

# Curriculum Vitae

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Hakimeh Zali

Address: NO. 53, Western Ghobadian St., Valiasr St., Tehran, Iran  
Email: [hakimehzali@gmail.com](mailto:hakimehzali@gmail.com), [h.zali@sbmu.ac.ir](mailto:h.zali@sbmu.ac.ir)  
Office tell: +98 (0) 2188666140

## Education:

**Ph.D.:** Applied Proteomics. Faculty of Paramedical Sciences, *Shahid Beheshti University of Medical Sciences*, Tehran, Iran (Feb 2009-Mar 2014).

**M.Sc.:** Molecular Cell Biology. *Khatam University*, Tehran, Iran (Sep 2003-Aug 2006).

**B.Sc.:** Marine Biology. School of Para Medicine, Faculty of Marine Science, *Shahid Chamran University, Ahvaz, Iran* (Sep 1998-Jun 2002).

## Employment History:

- **Assistance Professor**, School of Advanced Technologies in Medicine, *Shahid Beheshti University of Medical Sciences*, Tehran, Iran (Oct 2014- Now)
- **Research assistant**, Proteomics Research Center, *Shahid Beheshti University of Medical Sciences*, Tehran, Iran (Sep 2007- Jan 2009)
- **Research assistant**, Skin Research Center, *Shahid Beheshti University of Medical Sciences*, Tehran, Iran (May 2006- Apr 2007)

## Skills:

- **Teaching:**

PhD students of tissue engineering and applied cell sciences

[1. Molecular cell biology, 2. Signaling pathways, 3. Bioinformatics, 4. Biobanking and tissue repairing (skin wound healing models and neural regeneration models), 5. Lab technics including primary cell separation and culture of amniotic membrane and human tumor cells, 3D cell culture of tumor-derived spheroid with extracellular matrix and 3D cell culture of different cell lines and primary stem cells in low attachment wells or on agar, 3D culturing of primary cells, cell lines and tumor spheroid in microfluidic system, proteomic techniques (1D and 2D-electrophoresis and image analysis, MALDI-TOF result analysis ), tissue processing for IHC, cytotoxicity assay(MTT, SRB, AO/PI), cell migration(in 2d of cell culture by scratch assay and Transwell assay, in 3D on scaffold by microscopic tracking and AO/PI staining or Dili staining for exosome and study in vivo ),6. Data

analysis of IHC, ICC, cytotoxicity assay, cell migration, apoptosis and cell cycle by flow cytometry].

PhD students of Molecular Medicine and Biotechnology

[1. Signaling pathways and system biology, 2. Bioinformatics with a focus on high-throughput data analysis, biological network analysis and motif detection 3. Proteomics].

PhD students of Proteomics

[1. Clinical proteomics, 2. industrial proteomics, 3. Bioinformatics, 4. Proteomics data analysis].

Online teaching of bioinformatics and system biology (1 month before SARS-CoV-2 pandemics until now)

- **LABORATORY TECHNIQUES:**

Cellular techniques:

Ex vivo culture of cells including amniotic membrane cells, different types of solid tumors, mesenchymal stem from various tissues, keratinocyte and fibroblast of foreskin tissue.

3D cell culture of primary cells and cell lines (spheroid preparation from human and animal solid tumors and cancer cell lines for drug testing in 3D microfluidic system with the aim of personalized medicine. Organoid obtain from stem cells to extract exosome and condition media with more neuroprotective properties).

Stem cell differentiation, cell migration and cancer stem cell enrichment. Different techniques of cell viability in 2D and 3D of cell culturing.

Isolation and characterization of exosome

Fabrication of PDMS-based microfluidic devices

Nanomaterials synthesis (nano- calcium and graphene oxide), characterize and toxicity testing

Molecular techniques:

Protein extraction and Protein concentration assay, 1D and 2D gel electrophoresis, western blot, ELISA, ICC, IHC, TUNEL assay, comet assay

Animal study:

ICV inoculation of bacteria to Wistar rat, passive avoidance test, water maze test.

