

# Curriculum Vitae

## April 2024



### Hossein Khorramdelazad, (Ph.D.)

#### 1. Personal details:

- Date and place of birth: 01/09/1981, Rafsanjan, Iran
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#### 2. Education:

##### • **Ph.D. in Immunology**

- 2019-2023 (Holder of the first rank in the Ph.D. program entrance examination in Iran, 2019)
- Department of Immunology, School of Medicine, Iran University of Medical Sciences, Tehran, Iran.
- G.P.A: 19.32/20
- Thesis grade: 20/20 (Excellent grade A+)

##### • **Master of Science in Immunology**

- 2013-2014
- Department of Immunology, Faculty of Medicine, Rafsanjan University of Medical Sciences, Rafsanjan, Iran
- G.P.A: 19.02/20
- Thesis grade: 20/20 (Excellent grade A+)

##### • **Bachelor of Science in Medical Laboratory Science**

- 2006-2008
- Faculty of Medical Science, Kerman University, Iran
- G.P.A: 14.96 /20

##### • **Associated degree in Medical Laboratory Science**

- 2004-2006
- Faculty of Medical Science, Rafsanjan University, Iran
- G.P.A: 16.04/20

### 3. Employment history:

- 2017-present, Instructor/Assistant Professor of Immunology, Faculty Member, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
- 2008-2016, as a supervisor at the Molecular Medicine Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran

### 4. Current Position:

- Assistant Professor of Immunology, Faculty Member, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.

### 5. Honors:

- Holder of the 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2013
- Holder of the 2nd Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2014
- Holder of the 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2015
- Holder of the 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2016
- Holder of the first rank in the Ph.D. program entrance examination in Iran 2019
- Holder of the 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2020
- Holder of the 1st Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2021
- Holder of the 2nd Rank Researcher. Rafsanjan University of Medical Sciences Festival Award 2023

## 6. Bibliography

### A. Publications:

1. Najafi, A., et al., *Catalase application in cancer therapy: Simultaneous focusing on hypoxia attenuation and macrophage reprogramming*. *Biomedicine & Pharmacotherapy*, 2022. **153**: p. 113483.
2. Ranjbar, M., et al., *Role of CCL2/CCR2 axis in the pathogenesis of COVID-19 and possible Treatments: All options on the Table*. *International Immunopharmacology*, 2022. **113**: p. 109325.
3. Hashemi, S.F. and H. Khorramdelazad, *The cryptic role of CXCL17/CXCR8 axis in the pathogenesis of cancers: a review of the latest evidence*. *Journal of Cell Communication and Signaling*, 2022: p. 1-14.
4. Khorramdelazad, H., et al., *Type-I interferons in the immunopathogenesis and treatment of Coronavirus disease 2019*. *European journal of pharmacology*, 2022: p. 175051.
5. Masoumi, M., et al., *Role of T Cells in the Pathogenesis of Rheumatoid Arthritis: Focus on Immunometabolism Dysfunctions*. *Inflammation*, 2022: p. 1-15.

6. Ahmadifard, R., et al., *Interferon- $\gamma$ -Treated Mesenchymal Stem Cells Modulate the T Cell-Related Chemokines and Chemokine Receptors in an Animal Model of Experimental Autoimmune Encephalomyelitis*. Drug Research, 2023.
7. Masoumi, M., et al., *Immunometabolism Dysfunction in the Pathophysiology and Treatment of Rheumatoid Arthritis*. Current Medicinal Chemistry, 2023.
8. Kazemi, M.H., et al., *Tumor-infiltrating lymphocytes for treatment of solid tumors: It takes two to tango?* Frontiers in Immunology, 2022. **13**.
9. Arababadi, M.K., et al., *Cytokine patterns after therapy with Avonex<sup>®</sup>, Rebif<sup>®</sup>, Betaferon<sup>®</sup> and CinnoVex<sup>™</sup> in relapsing–remitting multiple sclerosis in Iranian patients*. Biomarkers in Medicine, 2010. **4**(5): p. 755-759.
10. Hassanshahi, G., et al., *Assessment of CXCL12 (SDF-1 $\alpha$ ) polymorphisms and its serum level in posttransfusion occult HBV-infected patients in Southeastern Iran*. Archives of medical research, 2010. **41**(5): p. 338-342.
11. Derakhshan, R., et al., *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, 2012. **35**(3): p. 900-904.
12. Aminzadeh, F., et al., *Differential Expression of CXC Chemokines CXCL 10 and CXCL 12 in Term and Pre-term Neonates and Their Mothers*. American Journal of Reproductive Immunology, 2012. **68**(4): p. 338-344.
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14. Khandany, B.K., et al., *Evaluation of circulating concentrations of CXCL1 (Gro- $\alpha$ ), CXCL10 (IP-10) and CXCL12 (SDF-1) in ALL patients prior and post bone marrow transplantation*. PathologyResearch and Practice, 2012. **208**(10): p. 615-619.
15. Arababadi, M.K., et al., *Cytokines in preterm delivery*. Laboratory Medicine, 2012. **43**(4): p. 27-30.
16. Sajadi, S., et al., *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, 2013. **59**(1-2): p. 133-7.
17. Sajadi, S.M.A., et al., *Decreased expressions of toll-like receptor 9 and its Signaling molecules in chronic hepatitis B virus–infected patients*. Archives of Pathology and Laboratory Medicine, 2013. **137**(11): p. 1674-1679.
18. Jamali, Z., et al., *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, 2013. **59**(9-10): p. 993-1001.
19. Moosavi, S.R., et al., *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, 2013. **50**(2): p. 298-304.
20. Radman, M., et al., *Serum levels of the CC chemokines CCL2, CCL5, and CCL11 in food allergic children with different clinical manifestations*. Inflammation, 2013. **36**(3): p. 561-566.
21. Khorramdelazad, H., et al., *CCR5  $\Delta$  32 mutation is not prevalent in Iranians with chronic HBV infection*. Journal of medical virology, 2013. **85**(6): p. 964-968.
22. Jafarzadeh, A., et al., *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, 2014. **276**(1-2): p. 80-88.
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  32. Zeinali, M., et al., *Inflammatory and anti-inflammatory cytokines in the seminal plasma of infertile men suffering from varicocele*. Andrologia, 2017. **49**(6): p. e12685.
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## 2023/2024 Published Articles

