

CURRICULUM VITAE

Seyed Jalil Tavakkol Afshari, M.Sc., Ph.D., MT(ASCP), CLS(NCA)

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EDUCATION:

University of Toronto.
Cell Therapy Translational Research Laboratory
Krembil Research Institute,
Princess Margaret Cancer Center
University Health Network, Toronto, ON, Canada.
Fellowship in Cell Therapy and Regenerative Medicine. 2019

University of Manchester, Manchester, U.K.
Ph.D., Cellular and Molecular Immunology. 1995.
Thesis topic: Analysis of T cell receptor V β -chain gene
repertoires in allo-reactive T lymphocytes.

California State University, 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.

Greater Bakersfield Memorial Hospital, Bakersfield, CA., USA.
Internship program in clinical laboratory sciences. 1988.

APPOINTMENTS AND PROFESSIONAL ACTIVITIES:

Sept 2022- Present **Director of Immunology and Allergy Dept.**, Medical School, Mashhad University of Medical Sciences (MUMS), Mashhad, IRAN.

March 2019- Sept. 2019 **Fellowship**,
Cell Therapy Translational Research Laboratory, Krembil Research Institute, Princess Margaret Cancer Center, University Health Network, Toronto, ON, Canada.

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.

Director, Regenerative Medicine and Stem cells Center, 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.

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

Head, Clinical Immunology Laboratory, Ghaem Medical Center, Mashhad Univ. of Medical Sciences (MUMS), Mashhad, IRAN.

1992 - 1995 **Ph.D. student/Research Assistant**, 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.

Private Activity:

2017-Present **Director**, Parnia Stem Cell institute (knowledge based Institute)

HONORS AND AWARDS:

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| 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, MUMS, Mashhad, Iran. |

RESEARCH EXPERIENCE:

Mesenchymal & hematopoietic Stem Cell therapy and regenerative medicine.

Cell therapy in autoimmune and cancer diseases (NKC, Treg,...)

HTLV-I and Cellular Immune Response.

Immune response to peptide vaccine.

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.

qRT-PCR

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

Cell proliferation analysis; MTT assay and ³[H]-thymidine uptake assay.

Cytotoxicity analysis; ⁵¹Cr release assay.

HLA Typing. Microcytotoxicity and molecular methods.

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

RESEARCH INTERESTS:

Current research interests include mesenchymal stem cell therapy for autoimmune and neurodegenerative diseases (e.g. MS, osteoarthritis), immune response against HTLV, 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).

California Society of Medical Technologist.

Iranian Society for Allergy and Immunology.

Iranian Society for Biotechnology.

PUBLICATION:

Peer reviewed Journals

Mobarra N, Saeedi M, Rajai S, Tavakkol-Afshari J, Ghasemi A. et al. Differentiation of Human Wharton Jelly Mesenchymal Stem Cells into Germ-Like Cells; emphasis on evaluation of Germ-long non-coding RNAs. in Molecular Biology Reports. Accepted for publication. 2022.

Atabaki M, Shariati-Sarabi Z, **Tavakkol-Afshari J**, Taghipour A, Jafari MR, Nikpoor AR, et al. Curcumin as an effective suppressor of miRNA expression in patients with knee osteoarthritis. Avicenna Journal of Phytomedicine. 2022;12(4):346-56.

Shapouri-Moghaddam A, **Afshari JT**, Saeed Modaghegh M-H, Rahimi HR, Mahmoudi M, Fayazi M, et al. Cytokine Analysis in Patients with Different Stages of Thromboangiitis Obliterans. Current Molecular Medicine. 2021;21(9):812-8.

Masoumi E, Mirzaei A, Ghaffari-Nazari H, Tahaghoghi-Hajghorbani S, Jalali SA, **Tavakkol-Afshari J**. Serum Levels of Soluble Fas and Fas Ligand in Iranian Women with Pre-eclampsia. Reports of Biochemistry & Molecular Biology. 2021;9(4):394.