- **DATA analysis and bioinformatics:**

Proteomics, metabolomics, RNAseq and microarray data analysis

Work with system biology softwares and teach them

Patents:

- The process of physics controlling the growth of normal and cancer cells, 2021, Iran

## Projects and funding:

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- Behavioral and molecular evaluation of streptozotocin-induced Alzheimer's model mice under the influence of periodontal ligament stem cell secretion treated with Alzheimer's mouse brain homogenates in three-dimensional conditions, 2023 (Grant NO. 31677)
- Evaluation of neuronal structural changes in the cellular model and in the hippocampus of male rats inoculated with *Cutibacterium acnes*, 2023 (Grant NO. 32689)
- Evaluation of the efficacy of injectable hydrogels based on chitosan polymer, graphene quantum dot and exosomes of human umbilical cord blood stem cells in neuronal regeneration in rat model of spinal cord injury, 2022 (Grant NO. 31811)
- Evaluation of antioxidant and anti-apoptotic effects of *Cuscuta epithymum* extract and exosomes containing the extract on glutamic acid-induced cytotoxicity in C6 cell line, 2022 (Grant NO. 29239)
- Investigating the effect of exosomes from unrestricted somatic stem cells (USSC) pretreated with Alzheimer's rat brain extract on inflammatory factors and memory function in the hippocampus of Alzheimer's rats, 2022 (Grant NO. 43002314)
- Assessment of the neuroprotective and neuronal regenerative effect of chitosan hydrogel/graphene quantum dot and periodontal ligament stem cells conditioned medium in Alzheimer's rat model, 2021 (Grant NO. 29356).
- Neuroprotective effects evaluation of exosomes derived from 3D-culture (LOT technique) containing plant crude extract and without extract by carrying out memorial and behavioral test on rats (Grant NO. 31169).
- Study of ABVD and CHOP on tissue biopsy of suspected Lymphoma patients in 3D microfluidic culture system, 2020 (Grant NO. 19001).
- Evaluation of stemness and clonogenic potential of hematopoietic stem cells during co-culture with mesenchymal feeder layer derived exosome under hypoxia condition, 2019 (Grant NO. 18181).
- The Determination of differential proteins of adult with idiopathic thrombocytopenic purpura with positive and negative drug response by proteomics approaches, 2020 (Grant NO. 21480).
- Proteomic study of blood plasma of patients with chronic idiopathic thrombocytopenic purpura to find differential proteins 2020 (Grant NO. 25598).
- Candidating some FDA-approved drugs for treatment of COVID-19 using bioinformatics analysis and repurposing method, 2020 (Grant NO. 22784).
- Evaluation of macrophage, cancer stem cells, cell density and extracellular matrix heterogeneity in tumor-derived spheroids from patients with breast cancer in microfluidic culture system, 2019 (Grant NO. 18814).
- Study on the effects of cold atmospheric plasma on human breast tumor spheroids, 2019 (Grant NO. 17468).

- The comparison of surgical seroma without and with intra-operative electron radiotherapy with boost dose and radical dose on the same patient breast cancer cells, 2018(Grant NO.18350).
- Wound healing using scaffold of chitosan and eggshell and vitamin D,2018(Grant NO.12821).
- Effects of Nano-graphene oxide carrier of anticancer drugs doxorubicin and Herceptin on breast cancer cell line, 2017(Grant NO. 7230).
- Metabolomics study in inhibition of breast cancer metastasis by using Nano-graphene oxide in SKBR3 and MDA-MB231 cell line, 2017(Grant NO. 11029).
- Study of TLR4 antagonist to discover compounds for inhibition of neuropathy by using molecular docking and screening of FDA approved drugs, 2016 (Grant NO. 9237).
- Metabolomics' investigation of blood and urine of Alzheimer's disease patients treated with lavender, 2016(Grant NO.6289).
- Proteomics and bioinformatics study of in situ and metastatic colon cancer,2015(Grant NO. 5283).
- Determination of anti-cancer agents in fluid isolated from human amniotic epithelial cells by proteomic approaches, 2015(Grant NO. 4887).
- Study of the Proteomic Pattern of Cancerous Tissue in Patients with low-grade serous ovarian cancer and comparing it with non-cancerous ovarian, 2015(Grant NO. 6790).

## Supervision of thesis:

- Fabrication of chitosan hydrogel containing nanoliposome-vitamin K2 and its effect on the differentiation of mesenchymal stem cells derived from adipose tissue in an in vivo model of bone damage (PhD thesis, 2023).
- Investigating the efficacy of injectable hydrogels based on chitosan polymer, graphene quantum dot and human umbilical cord blood stem cell exosome in neuronal regeneration in the rat model of spinal cord injury (PhD thesis, 2023).
- Evaluation of neuro-regeneration and anti-inflammatory effects of Unrestricted Somatic Stem Cell (USSC) derived exosome on a rat model of Alzheimer's disease (PhD thesis, 2021).
- Assessment of the neuroprotective and neuronal regenerative effect under the influence of chitosan hydrogel/graphene quantum dot and periodontal ligament stem cells conditioned medium in Alzheimer's rat model (PhD thesis, 2021).
- Study of memory and cellular and molecular alterations in the hippocampus following inoculation of Cutibacterium Acne in male rat(PhD thesis, 2019)