- Razizadeh MH, Zafarani A, Taghavi-Farahabadi M, Khorramdelazad H, Minaeian S, Mahmoudi M. Natural killer cells and their exosomes in viral infections and related therapeutic approaches: where are we? *Cell Communication and Signaling*. 2023;21(1):261.
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Chemokines and Chemokine Receptors in an Animal Model of Experimental Autoimmune Encephalomyelitis. *Drug Research*. 2023;73(04):213-23.

- Rezagholizadeh F, Tajik F, Talebi M, Taha SR, Zadeh MS, Farhangnia P, et al. Unraveling the potential of CD8, CD68, and VISTA as diagnostic and prognostic markers in patients with pancreatic ductal adenocarcinoma. 2024.
- Hazrati A, Malekpour K, Khorramdelazad H, Rajaei S, Hashemi SM. Therapeutic and immunomodulatory potentials of mesenchymal stromal/stem cells and immune checkpoints related molecules. *Biomarker Research*. 2024 Mar 21;12(1):35.
- Moadab A, Valizadeh MR, Nazari A, Khorramdelazad H. Association of interleukin-17A and chemokine/vascular endothelial growth factor-induced angiogenesis in newly diagnosed patients with bladder cancer. *BMC immunology*. 2024 Mar 21;25(1):20.

## **B. Published Books:**

- Assessment of gene expression by Real-time PCR (Syber green) technique (2017, In Persian)
- Immunopathogenesis of Multiple Sclerosis disease (2018, In Persian)
- Unleashing the Potential of Natural Killer Cells in Immunotherapy for Glioblastoma and Brain Tumors (Springer, 2023)

## **C. Project in progress:**

- Evaluation of the inhibitory effect of a novel synthetic small molecule CXCR4 antagonist on proliferation and migration of colorectal tumor cells (CT-26) and immune responses in vitro and in vivo
- Evaluation of the interaction Between Tumor Growth Factor- $\beta$  and Interferon Type I Pathways in Patients with COVID-19: Focusing on ages 1 to 90 years
- Role of CCL2/CCR2 axis in the pathogenesis of COVID-19

## **7. Professional Participations:**

- Khorramdelazad H, “Lack of association between CCR5- $\Delta$ 32 mutation and acute lymphoblastic leukemia: a study from sought-eastern Iran”. 11th International Congress of Immunology & allergy Tehran-Iran April 2012
- 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
- 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
- Khorramdelazad H, “HIGH SERUM LEVELS OF TGF- $\beta$ 1N IRANIANS WITH CHRONIC HBV INFECTION.” 5th International Congress of Tehran Hepatitis, Tehran, Iran, May 2014

- Khorramdelazad H, “Role of the eccentric exercise-induced delayed-onset muscle soreness effects on the regulation of the expression of S100A12, RAGE, and NFκB”. 11<sup>th</sup> International Congress of Immunology & allergy, May 2014, Tehran-Iran
- Khorramdelazad H, “The CCL5/CCR5 axis itself, but its CCR5 –Δ32 variant is involved in both T1D and T2D and nephropathies complications of T2D” 11th International Congress of Immunology & allergy. May 2014, Tehran-Iran
- 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, TehranIran (Oral Presentation)
- Khorramdelazad H, “Assessing the Expression of Immunosuppressive Cytokines in the newly diagnosed Systemic Lupus Erythematosus Patients: A Focus on B cells” 15th International Congress of Immunology & allergy. January 2021, Ahwaz-Iran (Poster Presentation)
- Khorramdelazad H, The S100 Proteins Expression in Newly Diagnosed Systemic Lupus Erythematosus Patients: Can They be Potential Diagnostic Biomarkers? 15th International Congress of Immunology & allergy. January 2021, Ahwaz-Iran (Poster Presentation).

