



## CURRICULUM VITAE

### **Jalil Tavakkoli Afshari, M.Sc., Ph.D., MT(ASCP), CLS(NCA)**

Professor, Allergy and Immunology Dept.

Medical School,

Director, Immunogenetic & Tissue Culture section, Immunology Research group

Bu Ali Research Institute

Mashhad University of Medical Sciences (MUMS)

R.C.Bu-Ali – Bu-Ali sq.

Mashhad - IRAN

Tel:+98 3511 7112471

Fax:+98 3511 7112596

E-mail: [tavakolaj@mums.ac.ir](mailto:tavakolaj@mums.ac.ir)

## EDUCATION:

University of Manchester, Manchester, U.K.

Ph.D., Cellular and Molecular Immunology. 1995.

Thesis topic: Analysis of T cell antigen receptor V $\beta$ -chain gene repertoires in allo-reactive T lymphocytes.

Greater Bakersfield Memorial Hospital, Bakersfield, CA., USA.

Internship program in Clinical Pathology. 1988.

University of California, San Francisco, CA., USA.

M.Sc., Clinical Laboratory Science. 1986.

Thesis topic: Development of a rapid spectrophotometer screening method for quantitation of acetaminophen in human serum.

California State University Bakersfield, Bakersfield, CA., USA.

B.Sc. Health Sciences-Clinical Laboratory Technology. 1985.

B.Sc. Biology. 1984.

## APPOINTMENTS AND PROFESSIONAL ACTIVITIES:

1995- Present. **Professor**, Allergy and Immunology Dept., Medical School, Mashhad Univ. of Medical Sciences (MUMS), Mashhad, IRAN.

**Director**, Immunogenetics & Tissue Culture Dept., Bu-Ali Research Institute. Mashhad Univ. of Medical Sciences (MUMS). Mashhad, IRAN.

2011-2014 **Vice Chancellor for Education**, Mashhad Univ. of Medical Sciences (MUMS). Mashhad, IRAN.

2006- 2011 **Vice Chancellor for Research**, Mashhad Univ. of Medical Sciences (MUMS). Mashhad, IRAN.

2000-2004 **Director**, Clinical Immunology Laboratory, Ghaem Medical Center, Mashhad Univ. of Medical Sciences (MUMS), Mashhad, IRAN.

1998-2005 **Post-graduate education coordinator**, Allergy and Immunology Dept., Medical School, Mashhad Univ. of Medical Sciences (MUMS), Mashhad, IRAN.

**Member**, University research council, Mashhad Univ. of Medical Sciences (MUMS), Mashhad, IRAN.

**Member**, Postgraduate council, Medical school, Mashhad Univ. of Medical Sciences(MUMS), Mashhad, IRAN.

**Member**, research council, Bu-Ali Research Institute, Mashhad Univ. of Medical Sciences. Mashhad (MUMS), IRAN.

1992 - 1995 **Research Assistant/Ph.D. student**, Immunology Research Group, School of Medicine, University of Manchester, Manchester, U.K.

1986 - 1987 **Research Associate**, R&D Dept, MAST Immunosystems Inc., Mountain View, CA., USA. 94043.

1985 - 1986 **Bench Medical Technologist**, Pathology Laboratory, Los Gatos, CA., USA. 95030.

#### **HONORS AND AWARDS:**

1991-1992 Scholarship award for higher education by the Ministry of Health and Medical Education of Iran.

1992-1995 Overseas Research Students Grant (ORS), United Kingdom higher education council, London, UK.

1993 Travel Grant for Annual Congress of Immunology, Harrogate, UK.

2005 The best researcher of the year. Mashhad Univ. of Medical Sci. Mashhad, Iran.

**RESEARCH EXPERIENCE:**

Stem cell therapy.

Autoimmune diseases, RA, SLE.

HTLV-I and Cellular Immune Response.

Tissue Culture using variety of mammalian cell line. Hybridoma production, establishment of cell lines, and clones.

Development of ELIZA for cytokines using recombinant cytokines.

DNA cloning and expression in mammalian and prokaryotic vectors.

DNA sequencing.

RT-PCR, PCR-SSP, PCR-RFLP and PCR-SSOP, ARMS-PCR.

Purification and analysis of Proteins. Affinity chromatography, Ion-exchange, and electrophoresis methods chromatography.

Cell proliferation analysis; MTT assay and <sup>3</sup>[H]-thymidine uptake assay.

Cytotoxicity analysis; <sup>51</sup>Cr release assay.

HLA Typing. Microcytotoxicity and molecular methods.

Cytokines profile and polymorphisms analysis in autoimmune diseases; RA, SLE,....

**RESEARCH INTERESTS:**

Current research interests include stem cell therapy for autoimmune diseases (e.g. M.S.), immune response against HTLVVI, cellular and molecular biology of cytokines as signaling molecules with a pivotal role in cell-cell interactions, mediator of inflammatory diseases such as rheumatoid arthritis, allergic diseases and understanding their mechanism of action is providing novel strategies for use in the development of anti-inflammatory drugs. Polymorphism within cytokine, cytokine receptor, and receptor antagonist genes has been identified in a growing number of cases but in most instances, few if any systematic polymorphism studies have been

reported. In my laboratory we are investigating the Cytokine Polymorphism and study the genomic variability that characterizes genes encoding certain cytokine molecules. Other research interest involves study of anti-proliferative effect of herbal and natural products against tumor cell lines in vitro.

**LICENSURE:**

American Society of Clinical Pathologist (ASCP). License # 163309.

California Medical Technology. License # 33256.

National Certification Agency-Clinical Laboratory Scientist. license # 0926269.

**PROFESSIONAL SOCIETIES:**

**British Society for Immunology (BSI).**

British Transplantation Society (BTS).

Fellow member for American Society of Clinical Pathologist (ASCP).

California Society of Medical Technologist.

Iranian Society for Allergy and Immunology

Iranian Society for Biotechnology

**PUBLICATION:**

## Peer reviewed Journals

Ali Talaei, **Jalil Tavakkol Afshari**, Mohammad Reza Fayyazi Bordbar, Hamidreza Pouryousof, Farhad Faridhosseini, Ali Saghebi, Amir Rezaei Ardani, Andisheh Talaei, Mohsen Tehrani. A Study on the Association of Interleukin-1 Cluster with Genetic Risk in Bipolar I Disorder in Iranian Patients: A Case-control Study Iranian Journal of Allergy, Asthma and Immunology, **2016**. 15(6):466-475.

**Jalil Tavakkol Afshari**, Mahdi Yousefi, Roshanak Salari. Atopic dermatitis and the therapeutic methods: a literature review. Review in Clinical Medicine. Article 5, Volume 3, Issue 4, Autumn **2016**, Page 158-162.

Elham Masoumi, **Jalil Tavakko-Afshari**, Amin Reza Nikpoor, Haniyeh Ghaffari-Nazari, Sahar Tahaghoghi-Hajghorbani and Seyed Amir Jalili. Relationship between Fas and Fas Ligand gene polymorphisms and pre-eclampsia. Obstetrics and Gynaecology Research. Volume 42, Issue 10, Pages 1272–1278, **2016**.