- Evaluation of the Nano Calcium Absorption by Human Breast Cancer Cell line-derived Spheroids (MSc thesis,2019)
- The study of the effect of nano-calcium on 3D breast cancer spheroids(MSc thesis,2019)
- Evaluation of antioxidant and anti-cancer properties of *Artemisia aucheri Boiss* extract in HT-29 colon cancer cells (General Pharmacy thesis,2019)
- Study of ABVD and CHOP on tissue biopsy of suspected Lymphoma patient in the microfluidic device (PhD thesis, 2019).
- Study of TLR4 antagonists to discover compounds from FDA-approved drugs for inhibition of peripheral neuropathy by using of microfluidic system (PhD thesis, 2019).
- Evaluation of quercetin nanodrug in failure of doxorubicin drug resistance in breast cancer cell line MDA-MB231(MSc thesis,2019)
- The effect of mesenchymal stem cells derived exosomes on breast cancer in 3D microfluidic culture model(MSc thesis,2019)
- Evaluation of stemness and clonogenic potential of hematopoietic stem cells during co-culture with mesenchymal feeder layer derived exosome under hypoxia condition (PhD thesis, 2019)
- Study of the effects of atmospheric cold plasma on human breast tumor spheroids(MSc thesis,2019)
- Radiobiological effects of Intra Operative Radiotherapy (IORT) in Breast Cancer patients in the microfluidic system (PhD thesis, 2017).
- Determination of differential proteins in adults with idiopathic thrombocytopenic chronic purpura using proteomic methods (PhD thesis, 2017).
- Identification of anti-cancer substance in the medium derived from human amnion epithelial cells and its mechanism of effect on cancer cells by proteomics approach (PhD thesis, 2016).
- Wound healing using a scaffold of chitosan and a natural source of calcium (MSc thesis, 2016).
- The effect of different functional groups on graphene oxide nanocarriers for loading doxorubicin hydrochloride (MSc thesis, 2015).
- Omics study of the breast cancer cells under the influence of graphene-based materials (PhD thesis, 2015).

## Publications:

- **Books:**

**Lab On a Chip in a Simple Word.**

ISBN: 978-622-7595-18-5, **2021** (In Persian).

**The roles of miRNAs in cancer**

ISBN: 978-964-8858-99-0, **2019** (In Persian).

**Stem cells and its application in the treatment of human diseases.**

ISBN: 978-622-6121-39-2, **2018** (In Persian).

**Biosensor based on microelectromechanical system (MEMS) technology.**

ISBN: 978-600-8493-59-4, **2017** (In Persian).

**Bio-applications of graphene composites: from bench to clinic (Chapter 11), Book chapter in "Advanced 2D Materials (Advanced Materials Book Series)**

ISBN: 9781119242635, **2016** (Wiley).

• **Papers:**

1. Fariba Mohebichamkhorami, Mehrdad Faizi, Matin Mahmoudifard, Arman Hajikarim-Hamedani, Seyedeh Sarvenaz Mohseni, Amirhossein Heidari, Yekta Ghane, Mona Khoramjouy, Maryam Khayati, Rasoul Ghasemi, **Hakimeh Zali**, Simzar Hosseinzadeh, Ebrahim Mostafavi, Microfluidic Synthesis of Ultrasmall Chitosan/Graphene Quantum Dots Particles for Intranasal Delivery in Alzheimer's Disease Treatment, **Small, 2023**
2. Sadaf Dadashkhan, Seyed Amir Mirmotalebisohi, Hossein Poursheykhi, Marzieh Sameni, Sepideh Ghani, Maryam Abbasi, Sima Kalantari, **Hakimeh Zali**, Deciphering crucial genes in multiple sclerosis pathogenesis and drug repurposing: A systems biology approach, **Journal of Proteomics, 2023**
3. S Ghafouri-Fard, SA Teshnizi, BM Hussen, M Taheri, **H Zali**, A review on the role of GHET1 in different cancers, **Pathology-Research and Practice, 2023**
4. Marzieh Sameni, Seyed Amir Mirmotalebisohi, Zeinab Dehghan, Raziye Abooshahab, Yalda Khazaei-Poul, Maryam Mozafar, **Hakimeh Zali**, Deciphering molecular mechanisms of SARS-CoV-2 pathogenesis and drug repurposing through GRN motifs: a comprehensive systems biology study, **3 Biotech, 2023**
5. Mahyar Ghaffari, Sara Razi, Hamidreza Zalpoor, Mohsen Nabi-Afjadi, Fariba Mohebichamkhorami, **Hakimeh Zali**, Association of MicroRNA-146a with Type 1 and 2 diabetes and their related complications, **Journal of Diabetes Research, 2023**
6. Yalda Khazaei-Poul, Seyed Amir Mirmotalebisohi, **Hakimeh Zali**, Zahra Molavi, Samira Mohammadi-Yeganeh, Identification of miR-3182 and miR-3143 target genes involved in the cell cycle as a novel approach in TNBC treatment: a systems biology approach, **Chemical Biology & Drug Design, 2023**
7. Fatemeh Saberi, Zeinab Dehghan, Effat Noori, Zahra Taheri, Marzieh Sameni, **Hakimeh Zali**, Identification of Critical Molecular Factors and Side Effects Underlying the Response to

