

Curriculum Vitae

Full name: Sepideh Zununi Vahed

Date of Birth: 28/08/1979

Email: sepide.zununi@gmail.com

<https://Orcid.org/0000-0003-0179-4562>

Author ID: 29167596000



https://isid.research.ac.ir/Sepideh_ZununiVahed

<https://www.scopus.com/authid/detail.uri?authorId=29167596000>

<https://scholar.google.com/citations?user=hQPxdjQAAAAJ&hl=en&oi=ao>

Profession

- Kidney Research Center, Tabriz University of Medical Science, Tabriz, Iran.
- Researcher at Research Center for Pharmaceutical Nanotechnology (RCPN), Tabriz University of Medical Science, Iran.

Education

• **Ph.D. – Medical Biotechnology**

School of Advanced Biomedical Sciences (SABS). Tabriz University of Medical Science, Tabriz, IRAN (2010-2016).

Dissertation: Study of correlation between miR-21, miR-29b and miR-142-3p expression levels and progression of Tubulointerstitial Fibrosis and Tubular Atrophy (IFTA) in kidney transplant recipients under the supervision of Dr Samadi and Dr Ardalan.

• **M.Sc. – Cellular and Molecular Biology**

(GPA: 17.25 / 20)

Department of Biology, Faculty of Science, Azarbayjan University of Tarbyat Moallem, Iran (2005-2008)

Dissertation: ‘Study of presence & genetic biodiversity of *Halomonadaceae* bacteria in Urmia Lake’ under the supervision of Dr. M. S. Hejazi, and Dr. Chaparzadeh.

• **B.Sc. - General Biology**

(GPA: 16.25 / 20)

Tabriz University – Tabriz, Iran (1997-2001).

Patents

- An Iranian patent numbered as 87416 on Development of **microRNA Extraction from clinical samples Kit** (2016).
- An Iranian patent numbered as 69786 on Development of **DNA Extraction from blood Kit** (2011).

- An Iranian patent numbered as **PTCC 1714** on introduction of **novel bacterial strain belonging to *Halomonas* genus** in Persian Type Culture Collection, Iranian Research Organization for Science and Technology (I.R.O.S.T.) (Agust-2008).

Journal Publications

1. The possible association of IL-6R gene polymorphisms in the development of diabetic nephropathy. E Ebrat, SM Hejazian, E Ahmadian, **SZ Vahed**, M Mobasseri, M Ardalan. *Current Diabetes Reviews* 20 (8), 55-59 1, 2024
2. Introducing effective genes in lymph node metastasis of breast cancer patients using SHAP values based on the mRNA expression data, **SZ Vahed**, SMH Khatibi, YR Saadat, M Emdadi, B Khodaei, MM Alishani, *PLOS ONE* 19 (8), e0308531
2024
3. Effectiveness of edaravone in preventing contrast-induced nephropathy in high-risk patients undergoing coronary angiography: A randomized, double-blind trial, A Esmailnejad, **S Zununi Vahed**, SM Hejazian, N Aslanabadi, *Pharmacology Research & Perspectives* 12 (4), e1228 , 2024
4. Functional Mechanisms of Dietary Crocin Protection in Cardiovascular Models under Oxidative Stress. **S Zununi Vahed**, M Zuluaga Tamayo, V Rodriguez-Ruiz, O Thibaudeau, *Pharmaceutics* 16 (7), 840, 2024
5. The impacts of dietary antioxidants on cardiovascular events in hemodialysis patients: An update on the cellular and molecular mechanisms, **S Zununi Vahed**, SM Hejazian, M Ardalan, F Anagnostou, G Pavon-Djavid, *Nutrition Reviews*, nuac039
1 2024
6. Podocyte-specific proteins in urinary extracellular vesicles of patients with IgA nephropathy: Vasin and ceruloplasmin., N Farzamikia, SM Hejazian, S Mostafavi, B Baradaran, **SZ Vahed**, *BioImpacts* 14 (3), 2024
7. An update on Glycerophosphodiester Phosphodiesterases; From Bacteria to Human SM Hejazian, S Pirmoradi, **S Zununi Vahed**, R Kumar Roy, *The Protein Journal* 43 (2), 187-199 2 2024
8. Effects of fingolimod on heart injury induced by renal ischemia-reperfusion. B Niknafs, Y Bagheri, SM Hejazian, P Niknafs, N Roshanravan, M Ardalan, ...*Sciences*, 46
9. The frequency of peripheral PD-1+ TCD4+ cells is reversely associated with serum creatinine levels in recipients of kidney allografts. A Mardomi, M KarajiBani, F Farnood, SZ Vahed, M Ardalan. *Transplant Immunology* 81, 101946, 2023
10. Uncovering key molecular mechanisms in the early and late-stage of papillary thyroid carcinoma using association rule mining algorithm, SM Hosseiniyan Khatibi, S

