

## Curriculum Vitae



### I. Personal details

- **First and family name:** Hossein Khorramdel Azad
- **Date and place of birth:** 01/09/1981, Rafsanjan, Iran
- **Citizenship:** Iran
- **Address:** No.19, Motahhari 45, Motahhari Street, Rafsanjan, Iran
- **Telephone:** +989021913002
- **E-mail address:** [Khorramdelazad@gmail.com](mailto:Khorramdelazad@gmail.com)
- **Academic E-mail:** h.khoramdel@rums.ac.ir
- **Current post:** Instructor Immunology, Faculty member
- **Education (schools completed, years of graduation, degrees awarded, professional qualifications):**
  - a) Ph.D. Student in Immunology, September 2019-present (1th Rank of Entrance Exam)  
Department of Immunology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran
  - b) Master of Science in Immunology 2013-2014  
Department of Microbiology and Immunology, Faculty of Medicine, Rafsanjan University of Medical Sciences, Rafsanjan, Iran  
G.P.A: 19.02/20, Thesis grade: 20/20 (Excellent grade A+)
  - c) Bachelor of Science in Medical Laboratory Science 2006-2008  
Faculty of Medical Science, Kerman University, Iran  
G.P.A: 14.96 /20
  - d) Associated degree in Medical Laboratory Science 2004-2006  
Faculty of Medical Science, Rafsanjan University, Iran  
G.P.A: 16.04/20
  - e) Pre-university course (1 year)
  - f) Elementary school, Middle school, and High school (12 years)

- **Language skills:** IELTS overall score 6 (Listening: 5.5 Reading: 6 Writing: 5.5 Speaking: 6)  
8 July 2017 to 8 July 2019. Candidate Number: 004972
- **Employment history:**  
2017-present, Instructor Immunology, Faculty Member, Rafsanjan University of Medical Sciences, Rafsanjan, Iran  
2010-2016, as a supervisor at the Molecular Medicine Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran  
2007- 2010, Technician at Farvardin and Masoud Medical Laboratory, Tehran-Iran

## II. Research

- **Major research fields:** Cytokine and Chemokine Biology, Neuroimmunology
- **H-index:** 16
- **List of publications:**

### Original and Review Articles [1-50] [51-68]:

- [1] M.K. Arababadi, R. Mosavi, H. Khorramdelazad, N. Yaghini, E.R. Zarandi, M. Araste, R. Pournali, Z. Nekhei, D. Kennedy, Cytokine patterns after therapy with Avonex®, Rebif®, Betaferon® and CinnoVex™ in relapsing–remitting multiple sclerosis in Iranian patients, *Biomarkers in Medicine*, 4 (2010) 755-759.
- [2] R. Derakhshan, M.K. Arababadi, Z. Ahmadi, M.N. Karimabad, V.A. Salehabadi, M. Abedinzadeh, H. Khorramdelazad, P. Balaei, D. Kennedy, G. Hassanshahi, Increased circulating levels of SDF-1 (CXCL12) in type 2 diabetic patients are correlated to disease state but are unrelated to polymorphism of the SDF-1 $\beta$  gene in the Iranian population, *Inflammation*, 35 (2012) 900-904.
- [3] H. Azin, R. Vazirinejad, B.N. Ahmadabadi, H. Khorramdelazad, E.R. Zarandi, M.K. Arababadi, M.N. Karimabad, A. Shamsizadeh, H. Rafatpanah, G. Hassanshahi, The SDF-1 3' a genetic variation of the chemokine SDF-1 $\alpha$  (CXCL12) in parallel with its increased circulating levels is associated with susceptibility to MS: a study on Iranian multiple sclerosis patients, *Journal of Molecular Neuroscience*, 47 (2012) 431-436.
- [4] S. Assar, M. Kazemi Arababadi, M. Mohit, B. Nasiri Ahmadabadi, P. Pumpens, H. Khorramdelazad, M. Hajghani, S. Assar, M. Araste, Z. Nekhei, T helper and B cell escape mutations within the HBc gene in patients with asymptomatic HBV infection: a study from the South-Eastern region of Iran, *Clinical laboratory*, 58 (2012) 53.
- [5] F. Aminzadeh, Z. Ghorashi, S. Nabati, M. Ghasemshirazi, M.K. Arababadi, A. Shamsizadeh, M.N. Karimabad, H. Khorramdelazad, S. Darakhshan, G. Hassanshahi, Differential Expression of CXC Chemokines CXCL 10 and CXCL 12 in Term and Pre-term Neonates and Their Mothers, *American Journal of Reproductive Immunology*, 68 (2012) 338-344.
- [6] B.K. Khandany, G. Hassanshahi, H. Khorramdelazad, Z. Balali, A. Shamsizadeh, M.K. Arababadi, H. Ostadebrahimi, A. Fatehi, M. Rezazadeh, Z. Ahmadi, Evaluation of circulating concentrations of CXCL1