Zhaleh Shariati Sarabi, **Jalil Tavakkol Afshari**, Ali Ghassemi, Mehdi Yaghobi<sup>4</sup> Mesenchymal stem cell and osteoarthritis: a literature review. Review in Clinical Medicine. Article 10, Volume 3, Issue 2, Spring **2016**, Page 84-86.

Fatemeh Homaei-Shandiz<sup>1</sup>, Hassan Mehrad-Majd, Mojtaba Tasbandi, Amir Aledavood, **Jalil Tavakkol Afshari**, Vahid Ghavami, Majid Ghayour-Mobarhan. Anti-Heat Shock Protein-27 Antibody Levels in Women with Breast Cancer: Association with Disease Complications and Two-Year Disease-Free Survival. Asian Pacific Journal of Cancer Prevention, **2016**.17.10.4655.

Amin Reza Nikpoor, **Jalil Tavakkol-Afshari**, Zahra Gholizadeh, Kayvan Sadri, Mohammad Hossein Babaei, Jamshidkhan Chamani, Ali Badiiee, Seyed Amir Jalali, Mahmoud Reza Jaafari. Nanoliposome-mediated targeting of antibodies to tumors: IVIG antibodies as a model. Int J Pharm 2015 Aug 21. Epub **2015** Aug 21.

Zahra Mohammadi, **Jalil Tavakkol Afshari**, Mohammad Reza Keramati, Daryoush Hamidi Alamdari, Meysam Ganjibakhsh, Azam Moradi Zarmehri, Ali Jangjoo, Mohammad Hadi Sadeghian, Masoumeh Arab Ameri, Leila Moinzadeh. Differentiation of adipocytes and osteocytes from human adipose and placental mesenchymal stem cells. Iranian J of Basic Medical Sciences, Vol. 18, No.3, **2015**.

Arezoo Jahanbin, Mostafa Shahabi, Farzaneh Ahrari, Yasaman Bozorgnia, Arezoo Shajiei, Hooman Shafaei and **Jalil Tavakkol Afshari**. Evaluation of the cytotoxicity of fiber reinforced composite bonded retainers and flexible spiral wires retainers in simulated high and low cariogenic environments. J Orthod Sci., 4(1):13-8, **2015**.

Elias Orouji, **Jalil Tavakkol Afshari**, Astrid Schmieder, Pouran Layegh. HLA-DQB1 gene and pemphigus vulgaris in patients with Mid-East origin. J Dermatol Sci 2014 Nov 27;76(2):153-5. Epub **2014** Aug 27.

Ahmad Reza Taheri, Vahid Mashayekhi Goyonlo, Yalda Nahidi, Nasrin Moheghi and **Jalil Tavakkol Afshari**. Plasma levels of interleukin-4 and Interferon- $\gamma$  in patients with chronic or healed cutaneous leishmaniasis. *Iran J Basic Med Sci.*, Mar;17(3):216-9, **2014**.

Amir Reza Tafreshian, Mehdi Etemadi, Reza Fari-Hosseini, Mansoor Salhi and **Jalil Tavakkol Afshari**. Association between HLA-DQB1 alleles and Ham/TSP patients in Khorasan Province. *Iran J Basic Med Sci*, Vol 17, No 10, 798-801, **2014**.

Mosa-Al-Reza Hadizadeh, Habib Ghanbari, Zakieh Keshavarzi, and **Jalil Tavakol-Afshari**. The effects of aqueous extract of *Alpinia Galangal* on Gastric cancer cells (AGS) and L9292 cells in vitro. *Iran J Cancer Prev.* 7(3): 142-146. **2014**.

Bahare Fazeli, Houshang Rafatpanah, Hassan Ravari, Reza Farid Hosseini, **Jalil Tavakol Afshari**, Dariush Hamidi alamdari, Narges Valizadeh, Nasrin Moheghi, S. A. Rahim Rezaee. Sera of patients with thromboangiitis obliterans activated cultured human umbilical vein endothelial cells (HUVECs) and changed their adhesive properties. *International Journal of Rheumatic Disease*, Volume 17, Issue 1, January **2014**, pages 106–112.

Mohammad Naderi; Hanieh Yaghootkar; Fatemeh Tara; **Jalil Tavakkol Afshari**; Reza Farid Hosseini; Majid Ghayour Mobarhan; Abbas Shapouri Moghadam; Masoumeh Mirteimouri; Seyedeh Maryam Tara. Tumor Necrosis Factor-Alpha Polymorphism at Position -238 in Preeclampsia. *Iran Red Cres Med J.* 2014 January; 16(1): e11195. Published online **2014** January 5.

Hassan Boskabadi; Gholamali Maamouri; **Jalil Tavakol Afshari**; Shahin Mafinejad; Golkoo Hosseini; Hesam Mostafavi-Toroghi; HamidReza saber; Majid Ghayour-Mobarhan and Gordon ferns. Evaluation of Serum Interleukins-6, 8 and 10 levels as Diagnostic Markers of Neonatal infection and Possibility of Mortality. *Iranian J. Basic Medical Sciences.* Article 4, Volume 16, Issue 12, December 2013, page 1232-1237.

Atieh Mehdizadeh Hakkak, Mohammad Keramatipour, Saeid Talebi, Azam Brook, **Jalil Tavakol Afshari**, Amin Raazi, and Hamid Reza Kianifar. Analysis of CFTR Gene Mutations in Children with Cystic Fibrosis, First Report from North-East of Iran. *Iran J Basic Med Sci.* 2013 August; 16(8): 917–921.

Saeed Samarghandian, **Jalil Tavakkol Afshari** and Hossein Shidaee. Diet Strategies for Prostate Cancer Control. *Journal of Medicinal Plants Research.* 2013, 7(40), 2940-2951.

Ahmad Reza Ebadian, Mehrdad Radvar, **Jalil Tavakkol Afshari**, Naser Sargolzaee, Azam Brook, Rashiin Ganjali, Mahmood Tamizi, Hamid Reza Arab. Gene Polymorphisms of TNF- $\alpha$  and IL-1 $\beta$  Are Not Associated with Generalized Aggressive Periodontitis in an Iranian Subpopulation. *Iranian Journal of Allergy, Asthma and Immunology.* 2013, 12(4):345-351.

Obeid M. Malekshah, Hermann lage, Ahmad Reza Bahrami, **Jalil Tavakol Afshari** and Javad Behravan. PXR and NF- $\kappa$ B correlate with the inducing effects of IL-1 $\beta$  and TNF- $\alpha$  on ABCG2 expression in breast cancer cell lines. *European Journal of Pharmaceutical Sciences*. 2012, Volume 47, Issue 2, 29 September, Pages 474–480.

