

Curriculum Vitae

Personal Information

Name: Yalda

Surname: Rahbar Saadat

Gender: Female

Nationality: Iranian

Email: rahbarsaadat@tbzmed.ac.ir, y.rahbarsaadat@yahoo.com

ORCID: [0000-0002-3295-404X](https://orcid.org/0000-0002-3295-404X)

Scopus Author ID: 56016819800

Current position

- Assistant Professor, Kidney Research Center, Tabriz University of Medical Sciences, Tabriz, Iran (2024-present)

Education

- Ph.D., Applied Cell Sciences, Tabriz University of Medical Sciences (2016-2020) (Thesis score: 19.55/20)
- M.Sc., Cellular & Molecular Biology (Microbiology), Islamic Azad University of Zanjan, Iran (2010-2013) (Thesis score: 20/20)
- B.Sc., Biology, Tabriz University, Tabriz, Iran (2005-2009)

Honors & Awards

- Listed in the top 2% of scientists worldwide (single recent year impact)-Issued by Stanford University/Elsevier –September 2024
- Listed in the top 2% of scientists worldwide (single recent year impact)-Issued by Stanford University/Elsevier -October 2023

- Wiley-IUBMB BioFactors Young Investigator Award (July 2021)
- Prominent Researcher Student from Secretary of the National Student Research Committee of the Deputy of Research and Technology, Ministry of Health and Medical Education, Iran (May 2020)

Memberships

- Gifted and Talented Students' Office, Tabriz University of Medical Sciences (2020-2021)
- Iranian Society of Microbiology (ISM) (2011 – 2016)
- Young Researchers and Elite Club, Islamic Azad University of Tabriz (2011 – 2013)

Patent

- An Iranian patent numbered as 87416 on development of **microRNA Extraction from Clinical Samples** Kit (December 2015).

Database Submission

- **Rahbar Saadat Y.**, Bastani S., Zununi vahed S., Barar J., Barzegari A., Omid Y. *Lactococcus lactis* subsp. *lactis* strain RCPN1395, Accession No.: KX583683, 16S ribosomal RNA gene, partial sequence (July-2016).
- Barzegari A., Zununi Vahed S., **Rahbar Saadat Y.** *Lactococcus lactis* strain TBZ1, Accession No.: KU291415, 16S ribosomal RNA gene, partial sequence (December-2015).

Publications

1. Memar MY., Vosughi M., **Rahbar Saadat Y.**, et al. Virulence Genes and Antibiotic Susceptibility Patterns of *Escherichia coli* Isolated from Nosocomial Urinary Tract Infections in the Northwest of Iran During 2022–2023: A Cross-sectional Study. *Health Science Reports*. 2024,7(11):e70149.
2. Zununi Vahed S., Khatibi SM., **Rahbar Saadat Y.**, et al. Introducing Effective Genes in Lymph Node Metastasis of Breast Cancer Patients Using SHAP Values Based on the mRNA Expression Data. *Plos one*. 2024,19(8):e0308531.

3. Hekmatshoar Y., **Rahbar Saadat Y.**, et al. Identification of Common Genes and Pathways Underlying Imatinib and Nilotinib Treatment in CML: A Bioinformatics Study. *Nucleosides, Nucleotides & Nucleic Acids*. 2023, 1-21.
4. Hosseiniyan Khatibi SM, **Rahbar Saadat Y.**, et al. Decoding the Possible Molecular Mechanisms in Pediatric Wilms Tumor and Rhabdoid Tumor of the Kidney through Machine Learning Approaches. *Fetal and Pediatric Pathology*. 2023, 1-20.
5. Hekmatshoar Y., Gurel AK., Ozkan T., **Rahbar Saadat Y.**, et al. Phenotypic and Functional Characterization of Subpopulation of Imatinib Resistant Chronic Myeloid Leukemia Cell Line. *Advances in Medical Sciences*. 2023, 68(2):238-48.
6. Hejazian SM., Ardalan M., Hosseiniyan Khatibi SM., **Rahbar Saadat Y.**, et al. Biofactors Regulating Mitochondrial Function and Dynamics in Podocytes and Podocytopathies. *Journal of Cellular Physiology*. 2023,1–22.
7. Abbasi A., Bazzaz S., Da Cruz AG., Khorshidian N., **Rahbar Saadat Y.**, et al. A Critical Review on *Akkermansia muciniphila*: Functional Mechanisms, Technological Challenges, and Safety Issues. *Probiotics and Antimicrobial Proteins*. 2023, 1-23.
8. Hejazian SM., **Rahbar Saadat Y.***, et al. Circular RNAs as Novel Biomarkers in Glomerular Diseases. *Archives of Physiology and Biochemistry*. 2023, 16:1-3. (***Shared First Authorship**)
9. **Rahbar Saadat Y.**, et al. Ischemic Tubular Injury: Oxygen-sensitive Signals and Metabolic Reprogramming. *Inflammopharmacology*. 2023, 1-13.
10. Memar MY., **Rahbar Saadat Y.**, et. al. Cytotoxicity and Biocompatibility of Meropenem-loaded Graphene Oxide and its Antibacterial Effects against Carbapenem-Resistant Gram-negative Bacteria. *OpenNano*. 2023, 100155.
11. Abbasi A., Bazzaz S., A. Ibrahim S., Hekmatdoost A., Hosseini H., Sabahi S., Sheykhsaran E., **Rahbar Saadat Y.**, et al. A Critical Review on the Gluten-Induced Enteropathy/Celiac Disease: Gluten-Targeted Dietary and Non-Dietary Therapeutic Approaches. *Food Reviews International*. 2023, 1-41.
12. Abbasi A., Rahbar Saadat T., **Rahbar Saadat Y.***, Microbial Exopolysaccharides– β -glucans–as Promising Postbiotic Candidates in Vaccine Adjuvants, *International Journal of Biological Macromolecules*, 2022. (***Corresponding Author**)