(Gro- $\alpha$ ), CXCL10 (IP-10) and CXCL12 (SDF-1) in ALL patients prior and post bone marrow transplantation, *Pathology-Research and Practice*, 208 (2012) 615-619.

[7] H. Khorramdelazad, G. Hassanshahi, B.N. Ahmadabadi, M.K. Arababadi, High serum levels of TGF- $\beta$  in Iranians with chronic HBV infection, *Hepatitis monthly*, 12 (2012).

[8] M. Radman, G. Hassanshahi, R. Vazirinejad, M.K. Arababadi, M.N. Karimabad, H. Khorramdelazad, H. Rafatpanah, F. Iranmanesh, E. Hakimzadeh, Z. Ahmadi, Serum levels of the CC chemokines CCL2, CCL5, and CCL11 in food allergic children with different clinical manifestations, *Inflammation*, 36 (2013) 561-566.

[9] S.R. Moosavi, H. Khorramdelazad, M. Amin, S. Fatahpoor, M. Moogooei, M.N. Karimabad, M.J. Paghale, A. Vakilian, G. Hassanshahi, The SDF-1 3'A genetic variation is correlated with elevated intra-tumor tissue and circulating concentration of CXCL12 in glial tumors, *Journal of Molecular Neuroscience*, 50 (2013) 298-304.

[10] F. Ayoobi, G. Hassanshahi, N. Zainodini, H. Khorramdelazad, M.K. Arababadi, D. Kennedy, Reduced expression of TRIF in chronic HBV infected Iranian patients, *Clinics and research in hepatology and gastroenterology*, 37 (2013) 491-495.

[11] N. Zainodini, G. Hassanshahi, M. Kazemi Arababadi, H. Khorramdelazad, A. Mirzaei, Differential expression of CXCL1, CXCL9 CXCL10 and CXCL12 chemokines in alopecia areata, *Iranian Journal of Immunology*, 10 (2013) 40-46.

[12] H. Khorramdelazad, E. Hakimzadeh, G. Hassanshahi, M. Rezaei, H. Sendi, M.K. Arababadi, CCR5  $\Delta$  32 mutation is not prevalent in Iranians with chronic HBV infection, *Journal of medical virology*, 85 (2013) 964-968.

[13] S.H. Abdollahi, F. Ayoobi, H. Khorramdelazad, G. Hassanshahi, B.N. Ahmadabadi, M. Rezaei, A. Ravary, A. Shamsizadeh, M.K. Arababadi, Interleukin-10 serum levels after vaccination with in vivo prepared *Toxoplasma gondii* excreted/secreted antigens, *Oman medical journal*, 28 (2013) 112.

[14] E. Hakimzadeh, A. Shamsizadeh, M. Nazari, M.K. Arababadi, M. Rezaei, R. Vazirinejad, Z. Jamali, N.M. Poor, H. Khorramdelazad, S. Darakhshan, Increased circulating levels of CXC chemokines is correlated with duration and complications of the disease in type-1 diabetes: a study on Iranian diabetic patients, *Clin Lab*, 59 (2013) 531-537.

[15] H. Rafatpanah, M. Amin, M. Ghasemshirazi, M. Kazemiarababadi, H. Khorramdelazad, H. Abousaidi, Z. Shabani, A. Sayadi, G. Hassanshahi, J. Samadi, The SDF-1 $\alpha$ 3' A Genetic Variation Is Correlated with Susceptibility of Asthma in Iranian Patients, *BioMed research international*, 2013 (2013).

[16] S.M.A. Sajadi, V. Mirzaei, G. Hassanshahi, H. Khorramdelazad, H.Y. Daredor, S.M.H. Hosseini, M. Moogooei, A. Ravary, M.K. Arababadi, D. Kennedy, Decreased Expressions of Toll-Like Receptor 9 and Its Signaling Molecules in Chronic Hepatitis B Virus-Infected Patients, *Archives of Pathology and Laboratory Medicine*, 137 (2013) 1674-1679.