Shapouri-Moghadam A, **Afshari JT**, Modaghegh M-HS, Mahmoudi M, Rahimi HR, Ehteshamfar SM. Differences in autoimmunity factors based on the activity of thromboangiitis obliterans. Turk Kardiyol Dern Ars. 2021;49(6):439-47.

Shafaei H, Farzanegan F, Nazari MS, Bardideh E, **Afshari JT**, Azani F. Study of Cytotoxicity and Genotoxicity of “Nanoamorphous Calcium Phosphate (NACP)” In Macrophage RAW264 cell line: An In-vitro Study. Iranian Journal of Orthodontics. 2021;16(1):1-8.

Tavakol Afshari J. Modeling for the body defense mechanisms in stage I melanoma patient and sensitivity analysis by using Partial Rank Correlation Coefficient (PRCC) method. Journal of Control. 2021;15(2):159-75.

Beiki S, **Tavakkol-Afshari J**, Shariati-Sarabi Z, Poursamimi J, Gowhari Shabgah A, Mohammadi M. A Significant Reduction in the Plasma Levels and Gene Expression of CCL2 in Patients with Osteoarthritis following Intervention with Krocina™. Reports of Biochemistry and Molecular Biology.10-9.

Talaei A, Mojahedi M, **Tavakkol-Afshari J**, Bordbar MRF, Shakeri MT, Zaferanloo NR, et al. Association Analysis Between Interleukin 1 Beta Locus-511 Gene Polymorphism and Bipolar I Disorder: A Case-control Study in an Iranian Population. Modern Care Journal. 2021;18(2).

- Khalighi N, Jabbari-Azad F, Barzegar-Amini M, Tavakkol-Afshari J, Layegh P, Salari R. Impact of *Althaea Officinalis* extract in patients with atopic eczema: a double-blind randomized controlled trial. *Clinical Phytoscience*. 2021;7(1):1-6.
- Poursamimi J, Shariati-Sarabi Z, **Tavakkol-Afshari J**, Mohammadi M. A Significant Increase in the Gene Expression of GATA-3 Following the Treatment of Osteoarthritis Patients with Crocin. *Iranian Journal of Allergy, Asthma and Immunology*. 2022;21(1):35.
- Sharifzadeh N, Ghasemi A, **Tavakol Afshari J**, Moharari F, Soltanifar A, Talaei A, et al. Intrathecal autologous bone marrow stem cell therapy in children with autism: A randomized controlled trial. *Asia-Pacific Psychiatry*. 2021;13(2):e12445.
- Rezaee H, Abbasnia S, Alenabi A, Vakili R, Moheghi N, **Afshari JT**, et al. Expression of Vascular Endothelial Growth Factor A and Its Type 1 Receptor in Supratentorial Neoplasm. *Reports of Biochemistry & Molecular Biology*. 2021;10(3):354.
- Mohammadian Haftcheshmeh S, Zamani P, Mashreghi M, Nikpoor AR, **Tavakkol-Afshari J**, Jaafari MR. Immunoliposomes bearing lymphocyte activation gene 3 fusion protein and P5 peptide: A novel vaccine for breast cancer. *Biotechnology Progress*. 2021;37(2):e3095.
- Tavakol-Afshari J, Boroumand AR, Farkhad NK, Moghadam AA, Sahab-Negah S, Gorji A. Safety and efficacy of bone marrow derived-mesenchymal stem cells transplantation in patients with amyotrophic lateral sclerosis. *Regenerative Therapy*. 2021;18:268-74.
- Atabati H, Yazdanpanah E, Mortazavi H, Raoofi A, Esmaeili S-A, Khaledi A, et al. Immunoregulatory effects of tolerogenic probiotics in multiple sclerosis. *Reviews on New Drug Targets in Age-Related Disorders*. 2021:87-105.
- Sepahi S, Soheili ZS, **Tavakkol-Afshari J**, Mehri S, Hosseini SM, Mohajeri SA and Khodaverdi E. Retinoprotective Effects of Crocin and Crocetin via Anti-angiogenic Mechanism in High Glucose-Induced Human Retinal Pigment Epithelium Cells. *Current Molecular Pharmacology*, 19 Apr 2021, DOI: 10.2174/1874467214666210420111232 PMID: 33881975.
- Sara Jalali Jivan, Seyed Mostafa Monzavi, Bita Zargaran, Daryoush Hamidi Alamdari, **Jalil Tavakol Afshari**, Ali Etemad-Rezaie, Tayebah Asadi Sakhmaresi and Zhaleh Shariati-Sarabi. Comparative Analysis of the Effectiveness of Intra-articular Injection of Platelet-Rich Plasma versus Hyaluronic Acid for Knee Osteoarthritis: Results of an Open-Label Trial. *ABJS*. 2021. 10.22038/52003.2569.
- Rezaieyazdi Z, Nomani H, Hatf MR, **Afshari JT**, Abbasi M, Esmaily H and Khodashahi M. Correlations and Influence of TAP2 Genes Polymorphisms and Systemic Lupus Erythematosus Propensity. *Current Rheumatology Reviews*, 09 Mar 2021, DOI: 10.2174/1573397117666210309152847 PMID: 33687897