Thalichthuberine in Prostate Cancer: A Systems Biology Approach, *Avicenna Journal of Medical Biotechnology*, 2023

8. Sima Kalantari, Bahram Kazemi, Raheleh Roudi, **Hakimeh Zali**, Alberto D'Angelo, Ashraf Mohamadkhani, Zahra Madjd, Akram Pourshams, RNA-sequencing for transcriptional profiling of whole blood in early stage and metastatic pancreatic cancer patients, *Cell Biology International*, 2023
9. Marzieh Sameni, Seyed Amir Mirmotalebisohi, Sadaf Dadashkhan, Sepideh Ghani, Maryam Abbasi, Effat Noori, **Hakimeh Zali**, COVID-19: A novel holistic systems biology approach to predict its molecular mechanisms (in vitro) and repurpose drugs, *DARU Journal of Pharmaceutical Sciences*, 2023
10. Shabnam Jeibouei, Forough Shams, Fariba Mohebichamkhorami, Davood Sanooghi, Bahareh Faal, Mohammad Esmaeil Akbari, Hakimeh Zali, Biological and clinical review of IORT-induced wound fluid in breast cancer patients, *Frontiers in Oncology*, 2022
11. S Jeibouei, A Hojat, E Mostafavi, AR Aref, A Kalbasi, V Niazi, **H Zali**, Radiobiological effects of wound fluid on breast cancer cell lines and human-derived tumor spheroids in 2D and microfluidic culture, *Scientific reports*, 2022
12. S Kalantari, B Kazemi, R Roudi, **H Zali**, A D'Angelo, A Mohamadkhani, RNA-Sequencing for transcriptional profiling of whole blood in early-stage and metastatic pancreatic cancer patients, *Cell Biology International*, 2022
13. Zahra Niknam, Faezeh Hosseinzadeh, Forough Shams, Leyla Fath-Bayati, Ghader Nuoroozi, Leila Mohammadi Amirabad, Fariba Mohebichamkhorami, Sahar Khakpour Naeimi, Soudeh 5Ghafouri-Fard, **Hakimeh Zali**, Lobat Tayebi, Yousef Rasmi, Recent advances and challenges in graphene-based nanocomposite scaffolds for tissue engineering application, *Journal of Biomedical Materials Research Part A*, 2022
14. M Pourhadi, **H Zali**, R Ghasemi, S Vafaei-Nezhad, Promising Role of Oral Cavity Mesenchymal Stem Cell-Derived Extracellular Vesicles in Neurodegenerative Diseases, *Molecular Neurobiology*, 2022
15. Fariba Mohebichamkhorami, Zahra Niknam, Mona Khoramjouy, Elmira Heidarli, Rasoul Ghasemi, Simzar Hosseinzadeh, Seyedeh Sarvenaz Mohseni, Arman Hajikarim-Hamedani, Amirhossein Heidari, Yekta Ghane, Matin Mahmoudifard, **Hakimeh Zali**, Mehrdad Faizi, Brain Homogenate of a Rat Model of Alzheimer's Disease Modifies the Secretome of 3D Cultured Periodontal Ligament Stem Cells: A Potential Neuroregenerative Therapy, *Iranian Journal of Pharmaceutical Research*, 2022
16. Masoumeh Pourhadi, Zahra Niknam, Rasoul Ghasemi, Mina Soufi Zomorrod, Vahid Niazi, Mehrdad Faizi, **Hakimeh Zali**, Faraz Mojab, *Cuscuta epithymum* Murr. crude extract pre-conditioning protects C6 cells from L-glutamate-induced neurotoxicity, *BMC Complementary Medicine and Therapies*, 2022
17. Leila Taheran, **Hakimeh Zali**, Kazem Sharifi, Mohsen Yazdani, Mohammad Ajoudanian, Mirshahram Safari, Samira Rajaei, Ali Dabbagh Inhibitory Effects of Dutasteride on TLR4: An In vitro Pain Study, *Iranian Journal of Allergy, Asthma and Immunology*, 2022
18. Yalda Khazaei-Poul, Seyed Amir Mirmotalebisohi, **Hakimeh Zali**, Zahra Molavi, Samira Mohammadi-Yeganeh Identification of miR-3182 and miR-3143 Target Genes Involved in The

