

[1- Personal Information]

- **Scholar h-index:** 29
 - **Scopus h-index:** 24
 - **ORCID ID:** 0000-0003-0493-9595
 - **Full Name:** Saeed Khalili
 - **Date of Birth:** 1/1/1365 (March 21, 1986)
 - **Place of Birth:** Miyaneh, East Azerbaijan, Iran
 - **Marital Status:** Married
 - **Address:** Tehran, Jalal Al-Ahmad Street, Tarbiat Modares University, Faculty of Medical Sciences
 - **Mobile Phone:** +98 914 323 0825
 - **Email:** s.khalili88@gmail.com, saeed.khalili@modares.ac.ir
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[2- Educational Background]

# University	Field of Study	Duration
1 Shahid University	Biotechnology	2005-2009 (B.Sc.)
2 Tarbiat Modares University	Medical Biotechnology	2009-2011 (M.Sc.)
3 Tarbiat Modares University	Medical Biotechnology	2011-2016 (Ph.D.)
4 Tarbiat Modares University	Medical Biotechnology	2016-2017 (Postdoc)

[3- Academic Membership]

- **Faculty Member at Shahid Rajaei University** (2017–2025, Associate Professor, Level 11)
 - **Tarbiat Modares University** (2025–present, Associate Professor, Level 12)
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[4- Executive Experience]

1. **Deputy of Research and Technology, Faculty of Materials Engineering and Interdisciplinary Sciences** (2023–Present)
 2. **Head of the Biological Sciences Department, Shahid Rajaei University** (2021–2023)
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[5- Academic Degrees and Awards]

- 1. Top Researcher in the Faculty of Basic Sciences (2025)**
 - 2. Top Young Researcher of Shahid Rajee Teacher Training University, (2024)**
 - 3. Top Researcher in the Faculty of Materials Engineering and Interdisciplinary Sciences (2023)**
 - 4. Commendable Researcher, Shahid Rajaei University (2022)**
 - 5. Exemplary Professor, Shahid Rajaei University (2022)**
 - 6. Distinguished Researcher, Shahid Rajaei University (2021)**
 - 7. Winner of Dr. Kazem Ashtiani Award (Recruitment in Scientific Institutions), National Elites Foundation (2017)**
 - 8. Winner of Shahid Chamran Award (Postdoctoral), National Elites Foundation (2017)**
 - 9. Winner of the National Elites Foundation's Specialized Military Service Award (2016)**
 - 10. Ranked 1st in the Ph.D. Entrance Exam in Medical Biotechnology**
 - 11. Ranked 1st in the Comprehensive Written and Oral Ph.D. Exam in Medical Biotechnology**
 - 12. Top Graduate (Excellent) in Ph.D. (GPA: 18.94)**
 - 13. Ranked 11th in the M.Sc. Entrance Exam in Cellular and Molecular Biology**
 - 14. Top Graduate (Excellent) in M.Sc. (GPA: 19.17)**
 - 15. Graduated with Honors in M.Sc. (Thesis Score: 19.60)**
 - 16. Top Graduate (Excellent) in B.Sc.**
 - 17. Ranked 4th in the M.Sc. Entrance Exam in Medical Biotechnology**
 - 18. Ranked 9th in the M.Sc. Entrance Exam in Biochemistry**
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[6- Skills]

1. Protein Engineering and Targeted Mutagenesis
2. Design and Construction of Recombinant Vaccines and Evaluation in *in silico*, *in vitro*, and *in vivo* Environments
3. Design and Construction of Vaccination Vectors and Immunization
4. Bioinformatics for Protein Modeling, Docking, and Molecular Dynamics
5. DNA and RNA Bioinformatics
6. Bioinformatics in Antibody Design
7. Molecular Dynamics in Bioinformatics
8. Proficiency in Immunoinformatics Methods
9. Bioinformatics in Drug Design

10. DNA Vaccination, Phage Display, and Phage Therapy
 11. Purification of Recombinant Proteins
 12. ELISA, Western Blot, SDS-PAGE Techniques
 13. Chromatography Methods
 14. Expression of Recombinant Proteins and Gene Expression Enhancement via Codon Optimization
 15. Working with Laboratory Animals
 16. Proficiency in Genetic Engineering and Protein Engineering Software
 17. Primer and Probe Design
 18. Proficiency in Molecular Methods (Cloning)
 19. Proficiency in PCR and Troubleshooting
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[7- Publications]

- 1) **Decoding the impact of nsSNP variants on BCL6 function through integrated computational analysis**
Shaden M.H. Mubarak, Pardis Abdali Dehdezi, Amir Razavinia, Bahman Khalesi, Zahra Sadat Hashemi, Abolfazl Jahangiri, Mohammad Reza Rahbar, Mahdieh Mahboobi, **Saeed Khalili***
Current Research in Structural Biology (2026)
- 2) **OmpA virulence factor, a promising conserved vaccine candidate against Acinetobacter baumannii, could trigger autoreactive immune responses in susceptible population**
Kobra Ahmadi Zanoos, Othman Jamal Nassrullah, Shaden M. H. Mubarak, Bahman Khalesi, Mohammad Reza Rahbar, Yasmin Zare, Saeed Khalili, Navid Pourzardosht, Moslem Jafarisani and Abolfazl Jahangiri
BMC Immunology (2025)
- 3) **In silico design of a novel antigen based on pathogenic variant epitopes of epsilon toxin: avoidance of potential molecular mimicry involved in autoimmune responses**
Saeed Khalili, Othman Jamal Nassrullah, Yaqdhan Alnomani, Mohammad Reza Rahbar, Abolfazl Jahangiri
Beni-Suef University Journal of Basic and Applied Sciences (2025)
- 4) **A novel missense pathogenic variant c.9455T > G (p.L3152R) in CDH23 underlies autosomal recessive non-syndromic hearing loss**
Ladan Sadeghian, Marziyeh Hoseinzadeh, Mohammad reza Pourreza, **Saeed Khalili**, Najmeh Fattahi, Mohammad Amin Tabatabaiefar
Egyptian Journal of Medical Human Genetics (2025)
- 5) **Structural design of IL10 to obtain more effective drugs with lower affinity against IL10Rb and decoupled pro- and anti-inflammatory functions**
Zahra Sadat Hashemi, Mohammad Reza Rahbar, Mahboubeh Zarei, **Saeed Khalili***, Ramin Sarrami Forooshani
Results in Chemistry (2025)
- 6) **Ectopic expression of miR-34a/-328 sensitizes breast cancer stem cells to gamma rays/doxorubicin by BCL2/ABCG2 targeting**
Somayeh Dehghan Kouhestan, **Saeed Khalili**, Abdollah Razi, Mehdi Aghili, Mehdi Forouzandeh Moghadam
Molecular Biology Reports (2025)