Elham Masoumi, Asad Mirzaei and **Jalil Tavakkol-Afshari**. Serum Levels of Soluble Fas and Fas Ligand in Iranian Women with Pre-eclampsia. Reports of Biochemistry & Molecular Biology. Vol.9, No.4, Jan 2021.

Saeed Mohammadian Haftcheshmeh, Parvin Zamani, Mohammad Mashreghi, Amin Reza Nikpoor, **Jalil Tavakkol-Afshari**, Mahmoud Reza Jaafari. Immunoliposomes bearing lymphocyte activation gene 3 fusion protein and P5 peptide: A novel vaccine for breast cancer. Biotechnology Progress. 29 October 2020.

Houshang Rafatpanah, Zohreh Poursina, Reza Boostani, Hadi Zare Marzouni, Mahdi Atabaki, Reza Farid Hosseini, **Jalil Tavakkol-Afshari** and Mojgan Mohammadi. A significant association between CXCL10 -1447 A > G and IL18 -607 C > A gene polymorphism with human T-cell lymphotropic virus type 1 associated myelopathy/tropical spastic paraparesis (HAM-TSP), a case-control report from city of Mashhad, Iran. Journal of NeuroVirology volume 27, pages 249–259 (2021).

Ahmad Mohammed Alwan, Fahimeh Afzaljavan, **Jalil Tavakol Afshari**, Fatemeh Homaei Shandiz, Matineh Barati Bagherabad, Elham Vahednia, Nahid Kheradmand, Alireza Pasdar. The impact of CYP19A1 variants and haplotypes on breast cancer risk, clinicopathological features and prognosis. Molecular Genetics & Genomic Medicine. 20 May 2021 <https://doi.org/10.1002/mgg3.1705>.

Abbas Shapouri-Moghaddam, **Seyed Jalil Tavakkol Afshari**, Hamid Reza Rahimi, Mohammad-Hadi Saeed Modaghegh, Mahmoud Mahmoudi and Seyed Morteza Ehteshamfar. Para-Clinical and Immunological Evaluation in Buerger's Disease as a Suspected Autoimmune Disease: Case Series. Reports of Biochemistry & Molecular Biology. Vol.9, No.4, Jan 2021.

Maryam Khoshkhui, Farzaneh Irvani, Farahzad Jabbari-Azad, Hadi Zare Marzouni, **Jalil Tavakkol-Afshari**, Hanieh Zamani, Maryam Davarpanah, Alireza Hamidian Jahromi, Mojgan Mohammadi. Significant association between Taq1 gene polymorphism in vitamin D receptor and chronic spontaneous urticaria in the Northeast of Iran. Clin Mol Allergy. 2021 May 27;19(1):6. doi: 10.1186/s12948-021-00145-w.
PMID: 34044815 PMCID: PMC8161666 DOI: 10.1186/s12948-021-00145-w

Najmeh Kaffash Farkhad, Hamidreza Reihani, Alireza Sedaghat, Amir Adhami Moghadam, Ahmad Bagheri Moghadam and **Jalil Tavakol-Afshari**. Are Mesenchymal Stem Cells able to manage Cytokine Storm in COVID-19 patients? Regenerative Therapy. DOI: <https://doi.org/10.1016/j.reth.2021.05.007>. 31 May 2021.

