

Doç. Dr. MAZDAK GANJALI KHANI HAKEMI

Kişisel Bilgiler

E-posta: mazdak.ganjali@medipol.edu.tr

Web: <https://avesis.medipol.edu.tr/mazdak.hakemi>

Uluslararası Araştırmacı ID'leri

ScholarID: lx-IRFsAAAAJ

ORCID: 0000-0002-4764-7616

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ScopusID: 54412107500

Biyografi

Mazdak obtained his BSc degree in Medical Laboratory Sciences from Iran University of Medical Sciences in 1999. Subsequently, he pursued his MSc in Medical Immunology at Tehran University of Medical Sciences, completing the program in 2002. In 2006, Mazdak commenced his PhD program in Medical Immunology at Isfahan University of Medical Sciences, with a specific focus on cellular and molecular immunology. During the course of his doctoral studies, he spent a sabbatical period at Ludwig-Maximilian University in Munich, Germany. He successfully defended his PhD thesis in 2011.

He commenced his academic journey as an assistant professor at Isfahan University of Medical Sciences in Iran in 2011. Over the years, his dedication and contributions led to his appointment as an associate professor, a position he held from 2017 to 2022 at the same institution. Seeking new horizons, he transitioned to Yeditepe University in Istanbul, serving as a guest professor for 10 months. Subsequently, he joined Istanbul Medipol University as a member of [SABITA](#), marking the beginning of his current responsibilities.

Throughout his professional tenure, he has been actively involved in teaching diverse courses on Immunology and related disciplines for both undergraduate and graduate students. An integral part of his academic portfolio includes supervising over 60 Ph.D. and M.Sc. theses, alongside the publication of more than 140 peer-reviewed scientific articles in esteemed international journals. In addition, he has successfully obtained three national patents and authored 20 books. His research focus primarily centers around molecular immunology, with a specialization in cancer and autoimmune disorders, reflecting his commitment to advancing knowledge and contributing to the understanding of these critical fields.

Araştırma Alanları

Yaşam Bilimleri, Temel Bilimler

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- TIM-3/Galectin-9 interaction and glutamine metabolism in AML cell lines, HL-60 and THP-1**
Shapourian H., Ghanadian M., Eskandari N., Shokouhi A., Demirel G. Y., Bazhin A. V., Ganjalikhani-Hakemi M.
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- Bioactive peptides: an alternative therapeutic approach for cancer management**