- 7) **Current Understanding of the Exosomes and Their Associated Biomolecules in the Glioblastoma Biology, Clinical Treatment, and Diagnosis**
Aghdas Ramezani, Maryam Rahnama, Fatemeh Mahmoudian, Fatemeh Shirazi, Mahmoud Ganji, Shohreh Bakhshi, Bahman Khalesi, Zahra Sadat Hashemi, **Saeed Khalili***
Journal of Neuroimmune Pharmacology (2025) 20:48
- 8) **Current Understanding of Therapeutic and Diagnostic Applications of Exosomes in Pancreatic Cancer.**
Shakerian, N., Tafazoli, A., Razavinia, A., ... Hashemi, Z.S., **Khalili, S***.
Pancreas, 2025, 54(3), pp. e255–e267
- 9) **Evaluation of the clinical significance of BTG1 gene expression and pepsinogen in serum and cancerous tissue and gastric atrophy**
Paridar, Y., Hosseinpour, H., Mard-Soltani, M., ... **Khalili, S.**, Abyaz, M.R.
Archives of Physiology and Biochemistry, 2025
- 10) **Dual roles of extracellular vesicles in acute lymphoblastic leukemia: implications for disease progression and theranostic strategies**
Lajevardi, M.S., Ashrafpour, M., Mubarak, S.M.H., ... **Khalili, S.**, Payandeh, Z.
Medical Oncology, 2025, 42(1), 11
- 11) **In silico design of a novel hybrid epitope-based antigen harboring highly exposed immunogenic peptides of BamA, OmpA, and Omp34 against Acinetobacter baumannii.**
Hessami, A., Mogharari, Z., Rahim, F., **Khalili, Saeed.**, Jahangiri, A.
International Immunopharmacology, 2024, 142, 113066
- 12) **Doxorubicin-loaded NK exosomes enable cytotoxicity against triple-negative breast cancer spheroids**
Z.S.Hashemi*, Ghavami, Mohammad, Barough, Shokati, Asghari, **Khalili Saeed**, Akbari-Yekta, Ghavamzadeh, Sarrami.
Iranian Journal of Basic Medical Sciences 2024. https://ijbms.mums.ac.ir/article_24757.html
- 13) **Characterization of an engineered ACE2 protein for its improved biological features and its transduction into MSCs: A novel approach to combat COVID-19 infection**
Z.S.Hashemi, **Khalili Saeed***, Barough, Sarrami, Sanati, Esfandabadi, Rasaee, Nasirmoghadas.
International Journal of Biological Macromolecules 2024.
<https://www.sciencedirect.com/science/article/abs/pii/S0141813024048712>
- 14) **Exosomes with Engineered Brain Derived Neurotrophic Factor on Their Surfaces Can Proliferate Menstrual Blood Derived Mesenchymal Stem Cells: Targeted Delivery for a Protein Drug**
Gorji, F.S., Mahdavian, S.F., Khodashenas, S., ... **Khalili, S.**, Mahdavi, M.R.
Protein Journal, 2024, 43(6), pp. 1070–1082
- 15) **Therapeutic and diagnostic applications of exosomes in colorectal Cancer**
Shakerian, Darzi-Eslam, Afsharnoori, Bana, Ghahroodi, Tarin, Mard-soltani, Khalesi, Z.S.Hashemi*, **Khalili Saeed***.
Medical Oncology 2024. <https://link.springer.com/article/10.1007/s12032-024-02440-3>
- 16) **Correlation between plasma biochemical parameters and cardio-hepatic iron deposition in thalassemia major patients.**
Saadatifar, H., Mard-Soltani, M., Niayeshfar, A., ... **Khalili Saeed**, Saadatifar, S., Mashhadi, S.M.
Scandinavian Journal of Clinical and Laboratory Investigation, 2024, 84(4), pp. 245–251
- 17) **Potential promising anticancer applications of β -glucans: a review**
Varnosfaderani, S.M.N., Ebrahimzadeh, F., Oryani, M.A., ... **Khalili Saeed**, Afjadi, M.N., Bahrami, A.A.

18) “Exosomes as novel tools for renal cell carcinoma therapy, diagnosis, and prognosis”

Razavinia, Razavinia, Khalife, Ghavami, Shahri, Tafazoli, Khalesi, Z.S.Hashemi, **Khalili Saeed***,
Heliyon 2024. <https://pubmed.ncbi.nlm.nih.gov/38948044/>

19) “Current knowledge on therapeutic, diagnostic, and prognostics applications of exosomes in multiple myeloma: Opportunities and challenges”

Ramezani, Tafazoli, Salimi, Ghavami, Arjmandi, Khalesi, Z.S.Hashemi, **Khalili Saeed***.
Archives of Biochemistry and Biophysics 2024. <https://pubmed.ncbi.nlm.nih.gov/38626818/>

20) “In Silico Characterization of Epitopes for Vaccine Design against Escherichia Coli based on hemeutilization protein

Sefid, Payandeh, **Khalili Saeed**, Z.S.Hashemi, Zakeri, Alagheband, Kalantar, Moghaddas, Pourzardosht.
Journal of Applied Biotechnology Reports 2024. https://www.biotechrep.ir/article_193560.html

21) Engineering of Dihydroxy Biphenyl Dioxygenase Enzyme to Improve Its Performance In Removing PCBs: A Molecular Docking Study

Yazdankhah, S., Zakeri, A., **Khalili, S.**, ... Hashemi, Z., Heidari, A.
Scientific Journal of Kurdistan University of Medical Sciences, 2024, 29(4), pp. 25–38

22) Macrophage-Based Therapeutic Strategies in Hematologic Malignancies.