Jivan SJ, Monzavi SM, Zargarani B, Alamdari DH, Afshari JT, Etemad-Rezaie A, et al. Comparative analysis of the effectiveness of intra-articular injection of platelet-rich plasma versus hyaluronic acid for knee osteoarthritis: results of an open-label trial. Archives of Bone and Joint Surgery. 2021;9(5):487.

Mina Alavi, **Jalil Tavakkol-Afshari**, Zhaleh Shariati-Sarabi, Arezoo Gowhari Shabgah, Mohsen Ghoryani, Ali Ghasemi, Mojgan Mohammadi. Intravenous injection of autologous bone marrow-derived mesenchymal stem cells on the gene expression

and plasma level of CCL5 in refractory rheumatoid arthritis. J Research in Medical Sciences. Dec. 2020.

Mahdi Atabaki, Zhaleh Shariati-Sarabi , Mehdi Barati , **Jalil Tavakol-Afshari**, Mojgan Mohammadi. MicroRNAs as the Important Regulators of T Helper 17 Cells: A Narrative Review. Iranian Journal of Allergy, Asthma and Immunology. Volum 19, issue 20, 2020.

Shapouri-Moghaddam, Abbas ; **Tavakol Afshari, Seyed Jalil** ; Modaghegh, Mohammad-Hadi Saeed ; Rahimi, Hamid Reza ; Mahmoudi, Mahmoud ; Fayazi, Mojtaba ; Ehteshamfar, Seyed Morteza. Cytokine Analysis in Patients with Different Stages of Thromboangiitis Obliterans. Current Molecular Medicine. December 2020.

Elham Masoumi, Asad Mirzaei, Haniyeh Ghaffari-Nazari, Sahar Tahaghoghi-Hajghorbani, Seyed Amir Jalali, **Jalil Tavakkol-Afshari**. Serum Levels of Soluble Fas and Fas Ligand in Iranian Women with Pre-eclampsia. Reports of Biochemistry and Molecular Biology J. Volum 9, NO 4, June 2020.

Elnaz Kalhor, Amin Noori, **Jalil Tavakol Afshari**, Sara Saboori Rad. Modeling for the body defense mechanisms in stage I melanoma patient and sensitivity analysis by using Partial Rank Correlation Coefficient (PRCC) method. J of control. August 2020.

Khadijeh Saket, Roshanak Salari, Ehsan Saburi, Mahdi Yousefi, Mohammad Ali Khodadoust, Mahdieh Hadi, **Jalil Tavakol Afshari**. Anti-cancer effect of Urginea maritima bulb extract invitro through cell cycle arrest and induction of apoptosis in human breast cancer cell lines._Current Drug Discovery Technologies, Aug 2020.

JalilTavakol-Afshari, Mohammad-Hossein Boskabady, Roshanak Salari. Anticancer properties of saffron. Saffron, Chapter 32 .2020, Pages 485-492.

Narges Sharifzadeh, Ali Ghasemi, **Jalil Tavakol Afshari**, Fatemeh Moharari, Atefeh Soltanifar, Ali Talaei, Hamid Reza Pouryousof, Mahsa Nahidi, Mohammad Reza Fayazi Bordbar, Maliheh Ziaee. Intrathecal autologous bone marrow stem cell therapy in children with autism: A randomized controlled trial. Asia-Pacific Psychiatric. November 2020.

Majid Anushiravani , Farahzad Jabbari Azad^b Ali Taghipour , Majid Mirsadraee^d , **Jalil TavakolAfshari** , Roshanak Salari ^fM. Javad Najafzadeh^g ,MaryamKhoshkhui^hRoger M.Engel , ⁱMasoumeh Kaboli Farshchi^a. The effect of *Plantago major* seed and Almond gum on refractory asthma: A proof-of-concept study. J of Herbal Medicine. February 2020, Volume 19, 100297.