[17] A.R. Sharifabadi, G. Hassanshahi, S.R. Ghalebi, M.K. Arababadi, H. Khorramdelazad, N. Zainodini, Z. Shabani, All eotaxins CCL11, CCL24 and CCL26 are increased but to various extents in pulmonary tuberculosis patients, *Clinical laboratory*, 60 (2014) 93-97.

[18] H. Ostadebrahimi, Z. Jamali, M. Nazari, M. Bahri, Z. Farahmandnia, B.K. Khandany, M. Taheri, H. Khorramdelazad, E. Hakimzadeh, F. Zaker, CXC chemokines CXCL1, CXCL9, CXCL10 and CXCL12 are variably expressed in patients with sickle cell disease and carriers: are they predictive tools for disease complications, *Clin Lab*, 60 (2014) 99-104.

[19] H. Khorramdelazad, G. Hassanshahi, M.K. Arababadi, Controversial issues regarding the roles of IL-10 and IFN- $\gamma$  in active/inactive chronic hepatitis B, *World journal of gastrointestinal pathophysiology*, 5 (2014) 120.

[20] H. Khorramdelazad, Y. Mortazavi, M. Momeni, M.K. Arababadi, B.K. Khandany, M. Moogooei, G. Hassanshahi, Lack of correlation between the CCR5- $\Delta$ 32 mutation and acute myeloid leukemia in Iranian patients, *Indian Journal of Hematology and Blood Transfusion*, 31 (2015) 29-31.

- [21] H. Hakimi, N. Zainodini, H. Khorramdelazad, M.K. Arababadi, G. Hassanshahi, Seminal levels of pro-inflammatory (CXCL1, CXCL9, CXCL10) and homeostatic (CXCL12) chemokines in men with asymptomatic Chlamydia trachomatis infection, *Jundishapur journal of microbiology*, 7 (2014).
- [22] H. Khorramdelazad, V. Bagheri, G. Hassanshahi, H. Karami, M. Moogooei, M. Zeinali, M. Abedinzadeh, S100A12 and RAGE expression in human bladder transitional cell carcinoma: a role for the ligand/RAGE axis in tumor progression?, *Asian Pacific journal of cancer prevention: APJCP*, 16 (2015) 2725-2729.
- [23] S.H. Abdollahi, F. Ayoobi, H. Khorramdelazad, B.N. Ahmadabadi, M. Rezayati, M.K. Arababadi, M. Zare-Bidaki, Levels of transforming growth factor-beta after immunization of mice with in vivo prepared Toxoplasma gondii excretory/secretory proteins, *Jundishapur journal of microbiology*, 8 (2015).
- [24] M. Mobini, S. Mirzaie, H. Khorramdelazad, N. Zainodini, Z. Sabzali, M. Ghyasi, M. Mokhtari, R. Bahramabadi, H. Hakimi, K. Ghorban, Association of cord blood levels of IL-17A, but not TGF- $\beta$  with pre-term neonate, *Iranian journal of reproductive medicine*, 13 (2015) 345.
- [25] M. Zeinali, A. Adelinik, S. Papian, H. Khorramdelazad, M. Abedinzadeh, Role of galectin-3 in the pathogenesis of bladder transitional cell carcinoma, *Human Immunology*, 76 (2015) 770-774.