Khalili, Saeed, Zeinali, F., Moghadam Fard, A., ... Almasi, F., Payandeh, Z.
Cancers, 2023, 15(14), 3722

23) Response Surface Methodology to Optimize the Expression Efficiency of Recombinant Reteplase

Farzaneh, F., Mirzaie, S., Dehnavi, E., ... Pourzardosht, N., **Khalili, Saeed**.
Iranian Journal of Biotechnology, 2023, 21(2), pp. 105–116, e3288

24) Recombinant highly antigenic truncated fusion-based protein as a diagnostic antigen for anti-SARS-CoV-2 nucleocapsid antibody ELISA

Salarifar, A., **Khalili, Saeed**, Rasaeae, M.J.
Protein Expression and Purification, 2023, 203, 106200

25) In silico Validation of Pseudomonas aeruginosa Exotoxin A Domain I Interaction with the Novel Human scFv Antibody

Shadman, Z., Ghasemali, S., Farajnia, S., ... **Khalili, Saeed**, Rahbarnia, L.
Infectious Disorders - Drug Targets, 2023, 23(5), pp. 31–37, e290323215113

26) Editorial: Recent advances in the development of vaccines against Acinetobacter baumannii.

Khalili, Saeed, Chen, W., Jahangiri, A.
Frontiers in Immunology, 2023, 14, 1187554

27) In Silico Design and Verification of LAMP-BDNF Chimeric Protein for Presentation of BDNF on the Surface of Exosomes for Drug Delivery Through Blood-Brain Barrier

Khalili, Saeed, Mahdavian, S.F., Ahmadifard, N., ... Razavi, A.S., Khodashenas, S.
Journal of Mazandaran University of Medical Sciences, 2023, 32(216), pp. 192–193

28) The Ability of Antibody against Truncated Matrix Metalloproteinase 9 Peptide to Evaluate the Native Protein on Tear Drops of Dry Eye Disease Patients by a Point-of-Care Diagnostic System

Zahra Afshari, Mohammad Javad Rasaeae, Maliheh Paknejad, **Saeed Khalili**, Alireza Baradaran-Rafii
Journal of Current Ophthalmology

- 29) Different Combinations of Monoclonal Antibodies and Polyclonal Antibodies in the Design of Neonatal Hypothyroidism Diagnostic Kit (Applied Biochemistry and Biotechnology)**
Shakerian, N., Mard-Soltani, M., Nasri, S., Rasaee, M.J., **Khalili, Saeed**.
Applied Biochemistry and Biotechnology, 2023, 195(1), pp. 723–724
- 30) "خلیلی"** مهندسی آنزیم آزریداکتاز جهت ایجاد تغییرات ساختاری در جایگاه فعال و بهبود تمایل اتصال آن به رنگ های آزو". نویسندگان یعقوبی، **خلیلی** " 1402 **سعید**، زهرالسادات هاشمی، پورزردشت. مجله دانش و تندرستی در علوم پایه پزشکی، دانشگاه علوم پزشکی شاهرود. <https://knh.shmu.ac.ir/index.php/site/article/view/2790/1366>
- 31) "Clodronic Acid has Strong Inhibitory Interactions with the Urease Enzyme of Helicobacter Pylori: Computer-aided Design and in vitro Confirmation"** Written by Karami, **Khalili Saeed***, Mashhadi, Z.S.Hashemi, Zarei. Current Computer-Aided Drug Design 2023. <https://pubmed.ncbi.nlm.nih.gov/37957909/>
- 32) "Distinctive expression of metastamiRs in Breast Cancer Mesenchymal Stem Cells isolated from solid tumor"** Written by Z.S.Hashemi, Forouzandeh, **Khalili Saeed**, Hashemi, Sepehr, Sadroddiny. Current Stem Cell Research & Therapy 2023. <https://pubmed.ncbi.nlm.nih.gov/38265389/>
- 33) "بررسی بیوانفورماتیک آنزیم متان مونواکسیژناز و جهش زایی در آن جهت بهبود عملکرد آنزیمی". نویسندگان سلیمانی پور، **سعید خلیلی**، زهرالسادات هاشمی، جهانگیری. مجله دانش و تندرستی در علوم پایه پزشکی، دانشگاه علوم پزشکی شاهرود. 1402 <https://knh.shmu.ac.ir/index.php/site/article/view/2780/1343>**
- 34) SARS-CoV-2 Lambda and Omicron Variants: Antigenicity Evaluation of Spike Proteins as Potential Targets for Vaccine Development"**
Zarei, Zakeri, **Khalili Saeed***, Z.S.Hashemi*.
Vaccine Research 2023. <http://vacres.pasteur.ac.ir/article-1-323-en.html>
- 35) "Novel Delivery of Sorafenib by Natural Killer-Exosomes Enhanced Apoptosis in Triple-Negative Breast Cancer"**
Z.S.Hashemi*, Ghavami, Kiaie, Mohammadi, Shokrollahi, **Khalili Saeed**, Hosseini, Mossahebi,. Sheidary, Ghavamzadeh, Sarrami.
Nanomedicine 2023. <https://www.futuremedicine.com/doi/10.2217/nmm-2022-0237#>
- 36) Current understanding of epigenetics role in melanoma treatment and resistance**
Karami Fath, M., Azargoonjahromi, A., Soofi, A., ... **Khalili Saeed**, Payandeh, Z., Pourzardosht, N.
Cancer Cell International, 2022, 22(1), 313
- 37) "Impact of SNPs, off-targets, and passive permeability on efficacy of BCL6 degrading drugs assigned by virtual screening and 3D-QSAR approach"**
Karimi, Shahabi, Mubarak, Arjmandi, Z.S.Hashemi, Pourzardosht, Zakeri, Mahboobi, Jahangiri, Rahbar, **Khalili Saeed***.
Scientific Reports 2022.