Mohammad-Hossein Boskabady, Zahra Gholamnejad , Mohammad- Reza Khazdari , **JalilTavakol-Afshari**. Antiinflammatory and immunomodulatory effects of saffron and its derivatives. Saffron, Chapter 25 .2020, Pages 405-421.

Seyed-Morteza Ehteshamfar , Masoume Akhbari , **Jalil Tavakol Afshari** , Motahare Seyedi , Banafsheh Nikfar , Abbas Shapouri-Moghaddam, Erfan Ghanbarzadeh , Amir abbas Momtazi-Borojeni . Anti-inflammatory and immune-modulatory impacts of berberine on activation of autoreactive T cells in autoimmune inflammation. J of Cellular and Molecular Medicine. 2020 December, 24 (23):13573-13588.

Reza Soleimani, Mojgan Mohammadi, Seyed Ahmad Saghebi, Ali Taghipour, Ali Khorsand Vakilzadeh, **Jalil Tavakol Afshari**. Th₁/Th₂ and T_{reg}/Th₁₇ ratios and their changes between wet and dry cupping therapies in Persian Medicine. AJP. Vol. 10, No. 1, Jan-Feb 2020, 24-34.

Mohammad Mahdi Hayatbakhsh, Arezoo Gowhari Shabgah, Saeed Pishgouyi, **Jalil Tavakol Afshari**, Hadi Zeidabadi, and Mojgan Mohammadi. The Serum Levels of *CCL2* and *CCL16* Expression in Patients with Irritable Bowel Syndrome. Rep Biochem Mol Biol. 2019 Apr; 8(1): 9–14.

Amirabbas Salmani, Mojgan Mohammadi, Reza Farid Hosseini, **Jalil Tavakol Afshari**, Ali Fouladvand, Sajad Dehnavi, Maryam Khoshkhooi, and Farahzad Jabbari Azad . A significant increase in expression of FOXP3 and IL-17 genes in patients with allergic rhinitis underwent accelerated rush immunotherapy. Iran J Basic Med Sci. 2019 Sep; 22(9): 989–996.

Abbas Shapouri-Moghaddam, Mojgan Mohammadi, Hamid Reza Rahimi, Habibolah Esmaeili, Mahmoud Mahmoudi, Mohammad-Hadi Saeed Modaghegh and **Jalil Tavakol Afshari** . The Association of HLA-A, B and DRB1 with Buerger's Disease. Rep Biochem Mol Biol. 2019 Jul; 8(2): 153–160.

Abbas Shapouri Moghaddama, , Maryam Arfaatabar , **Jalil Tavakol Afsharia**, Ali Shakeri Moghaddam , Zahra Mohammadzamani and Azad Khaledi. Prevalence and Antimicrobial Resistance of Bacterial Uropathogens Isolated from Iranian Kidney Transplant Recipients: A Systematic Review and Meta-Analysis. Iranian J Public Health. 2019 Dec; 48(12): 2165–2176.

Abbas Shapouri Moghaddama, **Jalil Tavakol Afsharia**, Seyed Alireza Esmaeili, EhsanSaburi, Zeinab Joneidi and Amir Abbas Momtazi-Borojenighi. Cardioprotective microRNAs: Lessons from stem cell-derived exosomal microRNAs to treat cardiovascular disease. Atherosclerosis. Volume 285, June 2019, P. 1-9.

Reza Daliri, Hasan Kermanshahi, Abolghasem Gholiyan, Mohmod Reza Jafari and Jalil Tavakol Afshari. Effect of Different Levels of Nanoparticle Curcumin on Egg Quality, Blood Parameters, Immune Response and Digestibility in Laying Hens. Research on Animal Production, Vol. No., Winter. 2019.

