver disease**, Safaei, A., Tavirani, M.R., Oskouei, A.A., (...), Mohebbi, S.R., Nikzamid, A.R. 2016 *Gastroenterology and Hepatology from Bed to Bench* 9 (2), pp. 114-123

**Effects of 3 Hz and 60 Hz extremely low frequency electromagnetic fields on anxiety-like behaviors, memory retention of passive avoidance and electrophysiological properties of male rats**, Rostami, A., Shahani, M., Zarrindast, M.R., (...), Tavirani, M.R., Hasanzadeh, H. 2016 *Journal of Lasers in Medical Sciences* 7 (2), pp. 120-125

**Metabolomic analysis of human cirrhosis, hepatocellular carcinoma, non-alcoholic fatty liver disease and non-alcoholic steatohepatitis diseases**, Safaei, A., Oskouei, A.A., Mohebbi, S.R., (...), Okhovatian, F., Zamanian-Azodi, M. 2016 *Gastroenterology and Hepatology from Bed to Bench* 9 (3), pp. 158-173

**Apoptosis/necrosis induction by ultraviolet, in ER positive and ER negative breast cancer cell lines**, Barough, M.S., Hasanzadeh, H., Barati, M., (...), Kokhaei, P., Rezaei-Tavirani, M. 2015 *Iranian Journal of Cancer Prevention* 8 (6), e4193

**Lavandula angustifolia extract improves deteriorated synaptic plasticity in an animal model of Alzheimer's disease**, Soheili, M., Tavirani, M.R., Salami, M. *Iranian Journal of Basic Medical Sciences* 18 (11), pp. 1147-1152

**Proteomics study of extremely low frequency electromagnetic field (50 Hz) on human neuroblastoma cells**, Hasanzadeh, H., Rezaie-Tavirani, M., Seyyedi, S., Emadi, A. 2015 *Koomesh* 17 (1), pp. 233-238

**High-dose-rate <sup>192</sup>Ir brachytherapy dose verification: A phantom study**, Nikoofar, A., Hoseinpour, Z., Mahdavi, S.R., Hasanzadeh, H., Tavirani, M.R. 2015 Iranian Journal of Cancer Prevention 8 (3), e2330

**Bone reconstruction in rat calvarial defects by chitosan/hydroxyapatite nanoparticles scaffold loaded with unrestricted somatic stem cells**, Biazar, E., Heidari Keshel, S., Tavirani, M.R., Jahandideh, R. 2015 Artificial Cells, Nanomedicine and Biotechnology 43 (2), pp. 112-116

**Tissue-specific somatic stem-cell isolation and characterization from human endometriosis. Key roles in the initiation of endometrial proliferative disorders**, Heidari-Keshel, S., Rezaei-Tavirani, M., Ai, J., (...), Omid, R., Ghanbari, Z. 2015 Minerva Medica 106 (2), pp. 95-108

**Protein drug targets of Lavandula angustifolia on treatment of rat Alzheimer's disease**, Zali, H., Zamanian-Azodi, M., Tavirani, M.R., Baghban, A.A.-Z. 2015 Iranian Journal of Pharmaceutical Research 14 (1), pp. 291-302

**The metabolomics of airway diseases, including COPD, asthma and cystic fibrosis**, Nobakht M Gh, B.F., Aliannejad, R., Rezaei-Tavirani, M., Taheri, S., Oskouie, A.A. 2015 Biomarkers 20 (1), pp. 5-16

**Diagnostic urinary proteome profile for immunoglobulin a nephropathy**, Samavat, S., Kalantari, S., Nafar, M., (...), Parvin, M., Zubarev, R.A. 2015 Iranian Journal of Kidney Diseases 9 (3), pp. 239-248

**Pathophysiology, genetics, types, and treatments in obsessive compulsive disorder**, Zamanian-Azodi, M., Rezaei-Tavirani, M., Kermani-Ranjbar, T., (...), Rahmatirad, S., Asl, N.S. 2015 Koomesh 16 (4), pp. 475-487