- 38) A Phage Display Derived Cyclized Peptide Inhibits Fibrosarcoma Cells Invasion via Suppression of MMP-9 Activity**
Shoari, A., **Khalili, S.**, Rasaee, M.J., Löwik, D.W.P.M.
International Journal of Peptide Research and Therapeutics, 2022, 28(5), 136
- 39) “Molecular mechanisms and therapeutic effects of different vitamins and minerals in COVID-19 patients”**
Karami, Naderi, Hamzavi, Ganji, Shabani, Noorabad, Khalesi, Pourzardosht, Z.S.Hashemi, **Khalili Saeed***.
Journal of Trace Elements in Medicine and Biology 2022.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9297660/>
- 40) A unique antigen against SARS-CoV-2, Acinetobacter baumannii, and Pseudomonas aeruginosa**
Rahbar, M.R., Mubarak, S.M.H., Hessami, A., ... **Khalili Saeed,** Zanoos, K.A., Jahangiri, A.
Scientific Reports, 2022, 12(1), 10852
- 41) Recent Advances in Glioma Cancer Treatment: Conventional and Epigenetic Realms**
Karami Fath, M., Babakhaniyan, K., Anjomrooz, M., ... **Khalili, Saeed,** Payandeh, Z.
Vaccines, 2022, 10(9), 1448
- 42) “Pierce into Structural Changes of Interactions Between Mutated Spike Glycoproteins and ACE2 to Evaluate Its Potential Biological and Therapeutic Consequences”**
Z.S.Hashemi, Zarei, Mubarak, Hessami, Mard-Soltani, Khalesi, Zakeri, Rahbar, Jahangiri, Pourzardosht, **Khalili Saeed***.
International Journal of Peptide Research and Therapeutics 2021.
<https://link.springer.com/article/10.1007/s10989-021-10346-1>
- 43) Recombinant subunits of SARS-CoV-2 spike protein as vaccine candidates to elicit neutralizing antibodies**
Noorabad Ghahroodi, F., **Khalili, Saeed,** Rasaee, M.J.
Journal of Clinical Laboratory Analysis, 2022, 36(5), e24328
- 44) The correlation of cardiac biomarkers and myocardial iron overload based on T2* MRI in major beta-thalassemia**
Saadatifar, H., Niayeshfar, A., Mard-Soltani, M., ... **Khalili Saeed,** Alinezhad Dezfuli, D., Pouriamehr, S.
International Journal of Cardiovascular Imaging, 2022, 38(4), pp. 833–840
- 45) “Distribution of DD Genotype of Angiotensin-Converting Enzyme Gene and Its Correlation with Diabetic Retinopathy”**
Ali-Bahar, Mard-Soltani, Paridar, Nasirbaghban, Z.S.Hashemi, Zakeri, **Khalili Saeed.**

46) Hotspots for mutations in the SARS-CoV-2 spike glycoprotein: a correspondence analysis

Rahbar, M.R., Jahangiri, A., **Khalili, Saeed**, ... Sadraei, S., Negahdaripour, M.

Scientific Reports, 2021, 11(1), 23622

47) Mohsen Karami Fath, Abolfazl Jahangiri, Mahmoud Ganji, Fatemeh Sefid, Zahra Payandeh, Zahra Sadat Hashemi, Navid Pourzardosht, Anahita Hessami, Maysam Mard-Soltani, Alireza Zakeri, Mohammad Reza Rahbar and **Saeed Khalili***

SARS-CoV-2 Proteome Harbors Peptides Which Are Able to Trigger Autoimmunity Responses: Implications for Infection, Vaccination, and Population Coverage *Published: Frontiers in immunology (2021)*

48) Mohsen Karami Fath, Farhad Zahedi, Zahra Sadat Hashemi, **Saeed Khalili***

Evaluation of several differentiation inducers of bone marrow-derived mesenchymal stem cells to nerve cells by assessing the expression of beta-tubulin 3 marker: a systematic review

Accepted: Current Stem Cell Research & Therapy CSCRT (2021)

49) Abolfazl Jahangiri¹, Parviz Owlia, Iraj Rasooli¹, Jafar Salimian, Ehsan Derakhshanifar, Zahra Aghajani, Sajad Abdollahi, **Saeed Khalili, Daryush Talei & Elham Darzi Eslam**

Specific egg yolk immunoglobulin as a promising non-antibiotic biotherapeutic product against

Acinetobacter baumannii pneumonia infection

Published: Scientific Reports (2021)

50) In silico Approaches for the Design and Optimization of Interfering Peptides Against Protein–Protein Interactions

Zahra Sadat Hashemi, Mahboubeh Zarei, Mohsen Karami Fath, Mahmoud Ganji, Mahboube Shahrabi Farahani, Fatemeh Afsharnouri, Navid Pourzardosht, Bahman Khalesi, Abolfazl Jahangiri, Mohammad Reza Rahbar,

Saeed Khalili

Frontiers in Molecular Biosciences (2021)

51) Mohammad Reza Rahbar, Hadi Esmaeili Gouvarchin Galeh, **Saeed Khalili and Abolfazl Jahangiri**

Chitosan: A Promising Protective Component against SARS-CoV-2 and Influenza Virus

Published: Letters in Drug Design & Discovery (2021)

52) Mohammad Reza Rahbar, Mahboubeh Zarei, Abolfazl Jahangiri, **Saeed Khalili, Navid Nezafat, Manica**

Negahdaripour, Yaser Fattahian, Amir Savardashtaki and Younes Ghasemi

Non-adaptive Evolution of Trimeric Autotransporters in Brucellaceae

Published: Frontiers in Microbiology (2020)