Reza Entezari Heravi, Farzin Hadizadeh, Mojtaba Sankian, **Jalil Tavakol Afshari** and Javad Behravan. Cyclooxygenase-2 inhibition by novel Bisaryl imidazolyl imidazole derivatives increases *Bax/Bcl-2* ratio and upregulates *Caspase-3* gene expression in Caco-2 colorectal cancer cell line. *Genes & Genomics* (2012) 34: 199-204.

Elias Orouji, **Jalil Tavakkol Afshari**, Zagra Badiie, Abbas Shirdel and Afrouz alipour. Association between HLA-DQB1 gene and patients with acute lymphoblastic leukemia (ALL). *Int. J. Hematology*. 2012, 95:5, 551-555.

Behnaz Esmaeili, Seyed Abdol Rahim Rezaee, Pouran Layegh, **Jalil Tavakkol Afshari**, Phil Dye, Ehsan Ghayoor Karimiani, Fatemeh Kalalinia, and Houshang Rafatpanah. Expression of IL-17 and COX2 Gene in Peripheral Blood Leukocytes of Vitiligo Patients. *Iran J Allergy Asthma Immunol*. June 2011; 10(2): 81-89.

F Mosaffa, F kalalinia, H lage, **J Tavakol Afshari** and J Behravan. Pro-inflammatory cytokines interleukin-1 beta, interleukin 6, and tumor necrosis factor-alpha alter the expression and function of ABCG2 in cervix and gastric cancer cells. *Molecular and Cellular Biochemistry*. Published online: 23 Dec. 2011.

Z Rezaieyazdi, M Sahebari, MR Hatef, B Abbasi, H Rafatpanah, **J Tavakol Afshari**, H Esmaily. Is there any correlation between high sensitive CRP and disease activity in systemic lupus erythematosus? *Lupus*, 2011. Oct 12.

Mahnaz Abbasi, Zahra Rezaieyazdi, **Jalil Tavakol Afshari**, Mohammadreza Hatef, Maryam Sahebari. Vitamin D Receptor (VDR) Gene BsmI Polymorphisms in Lupus Nephritis. *J. of Isfahan Medical School*. Vol 28, No. 119; 2011.

Behnaz Esmaeili, Seyed Abdol Rahim Rezaee, Pouran Layegh, **Jalil Tavakkol Afshari**, Phil Dye, Ehsan Ghayoor Karimiani, Fatemeh Kalalinia and Houshang Rafatpanah. Expression of IL-17 and COX2 Gene in Peripheral Blood Leukocytes of Vitiligo Patients. *Iranian Journal of Allergy, Asthma and Immunology*. 2011; 10(2): 81-89.

Jalali SA, Sankian M, **Tavakkol-Afshari J**, Jaafari MR. Induction of tumor-specific immunity by multi-epitope rat HER2/neu-derived peptides encapsulated in LPD Nanoparticles. *Nanomedicine*. 2011 Oct 22.

**Tavakkol Afshari, J.**, Taghavi, SM., Fatemi, SS., Rafatpanah, H., Gheybi, F. and Nezamdoost, N. TAP2 polymorphisms in Iranian patients with type I Diabetes Mellitus. *International J. Genetics and Mol. Biol*. Vol. 3(8), pp. 115-119, Sept. 2011.

Reza Entezari Heravi, Farzin Hadizadeh, Mojtaba Sankian, **Jalil Tavakol Afshari**,

Seyed Mohammad Taghdisi, Hanieh Jafaria and Javad Behravan. Novel selective Cox-2 inhibitors induce apoptosis in Caco-2 colorectal carcinoma cell line. *European J Pharmaceutical Sci.* 17 September 2011.

Zahra Mohammadnejad, Mohsen Ghanbari, Rashin Ganjali, **Jalil Tavakkol Afshari** Mahyar Heydarpour, Seyed Morteza Taghavi, Sedigheh Fatemi, and Houshang Rafatpanah. Association between vitamin D receptor gene polymorphisms and type 1 diabetes mellitus in Iranian population. *Mol Biol Rep.* Published online: 17 May 2011.

Obeid M. Malekshah, Ahmad Reza Bahrami, **Jalil Tavakol Afshari**, Fatemeh Mosaffa and Javad Behravan. Correlation Between *PXR* and *ABCG2* Patterns of mRNA Expression in a MCF7 Breast Carcinoma Cell Derivative upon Induction by Proinflammatory Cytokines. *DNA and Cell Biology.* January 2011, 30(1): 25-31.

Sedighy S , Sadani S , Rezaii Yazdi Z , Hatf MR , **Tavakoli Afshar J** , Azarpazhoh MR et al. et al. Homocysteine and high sensitivity C –reactive protein in patients with systemic lupus erythematosus, and their relation with diseases activity and cardiovascular risk factors *Journal of Gorgan University of Medical Sciences*, 2011; 13 (1) :44-50

Maryam Bidar, Mohammad Hasan Zarrabi, **Jalil Tavakol Afshari**, Navid Aghasizadeh, Neda Naghavi, Maryam Forghanirad, and Niloufar Attaran. Osteoblastic cytokine response to gray and white mineral trioxide aggregate. *IEJ Iranian Endodontic Journal* 2011; 6(3):111-115

Behnaz Esmaeili, Seyed Abdol Rahim Rezaee, Poursan Layegh, **Jalil Tavakkol Afshari**, Phil Dye, Ehsan Ghayoor Karimiani, Fatemeh Kalalinia and Houshang Rafatpanah. Expression of IL-17 and COX2 Gene in Peripheral Blood Leukocytes of Vitiligo Patients. *Iran J Allergy Asthma Immunol.* June 2011; 10(2): 81-89.

Parizadeh, MR., Ghafoori Gharib, F., Abbaspor, AR., **Tavakol Afshari, J.** and Ghayour-Mobahan, M. Effects of aqueous saffron extract on nitric oxide production by two human carcinoma cell lines: Hepatocellular carcinoma (HepG2) and laryngeal carcinoma (Hep2). *Avicenna Journal of Phytomedicine.* 2011:Vol 1, No1, 43-50.

Samarghandian, S., **Tavakkol Afshari, J.**, and Davoodi, S. Chrysin reduces proliferation and induces apoptosis in the human prostate cancer cell line pc-3. *Clinics.* 2011; 66(6):1-7

Mohammadnejad Z, Ghanbari M, Ganjali R, **Afshari JT**, Heydarpour M, Taghavi SM, Fatemi S, and Rafatpanah H. Association between vitamin D receptor gene polymorphisms and type 1 diabetes mellitus in Iranian population. *Mol Biol Rep.* 2011 May 17. [Epub ahead of print]

Behnaz Esmaeili, Seyed Abdol Rahim Rezaee, Poursan Layegh, **Jalil Tavakkol Afshari**, Phil Dye, Ehsan Ghayoor Karimiani, Fatemeh Kalalinia, and Houshang Rafatpanah. Expression of IL-17 and COX2 Gene in Peripheral Blood Leukocytes of Vitiligo Patients. *Iran J Allergy Asthma Immunol.* June 2011; 10(2): 81-89.