Mohsen Ghoryania, Zhaleh Shariati-Sarabic, Jalil Tavakkol-Afsharia, Ali Ghasemi, Javad Poursamimia and Mojgan Mohammadi. Amelioration of clinical symptoms of patients with refractory rheumatoid arthritis following treatment with autologous bone marrow-derived mesenchymal stem cells: A successful clinical trial in Iran. Biomedicine & Pharmacotherapy. 109(2019), 1834-1840.

Mojgan Mohammadi, Jalil Tavakkol-Afshari. Gene expression pattern of CCL2, CCL3, and CXCL8 in patients with bipolar disorder. Journal of Research in Medical Sciences. Accepted for publication. 2019.

Mohsen Ghoryani, Zhaleh Shariati-Sarabi, **Jalil Tavakkol-Afshari**, Ali Ghasemi, Javad Poursamimi and Mojgan Mohammadi. The role of BAFF and APRIL in Rheumatoid arthritis. Journal of Cellular Physiology. Volume234, Issue10 October 2019, Pages 17050-17063.

Reza Soleimani, Seyed Ahmad Saghebi, Ali Taghipour, Ali Khorsand Vakilzadeh, **Jalil Tavakol Afshari**. Evaluation of changes in health and complete blood count after wet cupping. J. Biochemical Technology. Accepted of publication. 2018.

Jalil Tavakkol-Afshari, Zahra Meshkat, Saeed Zibaie, Mahdi Yousefi, Mousa-AlReza Hoseini, Amin Reza Nikpoor, Mohammad Reza Ardakani Movaghati, Mahmoud Sadeghi Vazin. Natural Products for the Treatment of Hepatitis. Journal of Research in Medical and Dental Science, Volume 6, Issue 6, 196-201, 2018.

Mojgan Mohammadi, Mohsen Ghoryani, Ali Ghasemi, **Jalil Tavakkol-Afshari**, Zhaleh Shariati-Sarabi, Javad Poursamimi. Significant suppressive effect of autologous bone marrow-derived mesenchymal stem cells on Th17 cells and IL-17 in patients with refractory rheumatoid arthritis; a successful clinical trial in Iran. Biomedicine & Pharmacotherapy. **Submitted**.

Narges Sharifzadeh; Ali Ghasemi; **Jalil Tavakol Afshari**; Fatemeh Moharari; Atefeh Soltanifar; Ali Talaei; Hamid Reza Pouyousof; Mahsa Nahidi; Mohammad Reza Fayyazi Bordbar; Maliheh Ziaee. Augmenting Autologous Bone Marrow Stem Cell Therapy in Routine Treatment of Children with Autism: A Randomized Clinical Trial. Journal of Autism and Developmental Disorders. **Submitted**.

Akbar Derakhshan, **Jalil Tavakkol-Afshari**, Javad Sadeghi Allah Abadi, Mohammad-Reza Ansari Astaneh, Ali Reza Derakhshan, Amin Reza Nikpoor and Saeed Shokoohi Rad. Association of the Myocilin Gene Polymorphism With Primary Open Angle Glaucoma. Med Hypothesis Discov Innov Ophthalmol. 2019; 8(1).

Mohsen Ghoryani, Zhaleh Shariati-Sarabi, **Jalil Tavakkol-Afshari**, Ali Ghasemi, Javad Poursamimi, Mojgan Mohammadi. Amelioration of clinical symptoms of patients with refractory rheumatoid arthritis following treatment with autologous bone marrow-derived mesenchymal stem cells: A successful clinical trial in Iran. Biomed Pharmacother, **2019** Jan 26;109:1834-1840..

Reza Saeidi, Hossein Akhavan, **Jalil Tavakkolafshari** and Abbas Shapouri-Moghaddam. Clinical and Biochemical Effects of Recombinant Human Granulocyte Colony-Stimulating Factor on the Prognosis of Preterm Infants with Early Onset Neonatal Sepsis. Archives of Pediatric Infectious Diseases, January 31, **2019**, 7 (1).

Akbar Derakhshan, **Jalil Tavakkol Afshari**, Javad Sadeghi Allah Abadi, Amin Reza Nikpoor, Ramin Daneshvar, Saeed Shokoohi Rad, Mohammad-Reza Ansari-Astaneh. The Association Between the Transforming Growth Factor Beta-1 -509C>T Gene Polymorphism and Primary Open Angle Glaucoma in North Eastern Iran. Reports of Biochemistry & Molecular Biology. Vol.7, No.2, Jan **2019**.