**Introducing biomarker panel in esophageal, gastric, and colon cancers; a proteomic approach**, Zamanian-Azodi, M., Rezaei-Tavirani, M., Hasanzadeh, H., (...), Gilanchi, S., Manzour, H. 2015 Gastroenterology and Hepatology from Bed to Bench 8 (1), pp. 6-18

**Biclustering algorithm in gene expression data: A review article**, Majd, H.A., Baghestani, A.R., Tabatabaei, S.M., (...), Tavirani, M.R., Hamidpour, M. 2015 Genetics in the Third Millennium 12 (4), pp. 3864-3871

**Protein-protein interaction network could reveal the relationship between the breast and colon cancer**, Zamanian-Azodi, M., Rezaei-Tavirani, M., Rahmati-Rad, S., (...), Tavirani, M.R., Seyyedi, S.S. 2015 Gastroenterology and Hepatology from Bed to Bench 8 (3), pp. 215-224

**Proteomic study in the rat hippocampus as a measure of human alzheimer's disease**, Ghamari, E., Zali, H., Tavirani, M.R., (...), Zamaheni, S., Rashidy-Pour, A. 2015 Koomesh 16 (4), pp. 611-620

**Evaluation of organs at risk's dose in external radiotherapy of brain tumors**, Nazemi-Gelyan, H., Hasanzadeh, H., Makhdumi, Y., (...), Nikoofar, A., Rezaei-Tavirani, M. 2015 Iranian Journal of Cancer Prevention 8 (1), pp. 47-52

**Predictive urinary biomarkers for steroid-resistant and steroid-sensitive focal segmental glomerulosclerosis using high resolution mass spectrometry and multivariate statistical analysis**, Kalantari, S., Nafar, M., Rutishauser, D., (...), Yang, H., Zubarev, R.A. 2014 BMC Nephrology 15 (1), 141

**Assessment of gene set analysis methods based on microarray data**, Alavi-Majd, H., Khodakarim, S., Zayeri, F., (...), Tabatabaei, S.M., Heydarpour-Meymeh, M. 2014 Gene 534 (2), pp. 383-389

**Protein-protein interaction networks (PPI) and complex diseases**, Safari-Alighiarloo, N., Taghizadeh, M., Rezaei-Tavirani, M., Goliaei, B., Peyvandi, A.A. 2014 Gastroenterology and Hepatology from Bed to Bench 7 (1), pp. 17-31

**Meningioma protein-protein interaction network**, Zali, H., Tavirani, M.R. 2014 Archives of Iranian Medicine 17 (4), pp. 262-272

**Regeneration of full-thickness skin defects using umbilical cord blood stem cells loaded into modified porous scaffolds**, Zeinali, R., Biazar, E., Keshel, S.H., Tavirani, M.R., Asadipour, K. 2014 ASAIO Journal 60 (1), pp. 106-114

**Aqueous extract of Lavandula angustifolia alter protein expression in alzheimer rats**, Soheili, M., Salami, M., Haghiri, A., Zali, H., Tavirani, M.R. 2014 Journal of Reports in Pharmaceutical Sciences 3 (1), pp. 1-9

**The novel diagnostic biomarkers for focal segmental glomerulosclerosis**, Nafar, M., Kalantari, S., Samavat, S., (...), Rutishauser, D., Zubarev, R.A. 2014 International Journal of Nephrology 2014, 574261

**Urinary prognostic biomarkers in patients with focal segmental glomerulosclerosis**, Kalantari, S., Nafar, M., Samavat, S., (...), Rutishauser, D., Zubarev, R. 2014 Nephro-Urology Monthly 6 (2), e16806

**Antifungal effect of colloidal Iron Oxide Nano-particles on the Candida albicans**, Momenzadeh, D., Tavirani, M.R., Heidari-Keshel, S., (...), Ai, A., Zadeh, S.R. 2014 Journal of Pure and Applied Microbiology 8 (3), pp. 2003-2010

**Effect of ELF-EMF exposure on human neuroblastoma cell line: A proteomics analysis**, Hasanzadeh, H., Rezaei-Tavirani, M., Seyyedi, S.S., (...), Jadidi, M., Abedelahi, A. 2014 Iranian Journal of Cancer prevention 7 (1), pp. 22-27