Saeed Samarghandian, **Jalil Tavakkol Afshari** and Saeideh Davoodi. Suppression of Pulmonary Tumor Promotion and Induction of Apoptosis by Crocus sativus L. Extraction. *Appl Biochem Biotechnol*. Volume 164, Issue 2 (2011), Page 238. Humana Press.

Saeed Samarghandian, **Jalil Tavakkol Afshari**, Saiedeh Davoodi. Honey induces apoptosis in renal cell carcinoma. *Pharmacognosy Magazine* (2011) 7(25): 46-52.

Brook A, Homaie F, **Tavakkol Afshari J**, Ganjali R, Afzalalghae M. Study of Polymorphism of CYP2D6\*4 Gene in Susceptibility to Breast Cancer. *Armaghane-danesh* (2010), volume 15, No.4 p. 322.

Saadati, N., Farid Hossein, **Tavakkol Afshari, J. R.**, Khaleighi, AR., and Naghebzadeh, B. A study on cytokines role in patients with arthritis and low back pain brucellosis, *Mashhad Medical Journal (Persian)*. 2010, Vol 53, No. 3, P. 133-137.

**Tavakkol Afshari J.**, Mohegi N. and Brook A. Ethanolic Extract Cytotoxic Effect of Zingiber Afficinale in Breast Cancer (MCF7) Cell Line. *Armaghane-danesh (Persian)*. (2010), Vol. 15, No. 2, p. 115- 124.

Mahmoodi MR., Tavakoli Afshar J., Mohajeri M., Fati AM., Yazdanpanah MJ, Shakeri MT and Mirzaei A. Molecular Identification of Leishmania Species Causing Cutaneous Leishmaniasis in Mashhad, Iran. *Scientific Journal of Ilam University of Medical Science (Persian)*. (2010), |Vol 18, No. 2. P. 17-23.

Saeed Samarghandian, **Jalil Tavakkol Afshari** and Saeideh Davoodi. Modulation of programmed cell death by honey bee in human prostate adenocarcinoma. *Journal of Medicinal Plants Research* (2010) Vol. 4(23), pp. 2551-2556, 4 December.

Mahnaz Abbasi, Zahra Rezaeyazdi, **Jalil Tavakol Afshari**, Mohammadreza Hatef, Maryam Sahebari and Nayereh Saadati. Lack of association of vitamin D receptor gene BsmI polymorphisms in patients with systemic lupus erythematosus. *Rheumatol Int* (2010) 30:1537–153.

Obeid M Malekshah, Ahmad Reza Bahrami, **Jalil Tavakol Afshari**, Fatemeh Mosaffa, Javad Behravan . Correlation between PXR and ABCG2 patterns of mRNA expression in MCF7 breast carcinoma cell derivatives upon induction by proinflammatory cytokines. *DNA and Cell Biology*. Online Ahead of Print; 2010, Sept 16 (doi: 10. 1089/dna.2010.1074).

Ahari, f. **Tavakkol Afshari, J.**, Poosti M.,and Boruk A. Cytotoxicity of orthodontic bonding adhesive resins on human oral fibroblasts. *European J. Oral Sciences*. First published on line June 21, 2010 (10.1093/ejo/cjq019).

Hesam Baradaran-Rahimi, Mehrdad Radvar, Hamid R. Arab, **Jalil Tavakol-Afshari**, and Ahmad R. Ebadian. Association of Interleukin-1 Receptor Antagonist gene polymorphisms with Generalized Aggressive Periodontitis in an Iranian population. *Journal of Periodontology*. 2010, Vol. 81, No. 9, Pages 1342-1346

Hassan Boskabadi, Gholamali Maamouri1, **Jalil Tavakol Afshari**, Majid Ghayour Mobarhan and Mohammad Taghy Shakeri. Serum Interleukin 8 Level as a Diagnostic Marker in Late Neonatal Sepsis. Iran J Pediatr. Mar. 2010, Vol 20 (No 1), pp 41-47.

Mohammad Reza Mahmoodi, Masoud Mohajery, **Jalil Tavakkol Afshari**, Mohhammad Taghae Shakeri, Mohhammad Javad Yazdan Panah, Fariba Berenji, Abdolmajid Fata. Molecular identification of *Leishmania* species causing cutaneous leishmaniasis in Mashhad, Iran. Jundishapur Journal of Microbiology, JJM. (2010); 3(4): 195-200.

Ebadian, AR., Radvar, M., Arab, HR., **Tavakkol Afshari, J.**, Sargolzaei, N., Gharegozloo, S., Brook, A. and Shirvani, M. Analysis of proinflammatory cytokines gene polymorphisms in generalized aggressive periodontitis (GagP). J Mash Dent Sch. (Persian) 2009: 33(3): 231-40.

Samaneh Boroumand-Noughabi, Hamid Reza Sima, Kamran Ghaffarzadehgan, Mostafa Jafarzadeh, Hamid Reza Raziee, Hanieh Hosseinneshad, Omeed Moaven, Mohammad Taghi Rajabi-Mashhadi, Amir Abbas Azarian, Mojtaba Mashhadinejad and **Jalil Tavakkol-Afshari**. Soluble Fas might serve as a diagnostic tool for gastric adenocarcinoma. BMC Cancer. 2010, **10**:275.

Boskabadi, H., **Tavakol Afshari, J.**, Ghayour-Mobarhan, M., Maamouri, G., Shaderi, MT., Sahbkar, A. and Ferns, G. Association between serum interleukin-6 levels and severity of perinatal asphyxia. Asian Biomedicine, 2010, 4(1), 79-85.

Homaie-Shandiz, F., Brook, A., **Tavakol Afshari, J.**, Mohammad Pour, AH., Ganjali R., Morad Abbassi Fuladi J., Saleh Moghadam, M. Norouzy R. and Afzalaghaee, F. Study the frequency of CYP2D6 null allele in Iranian population. Pharmacologyonline 3: 1003-1007, 2009.

Khadijeh Nejad Shahrokhbabadi, **Jalil Tavakkol Afshari**, Hassan Rakhshandeh, Azam Barouk. Study Of cytotoxicity effect of total saffron extract on hepatocarcinoma cell line (HepG<sub>2</sub>). Azad Islamic University Medical Journal. 1388, 19(3), 159-154 (Persian).

M Abbasi, Z Rezaie Yazdi, **J Tavakol Afshari**, M.R Hatf, M Sahebari, M Yarjanli. Vitamin D receptor gene BSMI polymorphisms in systemic lupus erythematosus and healthy subjects. JQUMS, Vol.13, No.1, Spring 2009 (Persian).

Taghavi, SM., Fatemi, SS. Rafatpanah, H., Ganjali, R., **Tavakol Afshari, J.**, and Valizadeh, N. Mutations in the coding regions of the hepatocyte nuclear factor 4 alpha in Iranian families with maturity onset diabetes of the young. Cardiovascular Diabetology, 2009, 8(63), 1-6.