Zununi Vahed, H Homaei Rad, M Emdadi, Plos one 18 (11), e0293335

2023

11. Decoding the Possible Molecular Mechanisms in Pediatric Wilms Tumor and Rhabdoid Tumor of the Kidney through Machine Learning Approache, SM Hosseiniyan Khatibi, Y Rahbar Saadat, SM Hejazian, S Sharifi, ...Fetal and Pediatric Pathology 42 (6), 825-844 2023
12. Peripheral blood mononuclear cells expression of miR-200c, miR-125b, miR-27b, miR-203, and miR-155 in patients with significant or insignificant coronary artery stenosis. Z Saadatian, Y Mansoori, L Nariman-Saleh-Fam, A Daraei, **SZ Vahed**, ... Scientific Reports 13 (1), 18438 2023
13. Biofactors regulating mitochondrial function and dynamics in podocytes and podocytopathies, SM Hejazian, M Ardalan, SM Hosseiniyan Khatibi, Y Rahbar Saadat, ...Journal of Cellular Physiology 238 (10), 2206-2227 3 2023
14. Interventions for decreasing the risk of recurrent IgA nephropathy: A systematic review and meta-analysis. A Sani, K Movalled, A Kamanaj, S Hassannezhad, H Hosseinifard, ..Transplant Immunology 80, 101878 2023
15. Unraveling the link between PTBP1 and severe asthma through machine learning and association rule mining method. S Pirmoradi, SM Hosseiniyan Khatibi, **S Zununi Vahed**, H Homaei Rad, .Scientific Reports 13 (1), 15399 2023
16. Effect of pioglitazone on proteinuria and cardiovascular events in patients with diabetic nephropathy. SM Hejazian, **SZ Vahed**, NK Haghighi, B Niknafs, F Farnood
17. Journal of Renal Injury Prevention 2023.
18. Ischemic tubular injury: oxygen-sensitive signals and metabolic reprogramming. Y Rahbar Saadat, SM Hosseiniyan Khatibi, A Sani, **S Zununi Vahed**, Inflammopharmacology 31 (4), 1657-1669 5 2023
19. Cytotoxicity and biocompatibility of Meropenem-loaded graphene oxide and its antibacterial effects against carbapenem-resistant Gram-negative bacteriaMY Memar, YR Saadat, SM Dizaj, M Yekani, SM Hejazian, B Niknafs, .OpenNano 12, 100155 1 2023
20. TTP-like syndrome and its relationship with complement activation in critically ill patients with COVID-19: A cross-sectional study. M Ardalan, M Moslemi, A Pakmehr, SZ Vahed, A Khalaji, H Moslemi, ..Heliyon 9 (6) 2023

21. Prazosin protects the liver against renal ischemia/reperfusion injury in rats F Khajepour, F Mahmoodpoor, E Jafari, F Kakaei, F Bahraminia, .Drug Research 73 (05), 289-295 1 2023
22. Eplerenone reduces renal ischaemia/reperfusion injury by modulating Klotho, NF- κ B and SIRT1/SIRT3/PGC-1 α signalling pathways. A Barati, Y Rahbar Saadat, SM Meybodi, S Nouraei, K Moradi, .Journal of Pharmacy and Pharmacology 75 (6), 819-827 12 2023
23. Effect of curcumin on the head and neck squamous cell carcinoma cell line HN5. ED Abdolahinia, S Ahmadian, S Bohlouli, FJ Gharehbagh, NG Jahandizi, Current Molecular Pharmacology 16 (3), 374-380 5 2023
24. Circular RNAs as novel biomarkers in glomerular diseases. SM Hejazian, Y Rahbar Saadat, SM Hosseiniyan Khatibi, F Farnood, ... Archives of Physiology and Biochemistry, 1-13 2023
25. Key therapeutic targets implicated at the early stage of hepatocellular carcinoma identified through machine-learning approaches. SM Hosseiniyan Khatibi, F Najjarian, H Homaei Rad, M Ardalani, ... Scientific reports 13 (1), 3840 2023
26. Glucocorticoid Receptor Polymorphisms and Avascular Osteonecrosis After Kidney Transplantation J Etemadi, MRJ Nakhjavani, S Sepehri, R Motavalli, SS Hejazian, ...Iranian Journal of Kidney Diseases 17 (2), 86 2023
27. The role of circadian gene timeless in gastrointestinal cancers K Hosseini, SM Beirami, H Forouhandeh, SZ Vahed, S Eyvazi, .Gene Reports 30, 101722 1 2023
28. The Impact of Single Nucleotide Polymorphisms on the Pharmacokinetics of Tacrolimus in Kidney Allograft Recipients of Northern-West, Iran. EJ Hagh, A Mousavi, SM Hejazian, M Hagh, S Esfahanian, E Ahmadian, ...Advanced Pharmaceutical Bulletin 13 (2), 393 1 2023
29. Protective effect of Eprosartan against ischemic acute renal injury: Acting on NF- κ B, caspase 3, and Sirtuin 1. B Lotfi, Y Bagheri, A Abdollahpour, E Ahmadian, S Matin, A Firouzfar, ...International Immunopharmacology 115, 109690 7 2023
30. The effect of Fingolimod on patients with moderate to severe COVID-19. S Teymouri, S Pourbayram Kaleybar, SS Hejazian, SM Hejazian, ...Pharmacology Research & Perspectives 11 (1), e01039 13 2023