Akbar Derakhshan, Javad Sadeghi Allah Abadi, **Jalil Tavakkol-Afshari**, Amin Reza Nikpoor, Ramin Daneshvar, Saeed Shokoohi Rad, Mohammad-Reza Ansari-Astaneh, Sadegh Ghafarian. Association and Increased Risk of Primary Open Angle Glaucoma

with TGFB2Rs991967 Gene Polymorphism in North Eastern Iranian Patients. Reports of Biochemistry & Molecular Biology, Vol.7, No.2, Jan **2019**.

Hadi Zare Marzouni, Reza Farid-Hosseini, Farahzad Jabari-Azad, **Jalil Tavakkol-Afshari**, Farahnaz Tehranian, Maryam khoshkhui, Amin Reza Nikpoor, Mojgan Mohammadi. CD14 as A Serum Immune Biomarker and Genetic Predisposition Factor for Allergic Rhinitis. IJOR., Vol. 31, No 1, Jan. and Feb. **2019**, Page 1-9.

Maryam Talebi, Iman Parisay, **Jalil Tavakol afshari**, Arezoo Shajiei, and Mostafa Sofiani Ghadim. Viability and Reproducibility of Periodontal Ligament Cells on Avulsed Teeth Stored in Ham's F-10 Solution. Journal of Clinical Pediatric Dentistry: **2018**, Vol. 42, No. 3, pp. 203-207.

Seyed Amir Jalali, Fatemeh Homaei Shandiz, **Jalil Tavakol Afshari**, Maryam Davarpanah Tanha Ghochan, Amin Reza Nikpoor, Mojgan Mohammadi. Status of FAS and FAS Ligand Gene Polymorphisms in Patients with Breast Cancer in Northeastern IRAN. Reports of Biochemistry & Molecular Biology Vol.7, No.1, Oct **2018**.

Ehsan Saburi, **Jalil Tavakol-Afshari**, Sajjad Biglari and Yousef Mortazavi. Is α -N-acetylgalactosaminidase the key to curing cancer? A mini-review and hypothesis. JBUON, 22(6): 1372-1377, **2017**.

Abbas Shapouri-Moghaddam, Saeed Mohammadian, Hossein Vazini, Mahdi Taghadosi, Seyed-Alireza Esmaeili, Fatemeh Mardani, Bita Seifi, Asadollah Mohammadi, **Jalil T. Afshari**, Amirhossein Sahebkar. Macrophage plasticity, polarization, and function in health and disease. J. cellular physiology. First published: 1 March **2018**. <https://doi.org/10.1002/jcp.26429>

Fatemeh Homaei-Shandiz, Hassan Mehrad-Majd, Mojtaba Tasbandi, Amir Aledavood, **Jalil Tavakol Afshari**, Vahid Ghavami, and 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 Pac J Cancer Prev., 17(10): 4655–4659, **2016**.

Amin Reza Nikpoor, **Jalil Tavakkol-Afshari**, Kayvan Sadri, Seyed Amir Jalali, Mahmoud Reza Jaafari. Improved tumor accumulation and therapeutic efficacy of CTLA-4-blocking antibody using liposome-encapsulated antibody: In vitro and in vivo studies. Nanomedicine: Nanotechnology, Biology, and Medicine, Vol. 13, No. 8, November 2017, Pages 2671-2682, **2017**.

Zahra Gholizadeh, **Jalil Tavakkol-Afshari**, Amin Reza Nikpoor, Seyed Amir Jalali, Mahmoud Reza Jaafari. Enhanced immune response induced by P5 HER2/neu-derived peptide-pulsed dendritic cells as a preventive cancer vaccine. J. Cell. Mol. Volume22, Issue1, January 2018, Pages 558-567, **2018**.