13. Barati A., **Rahbar Saadat Y.**, et al. Eplerenone Reduces Renal Ischaemia/Reperfusion Injury by Modulating Klotho, NF- κ B and SIRT1/SIRT3/PGC-1 α Signaling Pathways. *Journal of Pharmacy and Pharmacology*, 2022.
14. Ardalan M., Ahmadian E., Hosseiniyan M., **Rahbar Saadat Y.**, et al. Microbiota and Glomerulonephritis; an Immunological Point of View. *The American Journal of the Medical Sciences*. 2022.
15. **Rahbar Saadat Y.**, Barar J. Exosomes as Versatile Nanoscaled Biocompartments in Cancer Therapy and/or Resistance. *BioImpacts*. 2022.
16. Dalir E., Ahmadian S, Bohlouli S., Jafarmadar F., Ghorbani N., Zununi Vahed S, **Rahbar Saadat Y.**, et al. Effect of Curcumin on Head and Neck Squamous Cell Carcinoma Cell Line HN5. *Current Molecular Pharmacology*. 2022.
17. Ahmadian E, **Rahbar Saadat Y.**, et al. The Role of Cytokines in Nephrotic Syndrome. *Mediators of Inflammation*. 2022.
18. Maleki Dizaj S., Alipour M., Dalir E., Ahmadian E., Eftekhari A., Forouhandeh H., **Rahbar Saadat Y.**, et al. Curcumin Nanoformulations: Beneficial Nanomedicine against Cancer. *Phytotherapy Research*. 2022.
19. Maleki Dizaj S., Sharifi S., Shahi Sh., Montazersaheb S., Salatin S., Ahmadian E., Khezri Kh., **Rahbar Saadat Y.**, et al. The Most Important Consideration in Clinical Usage of Curcumin. *Eurasian Chemical Communications*. 2022.
20. Samiei M., Alipour M., Khezri Kh., **Rahbar Saadat Y.**, et al. Application of Collagen and Mesenchymal Stem Cells in Regenerative Dentistry. *Current Stem Cell Research & Therapy*. 2022.
21. Hekmatshoar Y., Ozkan T., **Rahbar Saadat Y.*** Evidence for Health-promoting Properties of *Lepidium sativum* L.: An Updated Comprehensive Review. *Turkish Journal of Pharmaceutical Sciences*. 2021. (*Corresponding Author)
22. Ardalan M., Hosseiniyan Khatibi SM., **Rahbar Saadat Y.**, et al. Migrasomes and Exosomes; Different Types of Messaging Vesicles in Podocytes. *Cell Biology International*. 2021.