- [26] J. Fathalizadeh, V. Bagheri, H. Khorramdelazad, M. Kazemi Arababadi, A. Jafarzadeh, M. Mirzaei, A. Shamsizadeh, M. Hajizadeh, Induction of apoptosis by pistachio (*Pistacia vera* L.) hull extract and its molecular mechanisms of action in human hepatoma cell line HepG2, *Cell. Mol. Biol*, 61 (2015) 128-134.
- [27] M. Moogooei, M. Shamaei, H. Khorramdelazad, S. Fattahpour, S.M. Seyedmehdi, M. Moogooei, G. Hassanshahi, B.K. Khandani, The intricate expression of CC chemokines in glial tumors: evidence for involvement of CCL2 and CCL5 but not CCL11, *Acta Medica Iranica*, (2015) 770-777.
- [28] H. Khorramdelazad, V. Bagheri, G. Hassanshahi, M. Zeinali, A. Vakilian, New insights into the role of stromal cell-derived factor 1 (SDF-1/CXCL12) in the pathophysiology of multiple sclerosis, *Journal of neuroimmunology*, 290 (2016) 70-75.
- [29] V. Bagheri, G. Hassanshahi, M. Zeinali, M. Abedinzadeh, H. Khorramdelazad, Elevated levels of S100A12 in the seminal plasma of infertile men with varicocele, *International urology and nephrology*, 48 (2016) 343-347.
- [30] Z. Ahmadi, G. Hassanshahi, H. Khorramdelazad, N. Zainodini, L. Koochakzadeh, An overlook to the characteristics and roles played by eotaxin network in the pathophysiology of food allergies: allergic asthma and atopic dermatitis, *Inflammation*, 39 (2016) 1253-1267.
- [31] V. Bagheri, G. Hassanshahi, V. Mirzaee, H. Khorramdelazad, CXC chemokine CXCL12 tissue expression and circulating levels in peptic ulcer patients with Helicobacter pylori infection, *Cytokine*, 85 (2016) 1-4.
- [32] M. Zeinali, A. Hadian Amree, H. Khorramdelazad, H. Karami, M. Abedinzadeh, Inflammatory and anti-inflammatory cytokines in the seminal plasma of infertile men suffering from varicocele, *Andrologia*, 49 (2017) e12685.
- [33] A. Vakilian, H. Khorramdelazad, P. Heidari, Z.S. Rezaei, G. Hassanshahi, CCL2/CCR2 signaling pathway in glioblastoma multiforme, *Neurochemistry international*, 103 (2017) 1-7.
- [34] V.T. Ferdousie, M. Mohammadi, G. Hassanshahi, H. Khorramdelazad, S.K. Falahati-pour, M. Mirzaei, M.A. Tavakoli, Z. Kamiab, Z. Ahmadi, R. Vazirinejad, Serum CXCL10 and CXCL12 chemokine levels are associated with the severity of coronary artery disease and coronary artery occlusion, *International journal of cardiology*, 233 (2017) 23-28.
- [35] M. Nemati, T. Larussa, H. Khorramdelazad, M. Mahmoodi, A. Jafarzadeh, Toll-like receptor 2: An important immunomodulatory molecule during Helicobacter pylori infection, *Life sciences*, 178 (2017) 17-29.
- [36] M.N. Karimabad, M. Mahmoodi, A. Jafarzadeh, A. Darehkordi, M.R. Hajizadeh, H. Khorramdelazad, S.K. Falahati-pour, G. Hassanshahi, The novel Indole-3-formaldehyde (2-AITFEI-3-F) is involved in processes of apoptosis induction?, *Life sciences*, 181 (2017) 31-44.