Mosaffa, F., Lage, H., **Tavakol Afshari, J.**, Behravan, J. Interleukin-1 beta and tumor necrosis factor-alpha increase ABCG2 expression in MCF-7 breast carcinoma cell line and its mitoxantrone-resistant derivative, MCF-7/MX. *In Press*. Inflamm. Res. Published on line 31 March 2009.

Kiani, Z., **Tavakkol-Afshari, J.**, Hojjat, H., Arab, HR., Radvar, M., Sadeghizadeh, M. and Ebadian, AR. Polymorphism of IL-1 alpha (-889) Gene and its Association with Aggressive periodontitis. IJAAI, 2009, 8(2), 95-98.

Mousavi, SH., **Tavakkol Afshari, J.**, Brook, A. and Jafari-Anarkooli, I. Role of caspases and Bax protein in saffron-induced apoptosis in MCF-7. Food and Chemical Toxicology, 2009, 47(8), 1909-1913.

Abbasi, M., Rezaeiyazdi, Z., **Tavakkol Afshari, J.**, Hatef, MR., Sahebary, M. and Yarjanli, M. Vitamin D receptor polymorphism in patients with Systemic Lupus Erythematousus. The Journal of Qazvin University of Medical Sciences, 2009, 13(1), 29-33.

Mousavi, SH., **Tavakkol Afshari, J.**, Brook A. and Jafari-Anarkooli, I. Direct toxicity of rose bengal in MCF-7 cell line: Role of apoptosis. Food and Chemical Toxicology, 2009, 47(4):855-859.

Mousavi, SH., **Tavakkol Afshari, J.**, Brook, A. Study of cytotoxic effects of Saffron in MCF-7 cells. Iranian Journal of Pharmaceutical Sciences (IJPS), 2008, 4(4), 263-268.

MirMotalebi, F., Malekzadeh, F., **Tavakol Afshari, J.** and Nazari, S. Comparison of cytotoxicity of three dentin bonding systems with two thicknesses of dentin barrier on L929 cell line. Iranian Indoontic Journal. Fall 2008, 3 (4), 118.

**Tavakkol Afshari, J.**, Hajzadeh, M.A.R. and Barati, M. Effects of Aqueous Extract of *Alpinia Galanga* on Proliferation of HT29 and L929 Cell Lines In Vitro. J. North Khorasan U. Medical Sciences, 2008, No.1, Autumn; 47-58.

Shahrokhbadi K., Afshari RT., Alizade H., **Afshari JT.**, Javadi GR. Identification of DREB Homologous Genes in Bread Wheat via CODEHOP PCR Primer Design. Pakistan Journal of Biological Sciences, 2008, 11(16): 1979-1986.

**Tavakkol Afshari J.**, Brook A. and Mousavi SH. Study of cytotoxic and apoptogenic properties of Saffron extract in human cancer cell lines. Food and Chemical Toxicology. 2008, 46(11), 3443-3447.

Ghazvini, K; Ghanaat, J; **Tavakkol Afshari, J.** and Malvandi M. Prevalence of genital Chlamydia in male patients with urethritis attending STD clinics in Northeast of Iran. Eastern Mediterranean Health Journal, 2008, 14(6), 1333-1337.

Feizzdeh B, **Tavakkol Afshari J.**, Rakhshandeh H., Rahimi, A., Brook A. and Doosti H. Cytotoxic effect of Saffron stigma aqueous extract on human transitional cell carcinoma and mouse fibroblast. Urology Journal, 2008, 5(3): 161-167.

Ghodusi J., **Tavakkol Afshari J.**, Donyavi Z., Brook A., Disfani R. and Esmaeelzadeh M. Cytotoxic effect of new endodontic cement and mineral trioxide aggregate on L929 line culture. IEJ, 2008, 3(2), 17- 23.

Shahrokhbadi K., Afshari RT., Alizade H., **Afshari JT.**, Javadi GR. Compared two methods of isolating RNA from freezing and nonfreezing bread wheat (*Triticum aestivum L.*) plant tissues. Asian Journal of Plant Sciences, 2008, 7(5): 505-509.

Nassiry MR., Sadeghi B., Tohidi R., **Tavakkoli Afshari J.** and Khosravi M. Comparison of bovine lymphocyte antigen DRB3.2 allele frequencies between two subpopulations of Iranian Holstein cattle. African Journal of Biotechnology, 2008, 7(15), 2671-2675.

**Jalil Tavakkol Afshari**, Hamid Reza Sima, Reza Mirzaei, Narges Valizadeh, Ahmad Ebadian, Abulfazl Mahmood Zadeh, Mohammad Khaedalouei, Houshang Rafatpanah, Ali Mokhtarifar. Influence of interleukin-10 gene promoter polymorphisms on disease progression in patients infected with hepatitis B virus. Gastroenterology, suppl. 1, 2008, 134(4): A786.

Zahra Rezaieyazdi, **Jalil Tavakkol-Afshari**, Ehsan Esmaili, Elyas Orouji, Fakhrozaman Pezeshkpour, Mohammad Khodadoost, Maryam Mazhani, and Mahnaz Sandooghi. Association of HLA-DQB1 Allelic Sequence Variation with Susceptibility to Systemic Lupus Erythematosus. IJAAI, 2008, 7(2): 91-95.

Mehrdad Radvar, **Jalil Tavakkol-Afshari**, Mahboobeh N. Bajestan, Mohammad-Reza Naseh, Hamid-Reza Arab. The Effect of Periodontal Treatment on IL-6 Production of Peripheral Blood Monocytes in Aggressive Periodontitis and Chronic Periodontitis Patients. IJI, 2008, 5(2), 100-106.

Nemati A., Boskabady MH., **Tavakkol Afshari J.**, Mohaghegh Hazrati S. and Haeri Rohani A. The Effect of the natural adjuvants on cell count in lung lavage of sensitized guinea pigs. Pharmacologonline. 2008; 1:270-278.

**Jalil Tavakkol Afshari**, Zahra Rezaieyazdi and Maryam Mazhani. Association of IL-1 beta gene polymorphism with susceptibility to systemic lupus erythematosus. Int J Rheumatic Diseases. 2008, 11:30-32.

Bagherian A., Nematollahi H., **Afshari JT.** and Moheghi N. Compersion of allele frequency for HLA-DR and HLA-DQ between patients with ECC and caries-free children. J Indian Soc Perdod Prev Dent. 2008, 26(1): 18-22.

Ghada Kchour, Mahdi Tarhini, Nourieh Sharifi, Reza Farid, Ali Reza Khooei, Abbas Shirdel, **Jalil Tavakkol Afshari**, Ali Sadeghian, Zaher K. Otrrock, Olivier Hermine, Marwan El-Sabban and Ali Bazarbachi. Increased microvessel density in involved organs from patients with HTLV-I associated adult T cell leukemia lymphoma. Leukemia & Lymphoma, Month, 2008, 49(2): 265-270.

Akbari MR., Kermanshahi H., Nassiri Moghaddam H., Heravi Moussavi AR. And **Tavakkol Afshari J.** Effects of wheat-soybean meal based diet supplementmation with vitamin A, vitamin E and Zinc on blood cells, organ weights and humoral immune response in Broiler chickens. Journal of Animal and Veterinary advances. 2008, 7(3): 297-304.