23. Aamazadeh F., Barar J., **Rahbar Saadat Y.**, et al. *In vitro* Evaluation of Cytotoxic and Apoptotic Activities of Ethanolic Extract of Sweet Apricot Kernel on PANC-1 Pancreatic Cancer Cells. *Nutrition & Food Science*. 2021.
24. **Rahbar Saadat Y.**, et al. Host serine proteases: A potential targeted therapy for COVID-19 and influenza. *Frontiers in Molecular Biosciences*. 2021, 816.
25. Khezri K., Maleki Dizaj S., **Rahbar Saadat Y.**, et al. Osteogenic Differentiation of Mesenchymal Stem Cells via Curcumin-Containing Nanoscaffolds. *Stem Cells International*. 2021.
26. Zununi Vahed S., **Rahbar Saadat Y.**, et al. Thrombotic Microangiopathy during Pregnancy. *Microvascular Research*. 2021.
27. Abbasi A., Ghasempour Z., Sabahi S., Samadi Kafil H., Hasannezhad P., **Rahbar Saadat Y.**, et al. The Biological Activities of Postbiotics in Gastrointestinal Disorders. *Critical Reviews in Food Science and Nutrition*. 2021.
28. **Rahbar Saadat Y.**, et al. Yeast Exopolysaccharides and Their Physiological Functions. *Folia Microbiologica*. 2021.
29. **Rahbar Saadat Y.**, et al. Prophylactic Role of *Lactobacillus Paracasei* Exopolysaccharides on Colon Cancer Cells through Apoptosis not Ferroptosis. *Pharmaceutical Sciences*. 2021.
30. **Rahbar Saadat Y.**, et al. Glucocorticoid Receptors and their Upstream Epigenetic Regulators in Adults with Steroid-resistant Nephrotic Syndrome. *BioFactors*. 2020.
31. **Rahbar Saadat Y.**, et al. Molecular Pathophysiology of Acute Kidney Injury: The Role of Sirtuins and their Interactions with Other Macromolecular Players. *Journal of Cellular Physiology*. 2020.
32. Negahdari R., Bohlouli S., Sharifi S., Maleki Dizaj S., **Rahbar Saadat Y.**, et al. Therapeutic Benefits of Rutin and its Nanoformulations. *Phytotherapy Research*. 2020.
33. Hejazian SM., **Rahbar Saadat Y.***, et al. Dicer and Drosha Expression in Patients with Nephrotic Syndrome. *BioFactors*. 2020. (*Shared First Authorship)

34. Hosseiniyan Khatibi SM., Kheyrolahzadeh K., Barzegari A., **Rahbar Saadat Y.**, et al. Medicinal Signaling Cells: A Potential Antimicrobial Drug Store. *Journal of Cellular Physiology*, 2020.
35. Ahmadian E., **Rahbar Saadat Y.***, et al. Pre-Eclampsia: Microbiota Possibly Playing a Role. *Pharmacological Research*, 2020. (***Shared First Authorship**)
36. Aamazadeh F., Ostadrahimi A., ***Rahbar Saadat Y.**, et al. Bitter Apricot Ethanolic Extract Induces Apoptosis through Increasing Expression of Bax/Bcl-2 Ratio and Caspase-3 in PANC-1 Pancreatic Cancer Cells. *Molecular Biology Reports*, 2020. (***Shared First Authorship**)
37. Eftekhari A., Maleki Dizaj S., Sharifi S., Salatin S., **Rahbar Saadat Y.**, et al. The Use of Nanomaterials in Tissue Engineering for Cartilage Regeneration; Current Approaches and Future Perspectives. *International Journal of Molecular Sciences*, 2020.
38. **Rahbar Saadat Y.**, et al. Gut Microbiota; an Overlooked Effect of Phosphate Binders. *European Journal of Pharmacology*, 2020.
39. **Rahbar Saadat Y.**, et al. Modulatory Role of Exopolysaccharides of *Kluyveromyces marxianus* and *Pichia kudriavzevii* as Probiotic Yeasts from Dairy Products in Human Colon Cancer Cells. *Journal of Functional Foods*, 2020.
40. **Rahbar Saadat Y.**, et al. Modulatory Role of Vaginal-Isolated *Lactococcus lactis* on the Expression of miR-21, miR-200b, and TLR-4 in CAOv-4 Cells and in Silico Revalidation. *Probiotics and Antimicrobial Proteins*, 2019.
41. Hekmatshoar Y., **Rahbar Saadat Y.***, et al. The Impact of Tumor and Gut Microbiotas on Cancer Therapy: Beneficial or Detrimental?. *Life Sciences*, 2019. (***Shared First Authorship**)
42. **Rahbar Saadat Y.**, et al. A Comprehensive Review of Anticancer, Immunomodulatory and Health Beneficial Effects of the Lactic Acid Bacteria Exopolysaccharides. *Carbohydrate Polymers*, 2019.
43. **Rahbar Saadat Y.**, et al. The Role of Microbiota in the Pathogenesis of Lupus: Dose it Impact Lupus Nephritis?. *Pharmacological Research*, 2019.