53) Mahdiah Mahboobi, Hamid Sedighian, Ehsan Malekara, **Saeed Khalili, Mohammad Reza Rahbar, Kobra Ahmadi Zanoos, Raheleh Halabian, Abolfazl Jahangiri**

Harnessing an Integrative in Silico Approach to Engage Highly Immunogenic Peptides in an Antigen Design Against Epsilon Toxin (ETX) of Clostridium perfringens

Published: International Journal of Peptide Research and Therapeutics (2020)

54) Navid Pourzardosht , Zahra Sadat Hashemi , Maysam Mard-Soltani , Abolfazl Jahangiri , Mohammad Reza Rahbar , Alireza Zakeri , Ebrahim Mirzajani & **Saeed Khalili***

Liothyronine could block the programmed deathligand 1 (PDL1) activity: an e-Pharmacophore modeling and virtual screening study

Published: Journal of Receptors and Signal Transduction (2020)

55) Sadra S Tehrani, Abolfazl Jahangiri, Mortaza Taheri-Anganeh, Hossein Maghsoudi, Saeed Khalili, Saeed E Fana, Mahmood Maniati, Jafar Amani

Designing an Outer Membrane Protein (Omp-W) Based Vaccine for Immunization against Vibrio and Salmonella: An in silico Approach

Published: Recent Patents on Biotechnology (2020)

56) Alireza Zakeri , Sepideh Khoshsorour , Mohsen Karami Fath , Navid Pourzardosht , Faezeh Fazeli & **Saeed Khalili***

Structural analyses and engineering of the pmHAS enzyme to improve its functional performance: An in silico study

Published: Journal of Carbohydrate Chemistry (2020)

57) Sepideh Ghani, Samira Bahrami, Behnam Rafee, Shirin Eyvazi, Fatemeh Yarian, Shahrzad Ahangarzadeh, **Saeed Khalili**, Kiana Shahzamani, Moslem Jafarisani, Mojgan Bandehpour, Bahram Kazemi

Recent developments in antibody derivatives against colorectal cancer; A review

Published: Life Sciences (2020)

58) Youssof Sefidi-Heris, Abolfazl Jahangiri, Ahad Mokhtarzadeh, Mohammad-Ali Shahbazi, **Saeed Khalili**, Behzad Baradaran, Jafar Mosafer, Amir Baghbanzadeh, Maryam Hejazi, Mahmoud Hashemzaei, Michael R. Hamblin and Hélder A. Santos

Recent progress in the design of DNA vaccines against tuberculosis

Published: Drug Discovery Today (2020)

59) Seyed Samad Hosseini, Saeed Khalili, Behzad Baradaran, Negar Bidar, Mohammad-Ali Shahbazi, Jafar Mosafer, Mahmoud Hashemzaei, Ahad Mokhtarzadeh, Michael R. Hamblin

Bispecific monoclonal antibodies for targeted immunotherapy of solid tumors: Recent advances and clinical trials

Published: International Journal of Biological Macromolecules (2020)

60) Zahra Payandeh, Nillofar Mohammad khani, Mohsen Nabi Afjadi, **Saeed Khalili**, Masoumeh Rajabibazl, Zahra Houjaghani & Masoomeh Dadkhah

The immunology of SARS-CoV-2 infection, the potential antibody based treatments and vaccination strategies

Published: Eexpert review of anti-infective therapy (2020)

61) Tayebeh Rezaei, Elham Davoudian, **Saeed Khalili**, Mohammad Amini, Maryam Hejazi, Miguel de la Guardia, Ahad Mokhtarzadeh

Strategies in DNA vaccine for melanoma cancer

Published: Pigment Cell Melanoma Res (2020)

62) Hojat Borna, **Saeed Khalili**, Alireza Zakeri, Maysam Mard-Soltani, Ali Reza Akbarzadeh, Bahman Khalesi, Zahra Payandeh

Proposed Multi-Linear Regression Model to Identify Cyclooxygenase-2 Selective Active Pharmaceutical Ingredients

Published: Journal of Pharmaceutical Innovation (2020)

63) Zahra Payandeh, Mohammad Reza Rahbar, Abolfazl Jahangiri, Zahra Sadat Hashemi, Alireza Zakeri, Moslem Jafarisani, Mohammad Javad Rasaei, **Saeed Khalili***

Design of an engineered ACE2 as a novel therapeutics against COVID-19

Published: Journal of Theoretical Biology (2020)

64) Fatemeh Abarghooi Kahaki, Sakineh Monzavi, Hadi Bamehr, Eshagh Bandani, Zahra Payandeh, Abolfazl Jahangiri, Saeed Khalili

Expression and Purification of Membrane Proteins in Different Hosts

Published: International Journal of Peptide Research and Therapeutics (2020)

65) Z. Payandeh, S Khalili, M. Hosseinsina, M. Mardsoltani, A. Baghbanzadeh, Hajiasgharzadeh, N. Samadi, B Baradaran

PD-1/ PD-L1 dependent immune response in colorectal cancer

Published: Journal of Cellular Physiology (2020)

66) Effat Noori, Bahram Kazemi, Mojgan Bandehpour, Hakimeh Zali, Bahma Khalesi & Saeed Khalili

Deciphering crucial genes in coeliac disease by bioinformatics analysis

Published: Autoimmunity (2019)

67) Tayebeh Rezaeia, Saeed Khalili, Behzad Baradaran, Jafar Mosafer, Sarah Rezaei, Ahad Mokhtarzadeha, Miguel de la Guardia

Recent advances on HIV DNA vaccines development: Stepwise improvements to clinical trials

Published: Journal of Controlled Release (2019)

68) Armina Alagheband Bahramia , Zahra Payandehb, Saeed Khalilic, Alireza Zakeric, and Mojgan, Bandehpour
Immunoinformatics: In Silico Approaches and Computational Design of a Multi-epitope, Immunogenic Protein

Published: International Reviews of Immunology (2019)

69) Zahra Sadat Hashemi, Saeed Khalili, Fatemeh Malaei, Maysam Mard-Soltani, Moslem Jafarisani, Jabar Lotfi, Mohammad Reza Deemeh, Alireza Zakeri, Mohamad Javad Rasae