Cell Cycle as a Novel Approach in TNBC Treatment: a Systems Biology Approach, *Chemical Biology & Drug Design*, 2022

19. Fariba Mohebichamkhorami, Roya Fattahi, Zahra Niknam, Morteza Aliashrafi, Sahar Khakpour Naeimi, Samira Gilanchi, **Hakimeh Zali**, Periodontal ligament stem cells as a promising therapeutic target for neural damage, *Stem Cell Research & Therapy*, 2022
20. Vahid Niazi, Soudeh Ghafouri-Fard, Javad Verdi, Shabnam Jeibouei, Farshid Karami, Masoumeh Pourhadi, Milad Ahani, Kamran Atarodi, Masoud Soleimani, **Hakimeh Zali**, Mina Soufi Zomorrod, Hypoxia preconditioned mesenchymal stem cell-derived exosomes induce ex vivo expansion of umbilical cord blood hematopoietic stem cells CD133+ by stimulation of Notch signaling ...*Biotechnology Progress*, 2022.
21. Sedigheh Ahmadi-Sakha, Mohsen Sharifi, Vahid Niknam, **Hakimeh Zali**, Production of phenylethanoid glycosides under PEG-induced osmotic stress in *Scrophularia Striata* Boiss. Cell culture in bioreactor, *Industrial Crops and Products*, 2022.
22. Zeinab Dehghan, Seyed Amir Mirmotalebisohi, Marzieh Sameni, Maryam Bazgiri, **Hakimeh Zali**, A Motif-Based Network Analysis of Regulatory Patterns in Doxorubicin Effects on Treating Breast Cancer, a Systems Biology Study, *Avicenna Journal of Medical Biotechnology*, 2022.
23. Sara Razi, Zahra Molavi, Seyed Amir Mirmotalebisohi, Zahra Niknam, Marzieh Sameni, Vahid Niazi, Amirjafar Adibi, Mohsen Yazdani, Mohammad Mehdi Ranjbar, **Hakimeh Zali**, Mesenchymal stem cells in the treatment of new coronavirus pandemic: a novel promising therapeutic approach. *Advanced Pharmaceutical Bulletin*, 2022.
24. Fariba Mohebichamkhorami, Zahra Niknam, Mona Khoramjouy, Elmira Heidarli, Rasoul Ghasemi, Symzar Hosseinzadeh, Seyedeh Sarvenaz Mohseni, Arman Hajikarim-Hamedani, Amirhossein Heidari, Yekta Ghane, Matin Mahmoodifard, **Hakimeh Zali**, Mehrdad Faizi, Brain Homogenate of Rat Model of Alzheimer's Disease Modifies Secretome of 3D Cultured Periodontal Ligament Stem Cells; A Potential Neuroregenerative Therapy, *Iranian Journal of Pharmaceutical Research*, 2022.
25. Seyed Mohammadreza Javadi, Mohammad Abdolhad, Solmaz Hashemi, Mohammadali Khayamian, Mohammad Salemizadeh Parizi, Shohreh Vanaei, Hamidreza Mirzaei, Shabnam Jeibouei, Ali Hojat, **Hakimeh Zali**, Seied Rabi Mahdavi, Mohammad Esmaeil Akbari Effect of Post IORT Wound Fluid Secretion (PIWFS) on the Behavior of Breast Cancer Cells: Stimulator or Inhibitor; Report of an Experimental Study on Breast Cancer, *Archives of Iranian Medicine*, 2022.
26. Sepideh Ghani, Sima Kalantari, Seyed Amir Mirmotalebisohi, Marzieh Sameni, Hossein Poursheykhi, Sadaf Dadashkhan, Maryam Abbasi, **Hakimeh Zali**, Specific Regulatory Motifs Network in SARS-CoV-2-Infected Caco-2 Cell Line, as a Model of Gastrointestinal Infections, *Cellular Reprogramming*, 2022.
27. Shabnam Jeibouei, Ali Hojat<sup>1</sup>, Ebrahim Mostafavi, Amir Reza Aref, Alireza Kalbasi, Vahid Niazi, Mohammad Ajoudanian, Farzaneh Mohammadi, Fariba Saadati, Seyed Mohammadreza Javadi, Forough Shams, Maryam Moghaddam, Farshid Karami, Kazem Sharifi, Farid Moradian, Mohammad Esmaeil Akbari, **Hakimeh Zali**, Radiobiological effects of



wound fluid on breast cancer cell lines and human-derived tumor spheroids in 2D and microfluidic culture, *Scientific Reports*, 2022.