## 8. Workshops attended:

- Quality control in Microbiology, Kerman-Iran, April 2009.
- SPSS workshop, Physiology and pharmacology research center, Rafsanjan-Iran 2013
- Computational Genomics, 4th International Tehran Hepatitis congress. Tehran, Iran, 2011
- Experiences in the Journal of Viral Hepatitis for Editors and how to write a good paper, 4<sup>th</sup> International Tehran Hepatitis congress. Tehran, Iran, 2011
- Instructor, Primer design workshop, Rafsanjan University of Medical Sciences, 2014
- Real-time PCR and Epigenetic. Pasteur Institute of Iran, 2014
- microRNA, Biosynthesize and function-stem loop primer design 2018
- Dendritic cell-based vaccines for cancer immunotherapy: an experimental model 2018
- Advanced practical-surgical techniques in dealing with laboratory animals 2018
- Entrepreneurship and wealth creation, Iran University of Medical Sciences 2019
- Big Bang Boot Camp (Health Startups), Iran University of Medical Sciences 2019
- Ethics in research, Rafsanjan University of Medical Sciences 2020
- Ethics in research, Tehran University of Medical Sciences 2020
- CAR T-Cell Immunotherapy of Solid Tumors - Learning from the Clinic and Lab in Parallel, Labroots 2020
- A Novel Method for Quantitative Western Blotting that Eliminates Errors from the Use of Housekeeping Proteins, Labroots 2020
- Next generation ultra-high content analysis of the tumor immune microenvironment using MICS technology, Labroots 2020
- New Crossroad: The Intersection of COVID-19 and Sepsis, Labroots 2020
- laboratory animal handling technique, Qazvin University of Medical Sciences, 2020
- Scientific writing, USERN, 2021

- Introduction to basic statistics, USERN, 2021
- Systematic Review, USERN, 2021
- Meta-analysis, USERN, 2021
- Submission and Journal Selection, USERN, 2021
- Publishing books with international publishers, USERN 2021
- Second Advanced Academic Writing and English Editing Course, which was held virtually from March to April 2022, organized by Best Medical Academy in Iran
- Quality control in immunoserology laboratory, Kerman University of Medical Sciences 2023
- Ai application in research, Iran University of Medical Sciences, 2023

### **9. Webinar attended:**

- Cell Therapy in COVID-19, 2020 IUMS
- Vaccination in COVID-19, 2020 IUMS
- Quality control in medical laboratories, 2021 IUMS
- Thyroid panel tests, 2021 IUMS
- Antigen purification, 2022 IUMS
- Introduction to basic bioinformtic, 2022 TUMS

### **10. Further Professional Training:**

- DNA and RNA extraction from all cell and tissue systems
- PCR, RFLP
- Real-time PCR
- Western blotting
- Isolation of peripheral blood mononuclear cells
- ELISA
- Clinical and diagnostic laboratory techniques
- Primer design (PCR/RT-PCR/miRNA)
- Flowcytometry (Cyflow, Partec, Germany)
- Experience in software such as Gene Runner, Flowmax, Oligo7, Endnote, Adobe Photoshop, Adobe Illustrator, Corel Draw, Microsoft Office, Graphpad Prism, and Primer Express.
- Professional design of review articles, diagrams and figures (Sample: <https://doi.org/10.1016/j.biopha.2022.113483>)

### **11. General Contribution:**

- Teaching basic immunology to undergraduate and postgraduate students 2016-2018
- Teaching Advanced Immunology to postgraduate students, 2018
- Teaching Research Methods to Undergraduate Postgraduate Students 2018-2019
- Holding a workshop on primer design for Real-time PCR, 2015
- Holding a workshop on bioinformatic (Gene to protein) 2021

- Holding a workshop on Article preparation and submission, Iran University of Medical Sciences, 2023
- Holding a workshop on Scientific illustration, Iran University of Medical Sciences, 2023

## 12. Related professional experience:

- Bio-art design studio (2017-present)

## 13. Interests:

- Research (Inflammation, Cytokine & Chemokine biology, Autoimmunity, Inflammatory-induced Cancers)
- Sport (Fitness and Physique)
- Art (Digital Graphic Design, Cartoon, Sketching, Photography, Adobe Illustrator)
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## 14. References

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