**The healing effect of unrestricted somatic stem cells loaded in collagen-modified nanofibrous PHBV scaffold on full-thickness skin defects**, Keshel, S.H., Biazar, E., Rezaei Tavirani, M., (...), Rakhshan, A., Afsordeh, K. 2014 *Artificial Cells, Nanomedicine and Biotechnology* 42 (3), pp. 210-216

**Proteomics and traditional medicine: New aspect in explanation of temperaments**, Jafari, M., Rezaeidoost, H., Karimi, M., (...), Gilany, K., Ghassempour, A. 2014 *Forschende Komplementarmedizin* 21 (4), pp. 250-253

**Cluster and principal component analysis of human glioblastoma multiforme (gbm) tumor proteome**, Pooladi, M., Rezaei-Tavirani, M., Hashemi, M., (...), Rakhshan, A., Azodi, M.Z. 2014 *Iranian Journal of Cancer Prevention* 7 (2), pp. 87-95

**<sup>1</sup>H NMR based metabolic profiling in Crohn's disease by random forest methodology**, Fathi, F., Majari-Kasmaee, L., Mani-Varnosfaderani, A., (...), Tafazzoli, M., Arefi-Oskouie, A. 2014 *Magnetic Resonance in Chemistry* 52 (7), pp. 370-376

**The study of "dihydropyrimidinase related proteins (DRPs)" expression changes influence in malignant astrocytoma brain tumor**, Pooladi, M., Rezaei-Tavirani, M., Hashemi, M., (...), Firozi-Dalvand, L., Omid, R. 2014 *Iranian Journal of Cancer Prevention* 7 (3), pp. 130-136

**Gastric cardia adenocarcinoma pathway analysis**, Zali, H., Rezaei-Tavirani, M., Vafaei, R., Rezaei-Tavirani, M. 2013 *Gastroenterology and Hepatology from Bed to Bench* 6 (SUPPL.), pp. S11-S18

**Functionalization of MWNT-COOH by one-step reaction with (3-oxoindolin-2-ylidene) urea and in vitro antitumor study on gastric cancer**, Heidari-Keshel, S., Entezari, M., Rezaei-Tavirani, M., Ebrahimi, M., Rezaei-Tavirani, M. 2013 *Gastroenterology and Hepatology from Bed to Bench* 6 (SUPPL.), pp. S39-S44

**Urinary prognostic biomarkers and classification of IgA nephropathy by high resolution mass spectrometry coupled with liquid chromatography**, Kalantari, S., Rutishauser, D., Samavat, S., (...), Rezaei-Tavirani, M., Zubarev, R.A. 2013 *PLoS ONE* 8 (12), e80830

**The association between polymorphisms in insulin and obesity related genes and risk of colorectal cancer**, Rezaei-Tavirani, M., Safaei, A., Zali, M.R. 2013 *Iranian Journal of Cancer Prevention* 6 (4), pp. 179-185

**Aqueous extract of lavender *Angustifolia* inhibits lymphocytes proliferation of Hodgkin's lymphoma patients**, Dalilan, S., Rezaei-Tavirani, M., Nabiuni, M., (...), Zamanian Azodi, M., Zali, H. 2013 *Iranian Journal of Cancer Prevention* 6 (4), pp. 201-208

**Bone formation in calvarial defects by injectable nanoparticulate scaffold loaded with stem cells**, Biazar, E., Heidari Keshel, S., Rezaei Tavirani, M., Jahandideh, R. 2013 Expert Opinion on Biological Therapy 13 (12), pp. 1653-1662

**Effect of  $\pm 5^{\circ}\text{C}$  difference from physiologic temperature on surface area, volume, and surface-to-volume ratio of transformed cells**, Rezaei-Tavirani, M., Kalantari, S., Hessami Tackallou, S., Rastmanesh, R. 2013 Iranian Journal of Science and Technology, Transaction A: Science 37 (2), pp. 161-164