Serum DKK1 is correlated with gamma peak of serum electrophoresis in multiple myeloma: a multicenter biomarker study

Published: Biomarkers in Medicine (2019)

70) Mohammad Reza Rahbar, Mahboubeh Zarei, Abolfazl Jahangiri, Saeed Khalili, Navid Nezafat, Manica Negahdaripour, Yaser Fattahian, Younes Ghasemi

Pierce into the native structure of Ata, a trimeric autotransporter of Acinetobacter baumannii ATCC 17978

Published: International Journal of Peptide Research and Therapeutics (2019)

71) Keivan Adinehbeigi, Mino Shaddel, Saeed Khalili, Alireza Zakeri

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72) Mahmoud Ganji, Saeed Khalili, Maysam Mard-Soltani, Bahman Khalesi, Ahmad Karkhah, Jafar Amani

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77) Mohammad Reza Rahbar, Mahboubeh Zarei, Abolfazl Jahangiri, Saeed Khalili, Navid Nezafata, Manica Negahdaripoura, Yaser Fattahiane, Younes Ghasemi

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Published: Iran J Allergy Asthma Immunol (2018)

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The Effect of Differentially Designed Fusion Proteins to Elicit Efficient Anti-human Thyroid Stimulating Hormone Immune Responses

Published: Iran J Allergy Asthma Immunol (2018)

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- 87)** Saeed Khalili, Alireza Zakeri, Zahra Sadat Hashemi, Masoumeh Masoumikarimi, Mohammad Reza Rezaei Manesh, Nabi Shariatifar and Moslem Jafari Sani
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Published: Toxicon (2017)
- 89)** Zahra Sadat Hashemi, Saeed Khalili, Mehdi Forouzandeh Moghadam, Esmail Sadroddiny
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Published: Expert Review of Respiratory Medicine (2017)
- 90)** Saeed Khalili, Mohamad Javad Rasaei, Taravat Bamdad
3d structure of dkk1 indicates its involvement in both canonical and non-canonical wnt pathways.
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In silico prediction and in vitro verification of a novel multi-epitope antigen for HBV detection
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Computational vaccinology and epitope vaccine design by immunoinformatics.
Published: Acta Microbiologica et Immunologica Hungarica, DOI: 10.1556/AMicr.61.2014.3.4, 61 (3), pp. 285–307 (2014)

97) سعید خلیلی، ابوالفضل جهانگیری، جعفر امانی، علی هاتف سلمانیان

کاربرد بیوانفورماتیک در مطالعات ایمنی شناسی.

مجله پژوهش های سلولی مولکولی (مجله زیست شناسی ایران)، جلد 27، شماره 2، 1393

98) Jahangiri A, Rasooli I, Reza Rahbar M, **Khalili S**, Amani J, Ahmadi Zanoos K.
Precise detection of *L. monocytogenes* hitting its highly conserved region possessing several specific antibody binding sites.

Published: *Journal of Theoretical Biology* 305:15-23 (2012)

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An *in silico* DNA vaccine against *Listeria monocytogenes*.

Published: *Vaccine* 29 (40), pp. 6948-6958 (2011)

[8- Participation in Conferences and Symposia]

1. **Designing of a multiepitopic antigen for anti-HBV antibody detection with high sensitivity and specificity: an *in silico* approach.** Presented by **Saeed Khalili**, Mohammad Javad Rasaei, Seyed Latif Mousavi Gargari, Jafar Amani, Abolfazl Jahangiri. *The 12th Iranian Congress of Biochemistry & the 4th International Congress of Biochemistry & Molecular Biology.*
2. **In silico analysis of ActA in *Listeria monocytogenes* aiming at elicitation of specific antibody production to impart infection retardation property.** Presented by Abolfazl Jahangiri, Iraj Rasooli, Seyed Latif Mousavi Gargari, Mohammad Reza Rahbar, Jafar Amani, **Saeed Khalili**. *The 1st International & 12th Iranian Congress of Microbiology, 2011, Kermanshah, Iran.*
3. **Designing a multi-epitope antigen for the detection of HBV antibodies and cloning the related gene in the PGEX4T1 vector.** Presented by **Saeed Khalili**, Mohammad Javad Rasaei, Seyed Latif Mousavi Gargari, Jafar Amani, Abolfazl Jahangiri. *7th National Biotechnology Congress of the Islamic Republic of Iran, Tehran, 2011.*
4. **Determining the binding peptides of Listeriolysin O to MHC class I molecules using bioinformatics software.** Presented by Abolfazl Jahangiri, Iraj Rasooli, Seyed Latif Mousavi Gargari, Jafar Amani, Mohammad Reza Rahbar, **Saeed Khalili**. *7th National Biotechnology Congress of the Islamic Republic of Iran, Tehran, 2011.*
5. **Investigating the physicochemical properties of a recombinant peptide derived from Listeriolysin O in a virtual environment.** Presented by Abolfazl Jahangiri, Iraj Rasooli, Seyed Latif Mousavi Gargari, Jafar Amani, Mohammad Reza Rahbar, **Saeed Khalili**. *7th National Biotechnology Congress of the Islamic Republic of Iran, Tehran, 2011.*
6. **Modeling the tertiary structure of a recombinant peptide derived from Listeriolysin O.** Presented by Abolfazl Jahangiri, Iraj Rasooli, Seyed Latif Mousavi Gargari, Jafar Amani, Mohammad Reza Rahbar, **Saeed Khalili**. *7th National Biotechnology Congress of the Islamic Republic of Iran, Tehran, 2011.*
7. **Determining the three-dimensional structure of the DKK2 molecule by bioinformatics prediction.** Presented by Zahra Sadat Hashemi, **Saeed Khalili**. *1st International and 9th National Biotechnology Congress of the Islamic Republic of Iran, Tehran, May 2015.*
8. **Using antibody against DKK1 for early diagnosis of multiple myeloma.** Presented by **Saeed Khalili**, Mohammad Javad Rasaei, Taravat Bamdad. *4th Congress on Novel & Innovative Laboratory Technologies.*