- [37] M.N. Karimabad, M. Mahmoodi, A. Jafarzadeh, A. Darehkordi, M.R. Hajizadeh, H. Khorramdelazad, A.R. Sayadi, F. Rahmani, G. Hassanshahi, Evaluating of OCT-4 and NANOG was differentially regulated by a new derivative indole in leukemia cell line, *Immunology letters*, 190 (2017) 7-14.
- [38] F. Fatehi, M. Mollahosseini, G. Hassanshahi, S.K. Falahati-Pour, H. Khorramdelazad, Z. Ahmadi, M.N. Karimabad, H. Farahmand, CC chemokines CCL2, CCL3, CCL4 and CCL5 are elevated in osteoporosis patients, *Journal of biomedical research*, 31 (2017) 468-470.
- [39] A. Nazari, H. Khorramdelazad, G. Hassanshahi, Biological/pathological functions of the CXCL12/CXCR4/CXCR7 axes in the pathogenesis of bladder cancer, *International journal of clinical oncology*, 22 (2017) 991-1000.
- [40] A. Nazari, H. Khorramdelazad, G. Hassanshahi, A.S. Day, A.M. Sardoo, E.T. Fard, M. Abedinzadeh, A.E. Nadimi, S100A12 in renal and cardiovascular diseases, *Life sciences*, 191 (2017) 253-258.
- [41] M. Nemati, N. Malla, M. Yadav, H. Khorramdelazad, A. Jafarzadeh, Humoral and T cell-mediated immune response against trichomoniasis, *Parasite immunology*, 40 (2018) e12510.
- [42] S. Behfar, G. Hassanshahi, A. Nazari, H. Khorramdelazad, A brief look at the role of monocyte chemoattractant protein-1 (CCL2) in the pathophysiology of psoriasis, *Cytokine*, 110 (2018) 226-231.
- [43] M. Khorramdelazad, I. Bar, P. Whatmore, G. Smetham, V. Bhaaskaria, Y. Yang, S.H. Bai, N. Mantri, Y. Zhou, R. Ford, Transcriptome profiling of lentil (*Lens culinaris*) through the first 24 hours of *Ascochyta lentis* infection reveals key defence response genes, *BMC genomics*, 19 (2018) 108.
- [44] R. Ahangar-Parvin, M. Mohammadi-Kordkhayli, S.V. Azizi, M. Nemati, H. Khorramdelazad, Z. Taghipour, Z. Hassan, S.M. Moazzeni, A. Jafarzadeh, The Modulatory Effects of Vitamin D on the Expression of IL-12 and TGF- $\beta$  in the Spinal Cord and Serum of Mice with Experimental Autoimmune Encephalomyelitis, *Iranian journal of pathology*, 13 (2018) 10.
- [45] V. Bagheri, H. Khorramdelazad, G. Hassanshahi, A. Moghadam-Ahmadi, A. Vakilian, CXCL12 and CXCR4 in the Peripheral Blood of Patients with Parkinson's Disease, *Neuroimmunomodulation*, 25 (2018) 201-205.
- [46] A. Moghadam-Ahmadi, H. Khorramdelazad, G. Hassanshahi, S. Shahsavari, A. Moadab, A. Vakilian, Eotaxins and C-C chemokine receptor type 3 in Parkinson's disease, *Acta Neurologica Belgica*, (2018) 1-6.
- [47] Z. Sheikhezadei, P. Heydari, A. Farsinezhad, A. Fatemi, S.K. Falahati-Pour, S. Darakhshan, M.N. Karimabad, A. Darehkordi, H. Khorramdelazad, G. Hassanshahi, A new indole derivative decreased SALL4 gene expression in acute Promyelocytic leukemia cell line (NB4), *Iranian biomedical journal*, 22 (2018) 99.
- [48] Y. Taghavi, G. Hassanshahi, N.G. Kounis, I. Koniari, H. Khorramdelazad, Monocyte chemoattractant protein-1 (MCP-1/CCL2) in diabetic retinopathy: latest evidence and clinical considerations, *Journal of cell communication and signaling*, (2019) 1-12.
- [49] A. Jafarzadeh, M. Nemati, H. Khorramdelazad, Z.M. Hassan, Immunomodulatory properties of cimetidine: Its therapeutic potentials for treatment of immune-related diseases, *International immunopharmacology*, 70 (2019) 156-166.
- [50] M.K. Noroozi, M. Mahmoodi, A. Jafarzadeh, A. Darehkordi, M.R. Hajizadeh, H. Khorramdelazad, A.R. Sayadi, S.K. Falahati-Pour, G. Hassanshahi, Indole itself and its novel derivative affect PML cells proliferation via controlling the expression of cell cycle genes, *Cellular and molecular biology (Noisy-le-Grand, France)*, 65 (2019) 41-47.
- [51] G. Hassanshahi, M.K. Arababadi, H. Khorramdelazad, N. Yaghini, E.R. Zarandi, Assessment of CXCL12 (SDF-1 $\alpha$ ) polymorphisms and its serum level in posttransfusion occult HBV-infected patients in Southeastern Iran, *Archives of medical research*, 41 (2010) 338-342.
- [52] N. Yaghini, M. Mahmoodi, G. Asadikaram, G. Hassanshahi, H. Khorramdelazad, M.K. Arababadi, Serum levels of interleukin 10 (IL-10) in patients with type 2 diabetes, *Iranian Red Crescent Medical Journal*, 13 (2011) 752-753.
- [53] B.N. Ahmadabadi, G. Hassanshahi, H. Khorramdelazad, V. Mirzaei, S.M.A. Sajadi, M. Hajghani, H. Khodadadi, R. Pourali, M.K. Arababadi, D. Kennedy, Downregulation of CCR5 expression on the peripheral