Zeinab Tavakkol Afshari, Amin Reza Nikpoor, **Jalil Tavakkol Afshari**, Rashin Ganjali, Parvaneh Sanglakh Ghoochan Atigh, Fatemeh Homaei Shandiz, Khadijeh Jamialahmadi. Lack of an Association between a Functional

Polymorphism in the *MDM2* Promoter and Breast Cancer in Women in Northeast Iran. Reports of Biochemistry & Molecular Biology. Vol.6, No.1, Oct **2017**.

Tahaghoghi-hajghorbani, Sahar, **Tavakkol-Afshari, Jalil**, Jaafari, Mahmoud Reza, Ghaffari-Nazari, Haniyeh, Masoumi, Elham and Jalali, Seyed Amir. Improved Immunogenicity against a Her2/neu-Derived Peptide by Employment of a Pan HLA DR-Binding Epitope and CpG in a BALB/c Mice Model. Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry - Anti-Cancer Agents), Volume 17, Number 6, May **2017**, pp. 851-858(8).

Yassaei S, Aghili H, **Afshari JT**, Bagherpour A, Eslami F. Effects of diode laser (980 nm) on orthodontic tooth movement and interleukin 6 levels in gingival crevicular fluid in female subjects. Lasers Med Sci. 2016 Dec;31(9):1751-1759.

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 Tavakol 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 Tavakkol 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 Tavakol Afshari**, Ali Ghassemi, Mehdi Yaghobi4 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-Shandiz¹, Hassan Mehrad-Majd, Mojtaba Tasbandi, Amir Aledavood, **Jalil Tavakol 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.

Experiences of Faculty Members in Relation to the Academic Promotion Process. Hossein Karimi-Moonaghi, Akram Zhianifard, Hamid Jafarzadeh, Hamid Reza Behnam, **Jalil Tavakol Afshari**. Journal of Medical Education Development Center, 11(4):485-499, **2015**.

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- γ 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 Tavakkol 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 Tavakkol 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 Tavakkol 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- α and IL-1 β 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- κ B correlate with the inducing effects of IL-1 β and TNF- α 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 Badiiee, 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, 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.

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, 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. 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 , Hatef 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**, Saeideh Davoodi. Honey induces apoptosis in renal cell carcinoma. *Pharmacognosy Magazine* (2011) 7(25): 46-52.

Brook A, Homaie F, **Tavakkol Afshari J**, Ganjali R, Afzalalghaee 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. Ethanol 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 Rezaieyazdi, **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 Tavakol Afshari**, Mohhamad Taghae Shakeri, Mohhamad 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 Shirkani, 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 (HepG₂). Azad Islamic University Medical Journal. 1388, 19(3), 159-154 (Persian).

M Abbasi, Z Rezaie Yazdi, **J Tavakol Afshari**, M.R Hatef, 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., Rezaei Yazdi, Z., **Tavakkol Afshari, J.**, Hatef, MR., Sahebary, M. and Yarjanli, M. Vitamin D receptor polymorphism in patients with Systemic Lupus Erythomatosus. 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.

Shahrokhbabadi 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 Khaedaloui, 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 Perddod 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. Otroock, Olivier Hermine, Marwan El-Sabban and Ali Bazarbach. 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 supplementtation 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- α 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 adjacent 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 Vitamin 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 α -308 promoter 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 congenital 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 susceptibility to Rheumatoid Arthritis. APLAR Journal 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. Evalution 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 evalution 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- β 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., Omid, 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- β 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- β 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., Khosravy, 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., Esmaili, 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 β ⁺³⁹⁵⁴ 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 Safferon on hepatocellular carcinoma cell line. Proceedings of the 3rd 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 provience. Kosar Medical J. 2(7), 2002.

Tavakoli Afshari, J. and Liu, TZ. Rapid spectrophotometric methos 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 Khorsan –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.

Beijeh, N., Nazem, F., **Tavakol Afshari, J.** and Nejat-Shokohe, A. Compersion of inhibitory effect of eccentric and concentric exercise of atheletic women's immune system. Modaress 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 β 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 motifshared by the TCRVB 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.