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- III. **PD-L1 stimulation can promote proliferation and survival of leukemic cells by influencing glucose and fatty acid metabolism in acute myeloid leukemia**
Soltani M., Ghanadian M., Ghezelbash B., Shokouhi A., Zamyatnin A. A., Bazhin A. V., Ganjalikhani-Hakemi M.
BMC Cancer, cilt.23, sa.1, 2023 (SCI-Expanded)
- IV. **Investigation of KIR/HLA relationship and other clinical variables after T-cell-replete haploidentical bone marrow transplantation in patients with acute myeloid leukemia (AML)**
Bakhtiari T., Ahmadvand M., Yaghmaie M., Sadeghi A., Mousavi S. A., Rostami T., Ganjalikhani-Hakemi M.
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- V. **TIM-3/Gal-9 interaction affects glucose and lipid metabolism in acute myeloid leukemia cell lines**
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- VI. **PD-1/PD-L1 Interaction Regulates BCL2, KI67, BAX, and CASP3, Altering Proliferation, Survival, and Apoptosis in Acute Myeloid Leukemia**
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- VII. **Morphology-Dependent Immunomodulatory Coating of Hydroxyapatite/PEO for Magnesium-Based Bone Implants**
Farshid S., Kharaziha M., Salehi H., Ganjalikhani Hakemi M.
ACS APPLIED MATERIALS & INTERFACES, cilt.15, sa.42, ss.48996-49011, 2023 (SCI-Expanded)
- VIII. **Non-infectious meningitis and CNS demyelinating diseases: A conceptual review**
Etemadifar M., Fereidan-Esfahani M., Sedaghat N., Kargaran P., Mansouri A., Abhari A., Aghababaei A., Jannesari A., Salari M., Ganjalikhani-Hakemi M., et al.
Revue Neurologique, cilt.179, sa.6, ss.533-547, 2023 (SCI-Expanded)
- IX. **Editorial: The immunosuppressive tumor microenvironment and strategies to revert its immune regulatory milieu for cancer immunotherapy**
Ganjalikhani Hakemi M., Yanikkaya Demirel G., Li Y., Jayakumar N.
Frontiers in Immunology, cilt.14, 2023 (SCI-Expanded)
- X. **The role of miRNAs from mesenchymal stem/stromal cells-derived extracellular vesicles in neurological disorders**
Jafarinia M., Farrokhi M. R., Ganjalikhani Hakemi M., Cho W. C.
Human Cell, cilt.36, sa.1, ss.62-75, 2023 (SCI-Expanded)
- XI. **The Influence of KIR Gene Polymorphisms and KIR-ligand Binding on Outcomes in Hematologic Malignancies following Haploidentical Stem Cell Transplantation: A Comprehensive Review**
Bakhtiari T., Ahmadvand M., Salmaninejad A., Ghaderi A., Yaghmaie M., Sadeghi A., Mousavi S. A., Rostami T., Ganjalikhani-Hakemi M.
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- XII. **Potential role of autophagy induced by FLT3-ITD and acid ceramidase in acute myeloid leukemia chemo-resistance: new insights**
Zalpoor H., Bakhtiyari M., Akbari A., Aziziyan F., Shapourian H., Liaghat M., Zare-Badie Z., Yahyazadeh S., Tarhriz V., Ganjalikhani-Hakemi M.
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- XIII. **Transplantation of human adipose-derived stem cells overexpressing LIF/IFN- β promotes recovery in experimental autoimmune encephalomyelitis (EAE)**
Yousefi M., Nabipour A., Ganjalikhani Hakemi M., Ashja-Arvan M., Amirpour N., Salehi H.
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- XIV. **Clinical Combinatorial Treatments Based on Cancer Vaccines: Combination with Checkpoint Inhibitors and Beyond**
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- XV. **Cancer Vaccine in Cold Tumors: Clinical Landscape, Challenges, and Opportunities**
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- XVI. **Flt3-ITD mutated acute myeloid leukemia patients and COVID-19: potential roles of autophagy and HIF-1 α in leukemia progression and mortality**
Zalpoor H., Rezaei M., Yahyazadeh S., Ganjalikhani-Hakemi M.
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- XVII. **Quercetin potential effects against SARS-CoV-2 infection and COVID-19-associated cancer progression by inhibiting mTOR and hypoxia-inducible factor-1 α (HIF-1 α)**
Zalpoor H., Bakhtiyari M., Liaghat M., Nabi-Afjadi M., Ganjalikhani-Hakemi M.
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- XVIII. **Molecular and immunochemical characterization of Pop n 2: A new allergen of Populus nigra pollen**
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- XIX. **Mrna-based cancer vaccines: A therapeutic strategy for the treatment of melanoma patients**
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- XX. **Cutting edge: Metabolic immune reprogramming, reactive oxygen species, and cancer**
Aria H., Ghaedrahmati F., Ganjalikhani-Hakemi M.
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- XXI. **Combinatorial delivery of antigen and TLR agonists via PLGA nanoparticles modulates Leishmania major-infected-macrophages activation**
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- XXII. **Anti-allergic effects of vitamin E in allergic diseases: An updated review**
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- XXIII. **Modulation of Th17 Proliferation and IL-17A Gene Expression by Acetylated Form of Apigenin in Patients with Multiple Sclerosis**
Rahmati M., Ghannadian S. M., Kasiri N., Ahmadi L., Motedayyen H., Shaygannejad V., Pourazar A., Alsahebfosoul F., Ganjalikhani Hakemi M., Eskandari N.
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- XXIV. **Computational study for suppression of CD25/IL-2 interaction**
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- XXV. **Liver Resection Promotes (Regulates) Proinflammatory Cytokines in Patients with Hepatocellular Carcinoma**
Fathi F., Sanei B., Ganjalikhani Hakemi M., Saidi R. F., Rezaei A.
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- XXVI. **"NMDA receptor spectrum disorder" in the differential diagnosis of demyelinating disorders of the CNS: optic neuritis and myelitis**
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- XXVII. **The Role of TIM-3 in Hepatocellular Carcinoma: A Promising Target for Immunotherapy?**
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- XXVIII. **Impact of IFN- β and LIF overexpression on human adipose-derived stem cells properties**
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Journal of Cellular Physiology, cilt.235, sa.11, ss.8736-8746, 2020 (SCI-Expanded)
- XXIX. **Therapeutic effects of extracellular vesicles from human adipose-derived mesenchymal stem cells on chronic experimental autoimmune encephalomyelitis**
Jafarina M., Alsahebhosoul F., Salehi H., Eskandari N., Azimzadeh M., Mahmoodi M., Asgary S., Ganjalikhani Hakemi M.