blood CD8+ T cells of southeastern Iranian patients with chronic hepatitis B infection, *Inflammation*, 36 (2013) 136-140.

[54] S. Sajadi, H. Khoramdelazad, G. Hassanshahi, H. Rafatpanah, J. Hosseini, M. Mahmoodi, M.K. Arababadi, R. Derakhshan, R. Hasheminasabzavareh, S.-M. Hosseini-Zijoud, Plasma levels of CXCL1 (GRO-alpha) and CXCL10 (IP-10) are elevated in type 2 diabetic patients: evidence for the involvement of inflammation and angiogenesis/angiostasis in this disease state, *Clin Lab*, 59 (2013) 133-137.

[55] Z. Jamali, M. Nazari, H. Khoramdelazad, E. Hakimzadeh, M. Mahmoodi, M.N. Karimabad, G. Hassanshahi, M. Rezaeian, P. Balaei, S. Darakhshan, Expression of CC chemokines CCL2, CCL5, and CCL11 is associated with duration of disease and complications in type-1 diabetes: a study on Iranian diabetic patients, *Clin Lab*, 59 (2013) 993-1001.

[56] G. Asadikaram, S. Noroozi, H.A.E. Meimand, M. Sanjari, N. Zainodini, H. Khoramdelazad, N. Shahrokhi, M.K. Arababadi, Interferon- $\beta$  1a Modulates Expression of RAGE but Not S100A12 and Nuclear Factor- $\kappa$ B in Multiple Sclerosis Patients, *Neuroimmunomodulation*, 23 (2016) 345-351.

[57] H. Khorramdelazad, H. Rohani, A. Jafarzadeh, M. Hajizadeh, G. Hassanshahi, Role of S100A12/RAGE axis in eccentric exercise-induced delayed-onset muscle soreness in male non-athletes, *Sport Sciences for Health*, 11 (2015) 345-349.

[58] A. Nazari, G. Hassanshahi, H. Khorramdelazad, Elevated levels of epithelial neutrophil activating peptide-78 (ENA-78)(CXCL5) and Interleukin-1 $\beta$  is correlated with varicocele-caused infertility: A novel finding, *Middle East Fertility Society Journal*, 22 (2017) 333-335.

[59] M.N. Karimabad, H. Khoramdelazad, G. Hassanshahi, Genetic variation, biological structure, sources, and fundamental parts played by CXCL12 in pathophysiology of type 1 diabetes mellitus, *International Journal of Diabetes in Developing Countries*, 37 (2017) 229-239.

[60] A. Jafarzadeh, S.-V. Azizi, M. Nemat, H. Khoramdel-Azad, A. Shamsizadeh, F. Ayoobi, Z. Taghipour, Z.-M. Hassan, Ginger Extract Reduces the Expression of IL-17 and IL-23 in the Sera and Central Nervous System of EAEMice, *Iranian Journal of Immunology*, 12 (2015) 288-301.

[61] A. Nazari, A.M. Sardoo, E.T. Fard, H. Khorramdelazad, G. Hassanshahi, A.E. Nadimi, Plasma CXCL16 Level is Associated With Cardiovascular Disease in Iranian Hemodialysis Patients, *Biomedical and Pharmacology Journal*, 10 (2017) 01-07.

[62] A. Jafarzadeh, M. Mohammadi-Kordkhayli, R. Ahangar-Parvin, V. Azizi, H. Khoramdel-Azad, A. Shamsizadeh, A. Ayoobi, M. Nemat, Z. Hassan, S. Moazeni, Ginger extracts influence the expression of IL-27 and IL-33 in the central nervous system in experimental autoimmune encephalomyelitis and ameliorates the clinical symptoms of disease, *Journal of neuroimmunology*, 276 (2014) 80-88.

[63] A. Jafarzadeh, M. Nemat, M.T. Rezayati, H. Khoramdel, M. Nabizadeh, G. Hassanshahi, H. Abdollahi, Lower circulating levels of chemokine CXCL10 in Helicobacter pylori-infected patients with peptic ulcer: Influence of the bacterial virulence factor CagA, *Iranian journal of microbiology*, 5 (2013) 28.

[64] M.M. Khorasani, P. Andam-Shahsavari, N. Zainodini, H. Khoramdelazad, R. Nosratabadi, Association of S100 calcium-binding protein A12, receptor for advanced glycation endproducts, and nuclear factor- $\kappa$ B expression with inflammation in pulp tissues from tooth caries, *Journal of investigative and clinical dentistry*, 9 (2018) e12290.