28. Z Shahzeidi, S Hesami Tackallou, L Amjad, **Hakimeh Zali**, A Iranbakhsh, The Effect of Ultraviolet (UV) Radiation on Photosynthetic Pigments and Biochemical Parameters of *Portulaca oleracea*, *Journal Of Horticultural Science*, 2022.
29. Minoo Shahani, Jafar Shakeri, Kambiz Gilany, **Hakimeh Zali**, Ali Tafti, Atieh Akbari, Seyed Hamid Jamaldini Ezabady, Nazanin Ghasemi, Mohammad Esmail Akbari, Dose-time and Source-Dependent Analysis of Intraoperative Radiotherapy-Treated Seroma on Breast Cancer Cell Types: A Pilot Study, *International Journal of Cancer Management*, 2022
30. Jafari, M Rezaei-Tavirani, B Farhadhosseinabadi, **H Zali**, H Niknejad, Human amniotic mesenchymal stem cells to promote/suppress cancer: two sides of the same coin, *Stem Cell Research & Therapy*, 2021.
31. T Tayebi, A Baradaran-Rafii, A Hajifathali, A Rahimpour, **H Zali**, Biofabrication of chitosan/chitosan nanoparticles/polycaprolactone transparent membrane for corneal endothelial tissue engineering, *Scientific Reports*, 2021.
32. Zahra Molavi, Sara Razi, Seyed Amir Mirmotalebisohi, Amirjafar Adibi, Marzieh Sameni, **Hakimeh Zali**, Mohammad Mehdi Ranjbar, Mohsen Yazdani, Identification of FDA approved drugs against SARS-CoV-2 RNA dependent RNA polymerase (RdRp) and 3-chymotrypsin-like protease (3CLpro), drug repurposing approach, *Biomedicine & Pharmacotherapy*, 2021.
33. Z Akbari, F Saadati, H Mahdikia, E Freund, F Abbasvandi, B Shokri, **H Zali**, Antitumor Effects in Gas Plasma-Treated Patient-Derived Microtissues—An Adjuvant Therapy for Ulcerating Breast Cancer? *Applied Sciences*, 2021.
34. A Deilami, Z Niknam, A Golchin, V Niazi, **H Zali**, M Omid, Novel hybrid scaffold for improving the wound repair process: evaluation of combined chitosan/eggshell/vitamin D scaffold for wound healing, *Polymer Bulletin*, 2021.
35. Zeinab Dehghan, Samira Mohammadi-Yeganeh, Marzieh Sameni, Seyed Amir Mirmotalebisohi, **Hakimeh Zali** · Mohammad Salehi, repurposing new drug candidates and identifying crucial molecules underlying PCOS Pathogenesis Based On Bioinformatics Analysis, *DARU Journal of Pharmaceutical Sciences*, 2021.
36. Raheleh Moradpoor, **Hakimeh Zali**, Ahmad Gharebaghian, Mohammad Esmail Akbari, Soheila Ajdari, Mona Salimi, Identification of CCNB2 as A Potential Non-Invasive Breast Cancer Biomarker in Peripheral Blood Mononuclear Cells Using the Systems Biology Approach, *Cell Journal*, 2021.
37. M Mozafar, SA Mirmotalebisohi, M Sameni, **H Zali**, Investigating Neurological Manifestations of SARS-CoV-2, *Journal of Neuroimmune Pharmacology*, 2021.
38. A Jafari, M Rezaei-Tavirani, H Niknejad, **H Zali**, Tumor Targeting by Conditioned Medium Derived from Human Amniotic Membrane: New Insight in Breast Cancer Therapy, *Technology in Cancer Research & Treatment*, 2021.
39. Shabnam Jeibouei, Ali Hojat, Amir Reza Aref, Alireza kalbasi, Maryam Moghaddam, Farzaneh Mohammadi, Seyed Mohammadreza Javadi, Mohammad Ajoudanian, Kazem Sharifi1, Hakimeh Zali, Mohammad Esmail Akbari, Effects of wound fluid on breast cancer-derived