9. **Recombinant Subunits of SARS-CoV-2 Spike Protein as Vaccine Candidates to Elicit Neutralizing Antibodies.** Presented at the *13th International Congress of Laboratory and Clinic*, 2021.
 10. **Inhibition of SARS-CoV-2 binding on ACE2-bearing cells following neutralizing antibodies produced against truncated spike protein.** Presented at the *17th National and 8th International Congress of Biochemistry and Molecular Biology*, 2022.
 11. **Application of Biomarkers in The Diagnosis of Patients with Systolic Heart Failure with and Without Coronary Artery Disease.** Presented at the *4th International Conference on Interdisciplinary Studies in Health Sciences, Psychology, Management, and Educational Sciences*, 2022.
 12. **Design of a diagnostic kit for anti-TSH antibody to newborn hypothyroidism.** Presented at the *8th International Conference on Health, Treatment, and Health Promotion*, 2022.
 13. **Evaluation of Lipid Factors and Coagulation Pathway in The Prognosis of Heart Disease in People with Type 2 Diabetes.** Presented at the *4th International Conference on Interdisciplinary Studies in Health Sciences, Psychology, Management, and Educational Sciences*, 2022.
 14. **The Role of Pepsinogen and Btg1 in The Diagnosis of Gastric Cancer.** Presented at the *4th International Conference on Interdisciplinary Studies in Health Sciences, Psychology, Management, and Educational Sciences*, 2022.
 15. **In-silico designing a specific drug to prevent kynurenine activity in cancer incidence and progression.** Presented at the *5th International and 17th National Genetics Congress of Iran*, 2022.
 16. **Investigation of biochemical and hematological factors of iron overload in beta-thalassemia patients.** Presented at the *11th International Conference on Health, Treatment, and Health Promotion*, 2022.
 17. **Investigating various factors and their relationship with type 2 diabetes and cardiovascular diseases.** Presented at the *11th International Conference on Health, Treatment, and Health Promotion*, 2022.
 18. **Cell-Free Therapy By Dactinomycin Loaded Into The Bone Marrow Mesenchymal Stem Cells-Derived Exosomes.** Presented at the *49th Annual Meeting of the EBMT*, 2023.
 19. **Investigating the physicochemical properties and sensitivity of the enzyme mucorpepsin extracted from *Rhizomucor miehei* using a bioinformatics approach.** Presented at the *1st National Conference on New Findings in Microbiology and Production of Biological Products*, 2023.
 20. **"Cell-Free Therapy By Dactinomycin Loaded Into The Bone Marrow Mesenchymal Stem Cells-Derived Exosomes"** Written by Hashemi Z.S*, Shokrollahi, Khalili Saeed, Ghavamzadeh, Sarrami. *Bone Marrow Transplantation Journal*, 2023.
 21. **Investigation and review of mucorpepsin enzyme and its application in the cheese industry.** Presented at the *4th International and 29th National Iranian Food Science and Technology Congress*, 2023.
 22. **Investigating molecular docking and binding energy between the enzyme mucorpepsin extracted from *Rhizomucor miehei* and cow's milk kappa-casein protein.** Presented at the *5th National Specialized Biology Conference*, 2024.
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[9- Principal Investigator and Collaborator in Completed and Ongoing Projects]

1. **Determining the effective immunogenic regions of LLO and ActA factors in *Listeria monocytogenes*** (2009–2011, Shahid University).
2. **Investigating the possibility of using probiotics as adjuvants** (2009–2011, Shahid University).
3. **Modeling the BIRC-8 protein to find a suitable inhibitor for reactivating the apoptosis pathway** (2014–Present, Semnan University).
4. **Bioinformatics comparison of the interaction of saffron and thyme active ingredients with the sodium-chloride transporter in the kidney tubule to investigate their diuretic role** (2014–Present, Torbat Heydariyeh University of Medical Sciences).
5. **Investigating possible methods to inhibit the epsilon toxin of *Clostridium perfringens* using bioinformatics approaches** (2015–Present, Baqiyatallah University).
6. **Investigating the expression of miR37, miR520, and miR335 in metastatic and non-metastatic breast cancer cell lines** (2016–Present, Tehran University of Medical Sciences).
7. **Screening ligands to find CTLA-4 antagonists** (2016–Present, Tarbiat Modares University).
8. **A novel method for discovering cyclooxygenase-2 inhibitors and investigating their presence in edible marine organisms** (2016–Present, Baqiyatallah University).
9. **Investigating changes in DKK1 concentration in the serum of multiple myeloma patients compared to healthy individuals using ELISA to introduce it as an effective diagnostic tumor marker for multiple myeloma** (2017–Present, National Institute for Medical Research Development).
10. **Bioinformatics screening of a library of small molecules to find suitable inhibitors for the GPR161 receptor for the treatment of triple-negative breast cancer** (2017–Present, Shahid Rajaei University).
11. **Determining the structure and mechanism of the pmHAS enzyme and designing various mutants to improve its function** (2017–Present, Shahid Rajaei University).
12. **Screening small molecule and peptide ligands to find effective PDL1 antagonists for cancer immunotherapy** (2017–Present, Golestan University of Medical Sciences).
13. **Engineering the ACE2 receptor protein for use as an inhibitor of COVID-19 virus fusion with the host membrane** (2019–Present, Shahid Rajaei University).
14. **Detailed investigation of 50,000 protein-containing peptides of the SARS-CoV-2 virus to determine the likelihood of a connection between COVID-19 infection and autoimmune responses in humans and the role of HLA diversity in susceptibility to such responses: an in silico approach** (2020–Present, Shahid Rajaei University).
15. **Bioinformatics investigation of mutations in the new English coronavirus variant with an approach to how these mutations affect the interaction of the spike protein with the ACE2 receptor** (2020–Present, Shahid Rajaei University).
16. **Preparation of mesenchymal stem cells producing engineered ACE2 protein with therapeutic potential in COVID-19 infection** (2020–Present, Researchers Support Fund).
17. **Screening a library of approved small molecules using virtual screening to identify IL10 mimetic molecules as therapeutic agents for COVID-19 infection** (2020–Present, Motamed Cancer Research Institute).
18. **Grant for Distinguished Researcher/National Institute for Medical Research Development (NIMAD): "Design and production of a diagnostic kit for neutralizing**

antibodies against the COVID-19 virus using a truncated recombinant ACE2 protein" (2021–Present).