Journal of Cellular Physiology, cilt.235, sa.11, ss.8779-8790, 2020 (SCI-Expanded)
- XXX. **Mesenchymal Stem Cell-Derived Extracellular Vesicles: A Novel Cell-Free Therapy**
Jafarina M., Alsahebhosoul F., Salehi H., Eskandari N., Ganjalikhani-Hakemi M.
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- XXXI. **The immunoregulatory and neuroprotective effects of human adipose derived stem cells overexpressing IL-11 and IL-13 in the experimental autoimmune encephalomyelitis mice**
Azimzadeh M., Mahmoodi M., Kazemi M., Hakemi M., Jafarina M., Eslami A., Salehi H., Amirpour N.
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- XXXII. **Assessment of ability of human adipose derived stem cells for long term overexpression of IL-11 and IL-13 as therapeutic cytokines**
Eslami A., Dehbashi M., Ashja-Arvan M., Salehi H., Azimzadeh M., Ganjalikhani-Hakemi M.
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- XXXIII. **Knocking down of the DHFR-TS gene in Toxoplasma gondii using siRNA and assessing the subsequences on toxoplasmosis in mice**
Azimi-Resketi M., Eskandarian A., Ganjalikhani-Hakemi M., Zohrabi T.
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- XXXIV. **Quercetin with the potential effect on allergic diseases**
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- XXXV. **Induction of humoral immune responses and inhibition of metastasis in mice by a VEGF peptide-based vaccine**
Gharibdousti F. S., Gharibdousti F. S., Delshad B. F., Delshad B. F., Falak R., Shayanfar N., Hakemi M., Andalib A., Kardar G. A.
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- XXXVI. **Increased Expression of B Lymphocyte Induced Maturation Protein 1 (BLIMP1) in Patients with Common Variable Immunodeficiency (CVID)**
Farrokhi S., Abbasi-Rad F., Esmaeil N., Sherkat R., Yazdani R., Afshar-Ghasemlou S., Fekrvand S., Ganjalikhani-Hakemi M.
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- XXXVII. **Correlation of OX40 ligand on B cells with serum total IgE and IL-4 levels by CD4 + T cells in allergic rhinitis**
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- XXXVIII. **MicroRNA-92a Drives Th1 Responses in the Experimental Autoimmune Encephalomyelitis**
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- XXXIX. **The review of in vitro and in vivo studies over the glycyrrhizic acid as natural remedy option for treatment of allergic asthma**
Fouladi S., Masjedi M., Hakemi M., Eskandari N.
Iranian Journal of Allergy, Asthma and Immunology, cilt.18, sa.1, ss.1-11, 2019 (SCI-Expanded)
- XL. **Features and roles of T helper 9 cells and interleukin 9 in immunological diseases**
Yazdani R., Shapoori S., Rezaeepoor M., Sanaei R., Ganjalikhani-Hakemi M., Azizi G., Rae W., Aghamohammadi A., Rezaei N.
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- XLII. Increased IRF4 expression in isolated B cells from common variable immunodeficiency (CVID) patients**
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- XLIII. The In Vitro Impact of Glycyrrhizic Acid on CD4+ T Lymphocytes through OX40 Receptor in the Patients with Allergic Rhinitis**
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- XLIV. Impaired IL-12- and IL-23-Mediated Immunity Due to IL-12R β 1 Deficiency in Iranian Patients with Mendelian Susceptibility to Mycobacterial Disease**
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- XLV. Evaluation of the effect of TIM-3 suppression by miR-498 and its effect on apoptosis and proliferation rate of HL-60 cell line**
Moghaddam Y, Andalib A, Mohammad-Ganji M, Homayouni V, Sharifi M, Ganjalikhani-Hakemi M. *Pathology Research and Practice*, cilt.214, sa.9, ss.1482-1488, 2018 (SCI-Expanded)
- XLVI. Analysis of the expression of mir-34a, mir-199a, mir-30c and mir-19a in peripheral blood CD4+T lymphocytes of relapsing-remitting multiple sclerosis patients**
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- XLVII. Expressions of p53 and PUMA in fibroblasts of systemic sclerosis patients are normal at transcription level**
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- XLVIII. Semaphorin-3A as An Immune Modulator Is Suppressed by MicroRNA-145-5p**
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- XLIX. Silencing of TIM-3 expression by miR-326 affects apoptosis and proliferation of human HL-60 leukemia cell line**
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- L. The +4259A>C polymorphism of TIM-3 but not -1637C>T polymorphism of TIM-1 is associated with Multiple sclerosis in Isfahan population**
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- LIII. Stimulation of camel polyclonal antibody against human T cell immunoglobulin and mucin 3**
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- LIV. Decreased expression of Sema3A, an immune modulator, in blood sample of multiple sclerosis patients**
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- LIV. **Comparison of various classifications for patients with common variable immunodeficiency (CVID) using measurement of B-cell subsets**
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- LV. **Decreased Expression of B cell Maturation Antigen in Patients with Common Variable Immunodeficiency**
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- LVI. **The Effect of Licorice Protein Fractions on Proliferation and Apoptosis of Gastrointestinal Cancer Cell Lines**
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- LVIII. **The increase in protein and plasmid yields of e. Coli with optimized concentration of ampicillin as selection marker**
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- LXI. **Expression of biologically active murine interleukin-18 in *Lactococcus lactis***
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- LXV. **Characteristics of innate lymphoid cells (ILCs) and their role in immunological disorders (an update)**
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- LXVI. **Development of a stable cell line, overexpressing human T-cell immunoglobulin mucin 1**
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LXVIII. miR-141 and miR-200a, revelation of new possible players in modulation of Th17/Treg differentiation and pathogenesis of multiple sclerosis

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Diğer Dergilerde Yayınlanan Makaleler

- I. **Nanoparticles as Potent Agents for Treatment of Schistosoma Infections: A Systematic Review**
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