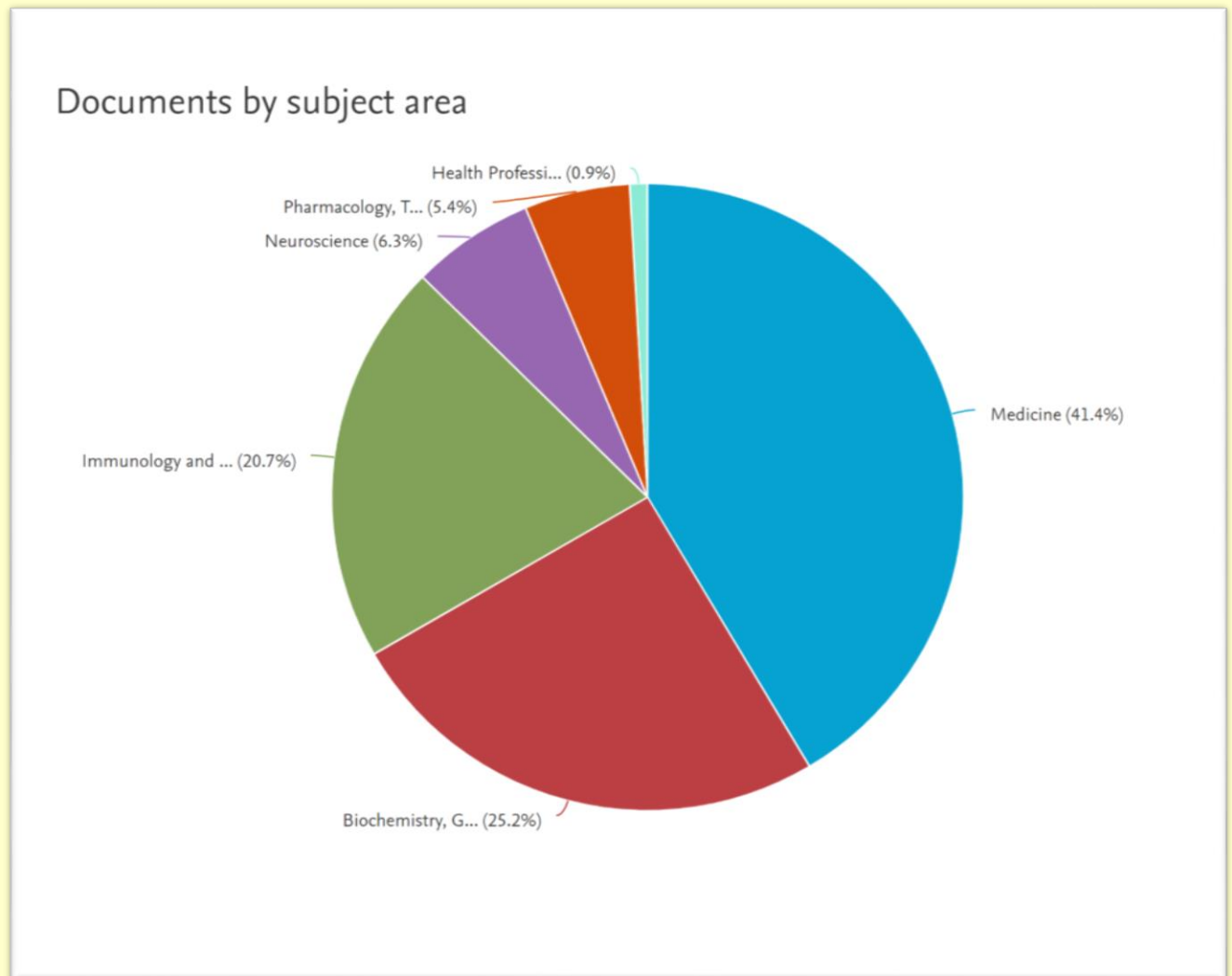
[65] A. Jafarzadeh, M. Nemat, H. Khorramdelazad, A. Mirshafiey, The Toll-like Receptor 2 (TLR2)-related Immunopathological Responses in the Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis, *Iranian Journal of Allergy, Asthma and Immunology*, (2019).

[66] A. Jafarzadeh, M. Nemat, I. Sharifi, A. Nair, D. Shukla, P. Chauhan, H. Khorramdelazad, A. Sarkar, B. Saha, Leishmania species-dependent functional duality of toll-like receptor 2, *IUBMB life*, (2019).

[67] A. Vakilian, J. Masoumi, S. Mirzaee, H. Khorramdelazad, Expression analysis of beta-secretase 1 (BACE1) enzyme in peripheral blood of patients with Alzheimer's disease, *Caspian Journal of Internal Medicine*, 10 (2019) 276.