19. **National project to define biotechnology standards in Iran and their localization** (2022–Present).

[10- Supervised Theses (Completed and Ongoing)]

#	Thesis Title	Student Name	Degree	University	Status
1	Bioinformatics study of methane monooxygenase enzyme and mutagenesis to improve its enzymatic function	Ali Soleimani Pour	M.Sc.	Shahid Rajaei University	Completed
2	Bioinformatics study of azoreductase enzyme to improve its enzymatic function in removing azo dyes	Maryam Yaqubi	M.Sc.	Shahid Rajaei University	Completed
3	Bioinformatics study of enzymes involved in the removal of PCB pollution to improve their enzymatic function in removing pollutants	Susan Yazdan Khah	M.Sc.	Shahid Rajaei University	Completed
4	Cloning and expression of human anti-CD20_SCFV conjugated to PE38 toxin and determining its properties	Sanaz Khatami	M.Sc.	Tarbiat Modares University	Completed
5	Screening a library of approved small molecules to find a suitable inhibitor for the urease enzyme of <i>Helicobacter pylori</i> and its laboratory investigation	Mohsen Karami Fath	Ph.D.	Kharazmi University	Completed
6	Investigating the environmental effects of PCB pollution and presenting a biological removal model	Nastaran Akbarian	M.Sc.	Shahid Rajaei University	Completed
7	Determining the structure and mechanism of the pmHAS enzyme and designing various mutants to improve its function	Sepideh Khoshrosour	Ph.D.	Payame Noor University	Completed
8	Investigating the effects of pesticides on the health of wheat farmers and the environment in Meymand, Fars, during the 2019 agricultural year	Noushin Zarini	M.Sc.	Shahid Rajaei University	Completed
9	Investigating the effects of pesticides on the health of tomato farmers and the environment in the Siah Darangoon region of Shiraz	Khajasteh Mosaffa	M.Sc.	Shahid Rajaei University	Completed
10	Screening a molecular library to find inhibitors of the TGF-B signaling pathway in T helper cells for cancer immunotherapy	Hanieh Arjmandi	Ph.D.	Islamic Azad University	Completed
11	Computational study of the inhibitory effect of sodium butyrate on the apoptosis and autophagy pathways in colon cancer	Seyedeh Fatemeh Tahmasebi	Ph.D.	Islamic Azad University	Completed
12	Virtual screening and molecular dynamics simulation to find potential inhibitors of the mexAB-OprM protein of <i>Pseudomonas aeruginosa</i> and comparison with sodium butyrate	Negar Afrashteh Far	Ph.D.	Islamic Azad University	Completed
13	In-silico simulation of a specific drug to prevent the function of the kynurenine protein in the onset and progression of cancer	Amir Reza Ziaei Nia	Ph.D.	Islamic Azad University	Completed

14	In-silico simulation of a specific drug to prevent the function of the KDM5B protein in the onset and progression of cancer	Zahra Alaei Nejad	Ph.D.	Islamic Azad University	Completed
15	Engineering the alkane hydroxylase (AlkB) enzyme to improve its function in the biodegradation of plastics using bioinformatics tools	Zahra Zadeh	Ph.D.	Shahid Rajaei University	Completed
16	Designing an inhibitor to prevent the function of citrate synthase enzyme to increase PHA expression in <i>Cupriavidus necator</i>	Mehdi Atabati	Ph.D.	Shahid Rajaei University	Completed
17	Mutagenesis of the mucorpepsin enzyme using bioinformatics tools to improve its enzymatic function and evaluate its effect using laboratory methods	Alireza Haydari	Ph.D.	Shahid Rajaei University	Completed
18	Preparation of recombinant antigens of the SARS-CoV-2 surface protein as immune system stimulants	Faezeh Noorabadi Ghahroodi	Ph.D.	Tarbiat Modares University	Completed
19	Production and investigation of the ability of antibodies against the shortened MMP-9 peptide to detect this protein in the tears of patients with dry eye	Zahra Afshari	Ph.D.	Tarbiat Modares University	Completed

[11- Books]

1. **Translation of "Levin's Cell"** – Majid Asadi, **Saeed Khalili**, Hassan Momen – Publisher: Andisheh Rafie, Shiraz University of Medical Sciences Publications, 2015.
 2. **Translation of "Molecular Genetics of Bacteria"** – Under Editing – Hossein Abdol Tehrani, **Saeed Khalili**, Zahra Sadat Hashemi, Zahra Naseri.
 3. **Authoring "Nano-Pharmaceuticals In Regenerative Medicine"** – Taylor & Francis Publications, 2021 (In Press), Chapter 2: "The Emerging Role of Exosome Nanoparticles in Regenerative Medicine" – Authors: Zahra Sadat Hashemi, Mahlegha Ghavami, **Saeed Khalili**, Seyed Morteza Naghib.
 4. **Translation and Authoring "Fundamentals of Practical Real-Time PCR"** – Jihad Daneshgahi Publications, Central Province Unit, 2023, Authors: Mardsoltani, Shakerian, Pouryamehr, **Saeed Khalili**, Hashemi. ISBN: 978-622-5457-67-6.
 5. **Authoring Educational Content "Introduction to Biotechnology"** – Biotechnology Student Club Publications, 2024, Authors: **Hashemi, Saeed Khalili**.
 6. **Authoring "Biological laboratories -- Safety measures"** Authors: Maryam Fazeli, Z. S. Hashemi, Behzad PoorHosseyyn, **Saeed Khalili**.
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