Seilanian Toosi M., Rafatpanah H., **Tavakkol Afshari J.**, Ghavam Nassiri MR., Sima HR., Malekzadeh Moghani M. and Ganjali R. The role of Tumor Necrosis Factor- $\alpha$  promoter polymorphisms in gastric carcinoma in Iranians: A case-control study in the North-East of Iran. *Govaresh* 2007; 12(3), 192-199.

Gharehbaghi MM., Maamuri GA., peirovifar A., Boskabadi H., **Afshari JT.**, and Shakeri MT. Immediate diagnosis of early onset sepsis in premature newborns by measurement of cord C-reactive protein and interleukin-6. *Iranian Journal of Medical Sciences* 32(4), 217-221, 2007.

Hesabi Nameghi A., Moghaddam Nassiri H., **Tavakkol Afshari J.** and Kermanshahi H. Effects of Vitmain E on performance and immune response of 'Broiler Chicks. *J. Agricultural Sciences & Technology Journal (Persion)*. 2007; 20(7):123-135.

**Jalil Tavakkol Afshai**, Khadigeh Nejad Shahrokhbabadi, Hassan Rakhshandeh and Azam Brook. Cytotoxic effect of total Saffron extract on human hepatocellular carcinoma (HCC). *Clinical Immunology*, Vol. 123, Suppl. 1; 2007; S110.

Arab HR., **Tavakkol Afshari J.**, Baghani Z. and Mohegi N. Quantitative evaluation of interleukin-6, interleukin-11 and intereukin-17 in healthy an dinflammatory tissues of givival. *Clinical Immunology*, Vol. 123, Suppl. 1; 2007; S110.

**Tavakkol Afshari J.**, Aghasizadeh N., Bidar M., Fhmidekar MA., Zarbi M. and Brook A. Evaluation of IL-1 beta secretion level of human osteoblasts and morphology of these cells adjunct to gray MTA, white MTA, Portland cement and IRM as retrofilling. *Clinical Immunology*, Vol. 123, Suppl. 1; 2007; S110.

Nematollahy H., **Tavakkol Afshari J.** and Bagherian A. Association between HLADRB1\*04 and HLADQB1\*06 with severe early childhood caries. *Clinical Immunology*, Vol. 123, Suppl. 1; 2007; S110.

Ganjali R., **Tavakkol Afshari J.** and Mazhani M. Evaluation of polymorphism of IL-1RN gene in patients with SLE. *Clinical Immunology*, Vol. 123, Suppl. 1; 2007; S110.

Mehdi Seilanian Toosi, **Jalil Tavakkol Afshari**, Mohamad Reza Ghavam Nassiri, Mona Malekzadeh Moghani, Houshang Rafatpanah and Azam Brook. The role of Interleukin-1 beta gene polymorphism in gastric cancer in North-eastern Iran. *Iranian Journal of Pathology*, 2007, 2(2), 59-66.

Arab, HR., **Tavakkol Afshari, J.**, Radvar, M., Melati, E., Ebadian, AR. Analysis of -1082 interleukin-10 gene polymorphism in Iranian patients with generalized aggressive periodontitis. *Medical Science Monitor*, 2007, 13(11): CR510-514.

Nematollahy H., **Tavakkol Afshari J.** and Bagherian A. Association between HLADRB1\*04 and HLADQB1\*06 with severe early childhood caries. *Journal of Mashhad Dental School, Mashhad University of Medical Sciences (MUMS)*, 2007, 31: 133-40 (Persian).

Bidar M., **Tavakkol Afshari J.**, Zarabi MH. And Aghasezadeh, N. Evaluation of IL-1 beta secretion level by human osteoblast cells aducent to white MTA, Dark MTA, Portland cement and IRM as a retrograde filling material. Journal of Mashhad Dental School, Mashhad University of Medical Sciences (MUMS), 2007, 31: 133-40 (Persian).

Hesabi Nameghi A., Moghaddam Nassiri H., **Tavakkol Afshari J.** and Kermanshahi H. Effects of Vitmain E and C supplementation on performance and immune response of 'Broiler Chicks. J. Animal and Veterinary Advances. 2007; 6(9): 1060-1096.

Rezaieyazdi Z., **Tavakkol Afshari J.**, Sandooghi M. and Mohajer F. Tumour necrosis factor a -308 promotor polymorphism in patients with rheumatoid arthritis. Rheumatology International. 28(2), 189-191, 2007.

Kianifar HR., Talebi S, **Tavakkol Afshari J.**, Esmaili M., Davachi B. and Brouk, A. D28G mutation in congenial glucose-galactose malabsorption. Archives of Iranian Medicine. 2007; 10(4): 514-518.

Mohammad Hassan Khazai, Bahram Khazai , **Jalil Tavakkol Afshari**, Javad Akbarzadeh, Mohammad Reza Abbaszadegan, Ladan Khazai. IL-4 and Interferon gamma in recently diagnosed type I diabetes, A case-control study. ARYA Atherosclerosis Journal. 2007 (Spring); Volume 3, Issue 1: 1-7.

**Jalil Tavakkol Afshari**, Zahra Rezaieyazdi, Farnaz Shoja-Taheri and Majid Sadeghizadeh. The role of HLA-DQB1 alleles in suceptability to Rheumatoid Arthritis. APLAR Jorunal of Rheumatology. September 2007; 10(3): 209-213(5).

**Jalil Tavakkol Afshari**, Reza Farid Hosseini, Sara Hosseini Farahabadi, Farhad Heydarian, Mohammad Hossein Boskabady, Rasoul Khoshnavaz, Alireza Razavi, Ehsan Ghayoor Karimiani, and Gholamreza Ghasemi. Association of the Expression of IL-4 and IL-13 Genes, IL-4 and IgE Serum Levels with Allergic Asthma. Iran J Allergy Asthma Immunol. June 2007; 6(2): 67-72.

Zamani AR., Sadeghaina S., **Tavakkol Afshari J.**, Nasiri E. And Amiri I. In vitro semi-quantitative determination of human gamma-interferon-mRNA level by PCR. Acta Medica Iranica. 45(1), 8-12, 2007.

Sara Hosseini-Farahabadi, **Jalil Tavakkol-Afshari**, Houshang Rafatpanah, Reza Farid-Hosseini and Mohammad Khaje Daluei Association between the polymorphisms of IL-4 gene promoter (-590C>T), IL-13 coding region (R130Q) and IL-16 gene promoter (-295T>C) and allergic asthma. IJAAI. 6(1): 9-14, 2007.

Arab, HR., **Tavakkol-Afshari, J.**, Radvar, M., Moeintaghavi, A., Sargolzaei, N., Rigi, A. and Shirkhani, M. IL-1beta +3954 Genetic Polymorphism Association with Generalized Aggressive Periodontitis in Khorasan-Iran Province. J. Med. Sci. 2007; 7(2): 222-227.