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## Books

1. Immunopathogenesis of Multiple Sclerosis disease (2018, In Persian)
2. Assessment of gene expression by Real-time PCR (Syber green) technique (2017, In Persian)

## • Awards:

1. 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2013
2. 2st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2014
3. 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2015

4. 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2016
5. 1st Rank Ph.D. Student. Iran University of Medical Sciences 2019

- **Other research-related contribution:**

**Conference participation:**

1. Khorramdelazad H, "Lack of association between CCR5- $\Delta$ 32 mutation and acute lymphoblastic leukemia: a study from south-eastern of Iran". 11th International Congress of Immunology & allergy Tehran-Iran April 2012
2. Khorramdelazad H, "The status of regulated on activation normal T cell expressed and secreted (RANTES) and interleukin 6 serum levels in nephropathies type 2 diabetic patients". 11th International Congress of Immunology & allergy Tehran-Iran April 2012
3. Khorramdelazad H, "The CXC Chemokine CXCL12 tissue expression and circulating levels in patients suffering from induced peptic ulcer follows a phase-dependent fashion?" 6th International Congress of Laboratory & Clinic Tehran-Iran Feb 2014
4. Khorramdelazad H, "HIGH SERUM LEVELS OF TGF- $\beta$ IN IRANIANS WITH CHRONIC HBV INFECTION". 5th International Congress of Tehran Hepatitis, Tehran Iran May 2014
5. Khorramdelazad H, "Role of the eccentric exercise-induced delayed-onset muscle soreness effects on the regulation of the expression of S100A12, RAGE, and NF $\kappa$ B". 11th International Congress of Immunology & allergy, May 2014, Tehran-Iran
6. Khorramdelazad H, "The CCL5/CCR5 axis itself, but its CCR5 - $\Delta$ 32 variant is involved in both T1D and T2D and also nephropathies complications of T2D" 11th International Congress of Immunology & allergy. May 2014, Tehran-Iran
7. Khorramdelazad H, "Differential pattern of eotaxins (CCL11, CCL24, CCL26) and CCR3 expression in Iranian Parkinson's patients" 14th International Congress of Immunology & allergy. April 2018, Tehran-Iran (Oral Presentation)

**Workshops attended:**

1. Quality control in Microbiology, Kerman-Iran, April 2009.
2. SPSS workshop, Physiology and pharmacology research center, Rafsanjan-Iran 2013
3. Computational Genomics, 4th International Tehran Hepatitis congress. Tehran, Iran 2011
4. Experiences in the Journal of Viral Hepatitis for Editors and how to write a good paper, 4th International Tehran Hepatitis congress. Tehran, Iran 2011
5. Instructor, Primer design workshop, Rafsanjan University of Medical Sciences, 2014
6. Real-time PCR and Epigenetic. Pasteur Institute of Iran, 2014
7. microRNA, Biosynthesis and function-stem loop primer design 2018



8. Dendritic cell-based vaccines for cancer immunotherapy: an experimental model 2018
9. Advanced practical-surgical techniques in dealing with laboratory animals 2018
10. Entrepreneurship and wealth creation, Iran University of Medical Sciences 2019
11. Big Bang Boot Camp (Health Startups), Iran University of Medical Sciences 2019

### **III. Further professional training**

1. DNA and RNA extraction from all cell and tissue systems
2. PCR, RFLP
3. Real-time PCR
4. Western blotting
5. Isolation of peripheral blood mononuclear cells
6. ELISA
7. Clinical and diagnostic laboratory techniques
8. Primer design (PCR/RT-PCR/miRNA)
9. Flowcytometry (Cyflow, Partec, Germany)
10. Experience in software such as Gene runner, Flowmax, Oligo7, Endnote, Adobe Photoshop, Corel Draw, Microsoft Office, Graph pad Prism, and Primer Express.
11. Professional design of review articles diagrams and figures. (Sample: My latest article, PMID: 29277337)

### **IV. General contribution**

- Teaching immunology
- Teaching molecular techniques to postgraduate students
- Design of project (collaborate with other departments)
- Troubleshooting in different techniques used in postgraduate students thesis
- Contribution to the different approved project in molecular Medicine Research Center

### **V. Interests**

- Research
- Sport (fitness and physique): Men's Physique Athlete
- Art (digital graphic design)

### **VI. References**

- Prof. Gholamhossein Hassanshahi, [ghassanshahi@Gmail.com](mailto:ghassanshahi@Gmail.com)
- Prof. Abdollah Jafarzadeh, [Jafarzadeh14@yahoo.com](mailto:Jafarzadeh14@yahoo.com)

**Hossein Khorramdel Azad**