- spheroids in a 3D culture system: a case series study, *Iranian Journal of Pharmaceutical Research*, 2021.
40. S Kalantari, A Pourshams, R Roudi, **H Zali**, M Bandehpour, A Kalantari, Identification of potential common molecular factors of pancreatic cancer and diabetes mellitus using microarray data analysis combined with bioinformatics techniques, *Biomedical and Biotechnology Research Journal (BBRJ)*, 2021.
  41. G Nuoroozi, SA Mirmotalebisohi, M Sameni, Y Ariyanmehr, **H Zali**, Deregulation of microRNAs in oral squamous cell carcinoma, a bioinformatics analysis, *Gene Reports*, 2021.
  42. S Razi, Z Molavi, SA Mirmotalebisohi, Z Niknam, M Sameni, V Niazi, **H. Zali**, Mesenchymal stem cells in the treatment of new coronavirus pandemic: a novel promising therapeutic approach, *Advanced Pharmaceutical Bulletin*, 2021.
  43. Zahra A Jonoush, Masoumeh Farahani, Mahboubeh Bohlouli, Zahra Niknam, Ali Golchin, Shadie Hatamie, Mostafa Rezaei-Tavirani, Meisam Omid, **Hakimeh Zali**, Surface Modification of Graphene and its Derivatives for Drug Delivery Systems, *Mini-Reviews in Organic Chemistry*, 2021.
  44. FS Sadjjadi, N Ahmadi, M Rezaie-Tavirani, **H Zali**, Following up of Surgical Treated Human Liver Cystic Echinococcosis: A Proteomics Approach, *Iranian Journal of Parasitology*, 2021.
  45. V Niazi, B Parseh, M Ahani, F Karami, S Gilanchi, K Atarodi, M Soufi, Communication between stromal and hematopoietic stem cell by exosomes in normal and malignant bone marrow niche, *Biomedicine & Pharmacotherapy*, 2020.
  46. S Guilanchi, **H Zali**, M Faranoush, M Rezaei Tavirani, K Shahriary, Identification of candidate biomarkers for Idiopathic Thrombocytopenic Purpura by Bioinformatics Analysis of Microarray Data, *Iranian Journal of Pharmaceutical Research*, 2020.
  47. M Shahani, J Shakeri, ME Akbari, A Tafti, **H Zali**, N Nafisi, Intraoperative radiotherapy (IORT) induced key molecular pathways in tumor bed of breast cancer patients: a pilot study, 18 (4), 777-784, *International Journal of Radiation Research*, 2020.
  48. Z Niknam, A Golchin, M Rezaei-Tavirani, P Ranjbarvan, H Zali, M Omid, Osteogenic Differentiation Potential of Adipose-Derived Mesenchymal Stem Cells Cultured on Magnesium Oxide/Polycaprolactone Nanofibrous Scaffolds for Improving Bone Tissue, *Advanced Pharmaceutical Bulletin*, 2020.
  49. A Jafari, M Rezaei-Tavirani, S Karami, M Yazdani, **H Zali**, Z Jafari, Cancer Care Management During the COVID-19 Pandemic, *Risk Management and Healthcare Policy*, 2020.
  50. PV Maghvan, S Jeibouei, ME Akbari, V Niazi, F Karami, A Rezvani, Personalized medicine in colorectal cancer, *Gastroenterology and Hepatology from bed to bench*, 2020.
  51. NasrinAmiri-Dashatana, MostafaRezaei-Tavirani, **Hakimeh Zali**, MehdiKoushki, Nayebali Ahmadi, Quantitative proteomic analysis reveals differentially expressed proteins in *Leishmania major* met cyclogenesis, *Microbial Pathogenesis*, 2020.