**Evolutionarily conserved motifs and modules in mitochondrial protein-protein interaction networks**, Jafari, M., Sadeghi, M., Mirzaie, M., Marashi, S.-A., Rezaei-Tavirani, M. 2013 Mitochondrion 13 (6), pp. 668-675

**NMR based metabolomics study on celiac disease in the blood serum**, Fathi, F., Ektefa, F., Arefi Oskouie, A., (...), Tafazzoli, M., Rostami Nejad, M. 2013 Gastroenterology and Hepatology from Bed to Bench 6 (4), pp. 190-194

**Fertility preservation among the cancer patients by ovarian tissue cryopreservation, transplantation, and follicular development**, Abedelahi, A., Rezaei-Tavirani, M., Mohammadnejad, D. 2013 Iranian Journal of Cancer Prevention 6 (3), pp. 123-132

**Her2/neu expression in Wilms' tumor and correlation with histopathologic findings**, Babashahi, M., Mehrazma, M., Nasiri, S.J., Azizi Jalilian, F., Rezaei-Tavirani, M. 2013 Iranian Journal of Cancer Prevention 6 (3), pp. 160-164

**Production and utilization of monoclonal antibodies against Brucella Melitensis Rev1 surface antigens in brucellosis diseases**, Bayat, N., Heidari-keshel, S., Rezaei-Tavirani, M., Ebrahimi, M., Behrouzi, G.R. 2013 Journal of Pure and Applied Microbiology 7 (3), pp. 2123-2127

**Targeting of the signal transducer Smo links microRNA-326 to the oncogenic Hedgehog pathway in CD34<sup>+</sup> CML stem/progenitor cells**, Babashah, S., Sadeghizadeh, M., Hajifathali, A., (...), Ghadiani, M., Soleimani, M. 2013 International Journal of Cancer 133 (3), pp. 579-589

**Exploring biological processes involved in embryonic stem cell differentiation by analyzing proteomic data**, Jafari, M., Mirzaie, M., Sadeghi, M., Marashi, S.-A., Rezaei-Tavirani, M. 2013 Biochimica et Biophysica Acta - Proteins and Proteomics 1834 (6), pp. 1063-1069

**The concentration of serum zinc in celiac patients compared to healthy subjects in tehran**, Fathi, F., Ektefa, F., Tafazzoli, M., (...), Oskouie, A.A., Zali, M.R. 2013 Gastroenterology and Hepatology from Bed to Bench 6 (2), pp. 92-95

**Breast cancer biomarker discovery: Proteomics and genomics approaches**, Safaei, A., Tavirani, M.R., Sobhi, S., Akbari, M.E. 2013 Iranian Journal of Cancer Prevention 6 (SUPPL.1)

**Genomic and epigenetic instability in colorectal cancer**, Safaei, A., Sobhi, S., Rezaei-Tavirani, M., Zali, M.R. 2013 Iranian Journal of Cancer Prevention 6 (SUPPL.1)

**Cell survival entropy and cellular resistance activation dose: Effect of calprotectin on gastric adenocarcinoma cell line**, Tavirani, M.R., Roodsari, M.R., Mirzaie, M., Geram, P.A., Sobhi, S. 2013 Iranian Journal of Cancer Prevention 6 (SUPPL.1)

**TiO<sub>2</sub> Nanoparticle as a Sensitizer Drug in Radiotherapy: In Vitro Study**, Rezaei-Tavirany, M., Dolat, E., Hasanzadeh, H., (...), Semnani, V., Sobhi, S. 2013 Iranian Journal of Cancer Prevention 6 (SUPPL.1)

**Flow cytometry analysis of rosa damascena effects on gastric cancer cell line (MKN45)**, Khatib, H., Rezaei-Tavirani, M., Keshel, S.H., (...), Biglarian, M., Sobhi, S. 2013 Iranian Journal of Cancer Prevention 6 (SUPPL.1)

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### **WORKS IN PROGRESS**

- 1: Production of stem cell free artificial skin (clinical trial phase).
- 2: Molecular mapping of Obsessive compulsive disorder.