Hajzadeh, MA., **Tavakkol Afshari, J.**, Ghorbani, A. and Shakeri, MT. Antiproliferative property of aqueous extract of garlic on human larynx tumour and

non-tumour mouse fibroblast cell lines. Australian Journal of Medical Herbalism. Vol 19, Issue 1, 33-7, 2007.

Mamouri Gh; Boskabadi H; **Tavakkol Afshari j**; Naseri F; Shakeri MT. Evaluation of quantitative IL-6 in the diagnosis of neonatal sepsis. Medical J. of MUMS. 49(93), 253-265, 2006.

Arab HR., **Tavakkol Afshari J**, Moeintaghavi A, Sargolzaie N and Brook A. In-vitro evaluation of periodontal dressing plus calcium hydroxide on L929 fibroblast cells. J. Dentistry. Mashhad University of Medical Sciences, 2006; 30:279-88.(Persian)

M.A. Hajzadeh , **J. Tavakkol Afshari**, A. Ghorbani, M.T. Shakeri. Antiproliferative property of aqueous extract of *Allium Sativum* on Hep2 and L929 cells *In Vitro*. Journal of Medicinal Plants. 5(18), 41-48, 2006.

Pishdadian A., **Tavakkol Afshari, J.**, Mahmoudi, M., Foroughi Poor, M., Moalem, A., Shahami, SR. and Fahmideh Kar, M. Detection of the soluble form of the Fas/APO-1 receptor in patients with human T-lymphotropic virus type 1-associated myelopathy. J. Iranian Basic Medical Science. 2006; 9(2), 144-152.

Ghoddusi, J., **Tavakkol Afshari, J.**, Bidar M., Khalili, M. Cytotoxic Effect of Amalgam and Mineral Trioxide Aggregate on Human Gingival Fibroblast Cell Line Culture. J. Mashhad Dental School. 2006; 30(1&2), 25-31. (Persian).

Hosseini-Farahabady, S., **Tavakkol Afshari, J.**, Ganjali, R., Rafatpanah, H., Ghaffari, J. and Farid Hosseini, R. Association between the polymorphism of TGF- $\beta$ 1 gene promoter (-590 C>T) and idiopathic chronic urticaria in northeastern Iran. IJAAI. 2006; 5(3): 109-113.

Talebi, S., **Tavakkol Afshari, J.**, Rakhshandeh, H., Feizi, R. and Seifi, B. Antiproliferative Effects of Fresh Red Garlic Extract on Human Transitional Cell Carcinoma *in vitro*. Int. J. Agri. Biol., 2006; 8(5), 609-614.

Bajestan MN, Radvar M, **Afshari JT**, Naseh MR and Arab HR. Interleukin-6 production by cultured peripheral blood monocytes before and after stimulation by E. coli lipopolysaccharide in Iranian patient with aggressive periodontitis. Med Sci Monit, 2006; 12(9): CR393-396.

Sharefe, M., Omidi, H., **Tavakkol Afshari, J.**, Ghanadan, A., Taghepoor, R. and Khodadoost, MA. Study of the relationship between human papillomavirus and laryngeal dysplasia in Mashhad-Iran. The Iranian Journal of Otorhinolaryngology. 2006; 18(1), 9-13.

**Tavakkol Afshari, J.**, Ghoddusi, J., Behforuzi, E and Kalili, M. Cytotoxic Effect of Amalgam and Mineral Trioxide Aggregate on Mouse Fibroblast Cell Line (L929). J. Mashhad Dental School. Vol. 29 (3&4); 2006, 177-186.

**Tavakkol Afshari, J.**, Rakhshandeh, H., Zamani, AR., Mahdavi Shahri, N., Ghazezadeh, L., Norozi, M. and Vahedi, F. Anti-tumoral activity of whole extract

from bitter melon on human Caucasian larynx carcinoma cell line (Hep2). *Hakim Research J.* Vol. 8, No. 2, 2005; 47-54.

Zamani, AR., **Tavakkol Afshari, J.** and Alikhani, MY. Molecular cloning and expression of human gamma interferon full cDNA gene in CHO cells. *IJI* 3(1), Winter 2006.

Arab, H.R., **Tavakkol Afshari, J.**, Radvar, M., Mointaghavi, A., Sargolzai, N. Hematian, M., Ebadian, AR., Ganiali, R. Association between TGF- $\beta$ 1 gene polymorphism (-509C/T) with aggressive periodontitis. *J. Med. Sci.* 6(3): 448-452, 2006.

M. Rad, M. Ahmadim R. Farid Hosseini, A.A. Ashkar, and **J. Tavakkol Afshari.** The role of interleukin-12 in protection induced by CpG ODN against *Listeria monocytogenes* in BALB/c and C%&BL/6. *Comparative Clinical Pathology*. Published on line, 1 February 2006.

**J. Tavakkol Afshari,** M.A. Hajzadeh, A. Ghorbani, H. Parsaie. Ethanolic extract of *Allium Sativum* has antiproliferative effect on Hep2 and L929 cells. *Pharmacognosy Magazine* 2(5); 29-31, 2006.

M. Radvar, **J. Tavakkol Afshari,** M. Naghebzadeh, M.R. Naseh and H. Arab. An evaluation of interleukin-6 production by cultured peripheral blood monocytes before and after stimulation by *E. coli* lipopolysaccharide in aggressive periodontitis from a persian population. *J. Iranian Basic Medical Science.* Vol. 8, No.3 (27), Autumn 2005.

**J. Tavakkol Afshari,** N. Ghomian, A. Shameli, M. T. Shakeri, M. A. Fahmidehkar, M. Mahajer, R. Khoshnavaz, and M. Emadzadeh. Determination of Interleukin-6 and Tumor Necrosis Factor-alpha concentrations in Iranian-Khorasanian patients with preeclampsia. *BMC Pregnancy and Childbirth* 5:14, 2005.

Naderinasab M, **Tavakkol Afshari J,** Fatehmanesh P, Faramarzi H and khodadost MA. Determination of Resistant *Staphylococcus Aureus* to Methicillin through Phenotypic Methods and Study of *mecA* Gene by Multiplex method. *Medical j. Mashhad University of Medical Sciences* 48(87), 7-16, 2005.

Sadeghian, A., **Tavakkol Afshari, J.**, Ghanaat, J., Sadeghian H., Namaii, MH. and Khodadoost, MA. Comparison of three methods for the identification of *Mycobacterium tuberculosis*. *Int. J. Agri. Biol.* 7(2); 203-206, 2005.

**Tavakol Afshari, J.**, Hutchinson, IV., Jorgensen, T.N., Kay, R.A. The immunoregulatory effect of transforming growth- $\beta$  with a specific T-cell receptor. *I.B.J.* 9(1); 9-14, 2005.

**Tavakkol Afshari, J.**, Hutchinson, IV. Analysis of IL-4 mRNA level by RT-PCR and association with IgE production in different rat strains, *J. Iranian Basic Medical Science.* 7(2); 120-124, 2004.