44. Zununi Vahed S., Moghaddas Sani H., **Rahbar Saadat Y.**, et al. Type 1 Diabetes: Through the Lens of Human Genome and Metagenome Interplay. *Biomedicine & Pharmacotherapy*, 2018.
45. Ezzati Nazhad Dolatabadi J., Azami A., Mohammadi A., Hamishehkar H., Panahi-Azar V., **Rahbar Saadat Y.**, et al. Formulation, Characterization and Cytotoxicity Evaluation of Ketotifen-loaded Nanostructured Lipid Carriers. *Journal of Drug Delivery Science and Technology*, 2018.
46. Roshanravan N., Mahdavi R., Asghari Jafarabadi M., Alizadeh E., Ghavami A., **Rahbar Saadat Y.**, et al. The Effects of Sodium Butyrate and High-performance Inulin Supplementation on the Promotion of Gut Bacterium *Akkermansia muciniphila* Growth and Alterations in miR-375 and KLF5 Expression in Type 2 Diabetic Patients: A Randomized, Double-blind, Placebo-controlled Trial. *European Journal of Integrative Medicine*, 2018.
47. Roshanravan N., Mahdavi R., Alizadeh E., Ghavami A., **Rahbar Saadat Y.**, et al. The Effects of Sodium Butyrate and Inulin Supplementation on Angiotensin Signaling Pathway via Promotion of *Akkermansia muciniphila* Abundance in Type 2 Diabetes; A Randomized, Double-blind, Placebo-controlled Trial, *Journal of Cardiovascular and Thoracic Research*, 2017.
48. Zununi Vahed S., Barzegari A., **Rahbar Saadat Y.***, et al. *Leuconostoc mesenteroides*-derived Anticancer Pharmaceuticals Hinder Inflammation and Cell Survival in Colon Cancer Cells by Modulating NF- κ B/AKT/PTEN/MAPK Pathways, *Biomedicine & Pharmacotherapy*, 2017. (***Shared First Authorship**)
49. Mahmoodpoor F., **Rahbar Saadat Y.***, et al. The Impact of Gut Microbiota on Kidney Function and Pathogenesis, *Biomedicine & Pharmacotherapy*, 2017. (***Shared first authorship**)
50. Nemati E., Azami A., Mokhtarzadeh A., **Rahbar Saadat Y.**, et al. Formulation and Characterization of Ethambutol Loaded Nanostructured Lipid Carrier, *Latin American Journal of Pharmacy*, 2017.
51. Rodriguez Ruiz V., Barzegari A., Zuluaga M., Zunooni Vahed S., **Rahbar Saadat Y.**, et al., Potential of Aqueous Extract of Saffron (*Crocus sativus L.*) in Blocking the Oxidative Stress by Modulation of Signal Transduction in Human Vascular Endothelial Cells, *Journal of Functional Foods*, 2016.

52. **Rahbar Saadat Y.**, et al. Cyto/Genotoxic Effects of *Pistacia atlantica* Resin, a Traditional Gum, *DNA and Cell Biology*, 2016.
53. Zununi Vahed S., Barzegari A., **Rahbar Saadat Y.**, et al. A MicroRNA Isolation Method from clinical Samples, *BioImpacts*, 2016.
54. **Rahbar Saadat Y.**, et al. An Update to DNA Ladder Assay for Apoptosis Detection, *BioImpacts*, 2015.
55. **Rahbar Saadat Y.**, et al. Prevalence of Enterotoxigenic *Staphylococcus aureus* in Organic Milk and Cheese in Tabriz, Iran. *Iranian Journal of Microbiology*, 2014.

Book Chapters

1. Zununi Vahed S., Ardalani M., **Rahbar Saadat Y.*** Nanomedicine in Nephrology and Urinary Tract Infection. *Nanopharmacology and Nanotoxicology: Clinical and Methods*. 2023. Bentham Science. (***Corresponding Author**)
2. Sharifi S., Alipour M., Abedi A., **Rahbar Saadat Y.**, Maleki Dizaj S. Advances in Dentistry *Nanopharmacology Nanopharmacology and Nanotoxicology: Clinical and Methods*. 2023. Bentham Science.
3. Memar MY., **Rahbar Saadat Y.**, et al. Probiotics Action Against Biofilms. In *Antibiofilm Strategies*. 2022. Springer, Cham.