52. M Farahani, M Rezaei-Tavirani, **H Zali**, S Hatamie, N Ghasemi, Systems toxicology assessment revealed the impact of graphene-based materials on cell cycle regulators, *J Biomed Mater Res*, **2020**.
53. Morteza Aliashrafi, Mohammad Nasehi, Mohammad-Reza Zarrindast, Mohammad Taghi Joghataei, **Hakimeh Zali\***, Seyed Davar Siadat Association of microbiota-derived propionic acid and Alzheimer's disease; bioinformatics analysis, *Journal of Diabetes & Metabolic Disorders*, **2020**.
54. Seyed Amir Mirmotalebisohi, Zahra Molavi, Sara Razi, Marzieh Sameni, Farshid Karami, Mohsen Yazdani, Mohammad Mehdi Ranjbar, Vahid Niazi, Ameneh Jafari, Amir Jafar Adibi, Payman Firouzabadi, **Hakimeh Zali**, Identification of the crucial regulatory elements modulating the host respiratory response to SARS-CoV-2 using motif detection, A systems biology approach, *Regeneration, Reconstruction & Restoration*, **2020**.
55. Samira Bahrami, Bahram Kazemi\*, **Hakimeh Zali**, Peter C Black, Abbas Basiri, Mojgan Bandehpour, Mehdi Hedayati, Amirhossein Sahebkar, Discovering Therapeutic Protein Targets for Bladder Cancer Using Proteomic Data Analysis, *Current Molecular Pharmacology*, **2020**.
56. Samira Bahrami, Ali Gheysarzadeh, Mehdi Sotoudeh, Mojgan Bandehpour, **Hakimeh Zali**, Mehdi Hedayati, Abbas Basiri, The Association Between Gelsolin-like Actin-capping Protein (CapG) Overexpression and Bladder Cancer Prognosis, *Urology Journal*, **2020**.
57. M Gholizade, J Fayazi\*, **H Zali**, Y Asgari, Transcriptomic Changes in the Rumen Epithelium of Cattle after the Induction of Acidosis, *Archives of Razi Institute*, **2020**.
58. Maryam Gholizadeh, Jamal Fayazi\*, Yazdan Asgari, **Hakimeh Zali**, Lars Kaderali, Reconstruction and Analysis of Cattle Metabolic Networks in Normal and Acidosis Rumen Tissue, *Animals*, **2020**.
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## Congress presentation:

- **Hakimeh Zali**, The role of microbiota in pathogenesis of Alzheimer's disease, 11 feb 2023, Tehran, 11th basic and clinical neuroscience congress
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- **Hakimeh Zali**, Effect of microbiota and probiotics in Neuro-developmental diseases, 22 Feb 2023, Tehran, 5th International Conference on Probiotics and Functional Foods
- **Hakimeh Zali**, Emerging variants of SARS-COV 2 System Biology for Biomarker, 21-24 Feb 2023, Urmia, 1st International Congress of Biomarkers
- **Hakimeh Zali**, Brain microbiota is the cause or consequence of Alzheimer disease pathology? December, 22-24, 2021, Tehran,10th basic and clinical neuroscience congress
- **Hakimeh Zali**, Systems toxicology assessment revealed the impact of graphene based materials on cell cycle regulators, Desember,3, USA, 2020, Webinar on material sciences
- **Hakimeh Zali**, Association of microbiota-derived propionic acid and Alzheimer's disease; bioinformatics analysis, Desember,9, Tehran, 2020, 9th basic and clinical neuroscience congress
- **Hakimeh Zali**, Neurological Injury in Covid-19 Patients, Desember,9, Tehran, 2020, 9th basic and clinical neuroscience congress
- **Hakimeh Zali**, Genetic variation associated with cetuximab resistance in Iranian colorectal cancer penitents, 10th World Congress on Precision and Personalized Medicine, October 15, 2018, Osaka, Japan, Oral presentation
- **Hakimeh Zali**, "Comparison of Serum Human Epididymis Protein (HE4), Carbohydrate Antigen 125(CA125) a Risk of Ovarian Malignancy Algorithm (ROMA) as Markers in Ovarian Cancer: A Systematic Review and a Meta-analysis", 10th World Congress on Precision and Personalized Medicine, October 15, 2018, Osaka, Japan, Oral presentation
- **Hakimeh Zali**, Influence of wound fluid from breast cancer patients treated and untreated with intra-operative radiotherapy (IORT) on tumor spheroid, ILEXIUM, July 8, 2018, Manheim, Germany, Oral presentation
- **Hakimeh Zali**, Influence of intra-operative radiotherapy (IORT) on tumor bed protein composition of exosome in breast cancer patients, ISIORT, July 6, 2018, Manheim, Germany, Oral presentation
- **Hakimeh Zali** "Proteomics and corneal disease" The 5thMolecular and Regenerative Ophthalmology congress, April 25, 2015, Tehran, Iran, Oral presentation



- **Hakimeh Zali**” Systems Biology” The first student symposium on the role of basic science on health promotion, oral presentation, march, 8, 2012, Tehran-Iran, Oral presentation
- **Hakimeh Zali,**” Proteomics approach of human aging in vitro” The National Congress of Proteomics, 2010, Shiraz-Iran, oral presentation