**Tavakol Afshari, J.**, Sadeghian, A. and Khaleli, M. Extraction of lipopolysaccharide (LPS) from Escherichia Coli's cell wall and its evaluation as a mitogen for proliferation of B-lymphocytes by MTT test. *Modarres Journal of Medical Sciences* 7(1), 39-48, 2004.

Arab, HR., **Tavakkol Afshari, J.**, M., Radvar, M., Khosrave, R. and Khodadoost, MA. Association of HLA-DQB1-0201 with generalized aggressive periodontitis in Khorasan-Iran province. *J. Dental School, Shahid Beheshti Medical Sciences University* 3(22), 485-487, 2004.

**Tavakkol Afshari, J.**, Farid, R., Enzevaei, A., Jabari, M., Zamani, AR., Khoshvavaz, R., Orouhi, E., Esmaeli, E., Brouk, A. and Fahmedehkar, M. The role of Th1 and Th2 cytokines in immune response to HTLV-I associated myelopathy/tropical spastic paraparesis. *Immunology 2004, Medimond S.r.l.*, 479-482, 2004.

Arab, HR., **Tavakkol Afshari, J.**, Tamiz, M., Radvar, M. and Shirkhani, M. IL-1 $\beta$ <sup>+3954</sup> genetic polymorphism association with generalized aggressive periodontitis in Khorasan-Iran province. *Immunology 2004, Medimond S.r.l.* 5-8, 2004.

Fazly Bazzaz, BS., **Tavakol Afshari, J.**, Ahmadi, A., Sabeti, Z and Safei, B. HESA-A, its cytotoxicity and mutagenicity. *Immunology 2004, Medimond S.r.l.*, 381-387, 2004.

**Tavakol Afshari, J.**, Gholamzad, M. and Zamani, AR. Purification and characterization of recombinant IL-4 and anti-IL-4 antibody from transfected CHO cell line and hybridoma respectively. *J. Iranian Basic Medical Science*, 6(3), 194-207, 2003.

**Tavakol Afshari, J.**, Zamani, A.R., Behravan, J., Sheshaeian, B. and Seifi, B. *In vitro* semi-quantitative determination of human gamma-interferon mRNA level by RT-PCR. *Hamadan Journal of Medical Science*, 28(2), 5-11, 2003.

**Tavakol Afshari, J.**, Khajeh-Karamodini, M., Khayat-Moghadam, M., Mahdavi-Shahri, N., Zamani, A.R. and Broumand, A.R. Pattern of Helicobacter pylori antigens isolated from gastric biopsy in patients with peptic ulcer. *Hamadan Journal of Medical Science*, 9(4), 5-10, 2003.

Torki, M., Arshami, J., Eftekhari Shahroodi, F., **Tavakoli Afshar, J.** and Golian, A. Effects of dietary n-3 and n-6 polyunsaturated fatty acids on performance and humoral immune response in Broiler chicks. *Iranian J. Agric. Sci.* 34(1), 115-125, 2003.

**Tavakkol Afshari, J.**, Shahrokh Abadi, KH. And Rakhshandeh, H. Evaluation of cytotoxic effect of Saffron on hepatocellular carcinoma cell line. *Proceedings of the 3<sup>rd</sup> National Symposium on Saffron.* 220-226, 2003.

Ravansalar, H, **Tavakol Afshari, J.**, Varasteh, A.R. and Seyedeen, M. Production and purification of polyclonal antibody to human insulin. *ASRAR*, 2(9), 37-49, 2002.

Hassan-Zadeh Khayat, M., **Tavakol Afshari, J.** and Shafeei Meybodi, A.M. Determination of the amount of plasma's acetaminophen by spectrophotometry and HPLC. *J. Iranian Basic Medical Science*. 5(1), 2002.

Majid-Zadeh Heravey, R., Arshami, J. and **Tavakol Afshari, J.** Effects of energy and protein on growth and humoral immune response in broiler chicks. *J. Agriculture Science*. 12(1), 2002.

**Tavakol Afshari, J.**, Shirdel, A. and Broumand, A.R. Establishment of HTLV-I infected T cell line from ATL patients in Khorasan province. *Kosar Medical J*. 2(7), 2002.

**Tavakoli Afshari, J.** and Liu, TZ. Rapid spectrophotometric methods for the quantitation of acetaminophen in serum. *Analytica Chimica Acta*, 443 (1), 165-169, 2001.

**Tavakkol Afshari, J.**, Dastghayb, M., and Ravasoli, A.R. Characterization of electrolyzed and non-electrolysed antigenic subunits of *Echinococcus Granulosus* cyst fluid in hydatid patients. *Scandinavian Journal of Immunology*, Vol. 54, Supp. 1, 2001.

**Tavakkol Afshari, J.**, Shirdel, A. and Broumand, A.R. Establishment of human T-cell line infected with HTLV-I from ATL patients in Khorasan –IRAN. *Scandinavian Journal of Immunology*, Vol. 54, Supp. 1, 2001.

Bejeh, N., Nazem, F., **Tavakol Afshari, J.**, Nejat-Shokohe, A., Mahmmoudi, M. and Rastein, M. The effect of two eccentric and concentric exercise pattern on given immune system parameters of athletic women. *J. Iranian Basic Medical Science*. 3(1), 2001.

Bejeh, N., Nazem, F., **Tavakol Afshari, J.** and Nejat-Shokohe, A. Comparison of inhibitory effect of eccentric and concentric exercise of athletic women's immune system. *Modares J. of Medical Science*. 3(2), 2001.

**Tavakol Afshari, J.**, Hutchinson, IV and Kay, RA. Long – term alloreactive T cell lines and clones express a limited T cell receptor repertoire. *Transplant Immunology*. 5:122-128, 1997.

**Tavakol Afshari, J.**, Hutchinson, IV., Kay, RA. Limited heterogeneity of TCR V $\beta$  gene utilisation by alloreactive T cells. *Immunologist*. Vol. 54, Suppl. 5, 1995.

**Tavakol Afshari, J.**, Hutchinson, IV and Kay, RA. Common N- region sequences and motifs shared by the TCRV $\beta$  of alloreactive T cells. *Immunology*. 1995; Suppl.3.

**Tavakol Afshari, J.**, Hutchinson, IV., Kay, RA. Characterization of allospecific T cell-clones. *Immunology*. 1994:83 Suppl. 1.

**Tavakoli Afshari J.**, Hutchinson, IV and Kay, RA. Characterization of allospecific T cell-clones. *Immunology*. 1994:83 Suppl. 10.

**Tavakoli, J.**, Haghi, Z., and Zehtabchi, S. Immunodiagnostic tests in hydatidosis of the lung. *M.J.IRI.* 6:101-103, 1992.

Farid, R., Baradaran, H., Nikbin, B., **Tavakol, J.** and Amini, H. The distribution of class I HLA. *M.J.IRI.* 3:43-45, 1989.

**Tavakoli, J.** and Liu, T. Development of a rapid spectrophotometer screening method quantitation of acetaminophen in human serum. *M.J.IRI.* 2:243-247, 1988.