Conferences

1. Hekmatshoar Y., Karadag Gurel A., Ozkan T., **Rahbar Saadat Y.**, et al. Characterization of Subpopulation of Imatinib Resistant Chronic Myeloid Leukemia Cell Line Displaying Adherent Phenotype, **2nd International Oncological Emergencies Congress**, 11-13 November 2022. Usak, Turkey. (**Oral**)
2. **Rahbar Saadat Y.**, et al. Implication of Plant-derived Extracellular Vesicles in Cancer Therapy, **International Oncological Emergencies Congress**, 07-10 October 2021. Istanbul, Turkey. (**Oral**)
3. Zununi Vahed S., Hejazian M., **Rahbar Saadat Y.**, et al. Increased Levels of microRNA-15 in Peripheral Blood Mononuclear Cells of Adult Patients with Drug-resistant Nephrotic Syndrome, **ISN World Congress of Nephrology (WCN)**, 26-29 March 2020, Abu Dhabi, UAE. (**Poster**)

4. **Rahbar Saadat Y.**, et al. Expression Levels of MicroRNA-193 in Plasma and Peripheral Blood Cells of Adult Patients with Primary Nephrotic Syndrome, *17th International Congress of Nephrology, Dialysis and Transplantation*, 19-22 November 2019, Tabriz, Iran. **(Poster)**
5. Hejazian M., **Rahbar Saadat Y.**, et al. Evaluation of miR-186 Expression Levels in Blood Samples of Patients with Nephrotic Syndrome, *3rd International and 11th National Biotechnology Congress of Islamic Republic of Iran*, 1-3 September 2019, Tehran, Iran. **(Poster)**
6. Hejazian M., Samadi N., **Rahbar Saadat Y.**, et al. Increased Levels of Cellular and Cell-free miR-30c in Blood Samples of Patients with Nephrotic Syndrome, *3rd International and 11th National Biotechnology Congress of Islamic Republic of Iran*, 1-3 September 2019, Tehran, Iran. **(Poster)**
7. Amazadeh F., Barar J., **Rahbar Saadat Y.**, et al. Bitter Apricot (*Prunus Armeniaca L.*) Seed Extract Induces Apoptosis of Human Pancreatic Cancer Cells, *The 3rd International & 15th Iranian Nutrition Congress*, 19-21 December 2018, Tehran, Iran. **(Poster)**
8. Hejazian M., **Rahbar Saadat Y.**, et al. Impact of Gut Microbiota on the Pathogenesis or Treatment of Lupus Nephritis, *The 4th International Congress of Nephrology and Urology*, 21-23 November 2018, Tehran, Iran. **(Poster)**
9. Zununi Vahed S., **Rahbar Saadat Y.**, et al. MicroRNA-148a, a Potentially Reliable Biomarker Associated with Renal Allograft Dysfunction, *3rd International Congress of Organ Transplantation & 16th International Congress of Nephrology, Dialysis, and Transplantation*, 16-19 May 2017, Shiraz, Iran. **(Poster)**
10. Zununi Vahed S., **Rahbar Saadat Y.**, et al. Elevated Levels of miR-423 in Plasma Samples of Renal Transplant Recipients with Interstitial Fibrosis and Tubular Atrophy, *3rd International Congress of Organ Transplantation & 16th International Congress of Nephrology, Dialysis, and Transplantation*, 16-19 May 2017, Shiraz, Iran. **(Oral)**
11. **Rahbar Saadat Y.**, et al. The Effect of Vaginal Isolated *Lactococcus lactis* on Oncomirs (miR-21 and miR-200b) and Cell Signaling in Ovarian Cancer Cell Line, *41st FEBS Congress*, 3-8 September 2016, Kuşadası, Turkey. **(Poster)**
12. **Rahbar Saadat Y.**, et al. Detection of enterotoxigenic *Staphylococcus aureus* isolates in organic milk and cheese in Tabriz, Iran, *21st Iranian Congress on Infectious Diseases & Tropical Medicine*, 19- 23 January 2013, Tehran, Iran. **(Oral)**

13. **Rahbar Saadat Y.**, et al. Isolation and detection of *Staphylococcus aureus* from organic milk and cheese in Tabriz and study their susceptibility to antimicrobial agents, **6th Iranian Congress of Clinical Microbiology & the 1st International Congress of Clinical Microbiology**, 2-4 October 2012, Mashhad, Iran. **(Poster)**