31. The Histopathological Evaluation of the Effects of Capparis spinosa Seed Hydroalcoholic Extract on Cisplatin-induced-Nephrotoxicity in Rats. F Mahmoodpoor, SH Hosseini, E Ahmadian, M Ardalan, K Kamali, ...Journal of Advances in Medical and Biomedical Research 31 (144), 73-79 2023
32. A diagnostic miRNA panel to detect recurrence of ovarian cancer through artificial intelligence approaches. R Aghayousefi, SM Hosseiniyan Khatibi, S Zununi Vahed, M Bastami, ...Journal of Cancer Research and Clinical Oncology 149 (1), 325-341
33. Key therapeutic targets implicated at the early stage of hepatocellular carcinoma identified through machine-learning approaches SM Hosseiniyan Khatibi, F Najjarian, H Homaei Rad, M Ardalan, **S Zununi Vahed**. Scientific Reports, 2023, 13 (1), 3840
34. Panels of mRNAs and miRNAs for decoding molecular mechanisms of Renal Cell Carcinoma (RCC) subtypes utilizing Artificial Intelligence approaches. SM Hosseiniyan Khatibi, M Ardalan, M Teshnehlab, **SZ Vahed**. 2022, Scientific reports 12 (1), 1-18
35. A diagnostic miRNA panel to detect recurrence of ovarian cancer through artificial intelligence approaches. R Aghayousefi, SM Hosseiniyan Khatibi, **S Zununi Vahed**, M Bastami, 2022, Journal of Cancer Research and Clinical Oncology, 1-17
36. Decoding the Possible Molecular Mechanisms in Pediatric Wilms Tumor and Rhabdoid Tumor of the Kidney through Machine Learning Approaches SM Hosseiniyan Khatibi, Y Rahbar Saadat, SM Hejazian, S Sharifi, **S Zununi Vahed**..Fetal and Pediatric Pathology, 2023, 1-20
37. Interventions for decreasing the risk of recurrent IgA nephropathy: A systematic review and meta-analysis A Sani, K Movalled, A Kamanaj, S Hassannezhad, H Hosseinfard, **S Zununi Vahed**.Transplant Immunology, 2023, 101878
38. Ischemic tubular injury: Oxygen-sensitive signals and metabolic reprogramming Y Rahbar Saadat, SM Hosseiniyan Khatibi, A Sani, **S Zununi Vahed**, Inflammopharmacology, 2023, 1-13
39. Application of collagen and mesenchymal stem cells in regenerative dentistry. M Samiei, M Alipour, K Khezri, YR Saadat, H Forouhandeh, 2022, Current Stem Cell Research & Therapy 17 (7), 606-620
40. Evaluating the effect of Edaravone on clinical outcome of patients with severe COVID-19 admitted to ICU: a randomized clinical trial. M Moslemi, SM Hejazian, M Shaddelan, F Javanali, A Mirghaffari, 2022, Inflammopharmacology 30 (4), 1277-1282
41. Effect of edaravone on patients with moderate COVID-19: a single-center non-randomized clinical trial. A Ghannadi, SM Hejazian, MR Moslemi, F Farnood, B Niknafs, **SZ Vahed**, 2022, Medical Journal of Tabriz University of Medical Sciences 44 (3), 189-199

42. Salivary biomarkers in cancer. A Eftekhari, SM Dizaj, S Sharifi, S Salatin, R Khalilov, M Samiei, **SZ Vahed**, 2022, *Advances in Clinical Chemistry* 110, 171-192
43. Eplerenone reduces renal ischaemia/reperfusion injury by modulating Klotho, NF- κ B and SIRT1/SIRT3/PGC-1 α signalling pathways. A Barati, Y Rahbar Saadat, SM Meybodi, S Nouraei, K Moradi, **S Zununi Vahed**, 2022. *Journal of Pharmacy and Pharmacology*
44. Microbiota and glomerulonephritis; an immunological point of view. M Ardalan, E Ahmadian, SMH Khatibi, YR Saadat, M Bastami, Y Bagheri, **S Zununi Vahed**, 2022, *The American Journal of the Medical Sciences*, 364(6):695-705.
45. Novel treatment options in rituximab-resistant membranous nephropathy patients. E Ahmadian, SMH Khatibi, **SZ Vahed**, M Ardalan. 2022, *International Immunopharmacology* 107, 108635
46. IL-17A rs2275913 gene polymorphism in patients with diabetic nephropathy
47. A Nazarian, SM Hejazian, E Ahmadian, SZ Vahed, M Haghi, M Mobasseri, **SZ Vahed**, 2022, *Immunopathologia Persa*
48. IL-17 gene polymorphism (rs763780) in kidney recipients with post-transplant diabetes. **SZ Vahed**, J Etemadi, T Majidi, SM Hejazian, P Ronaghi, M Ardalan, 2022, *Journal of Renal Injury Prevention* 11 (3), e31976-e31976
49. Analysis of glucocorticoid receptor gene polymorphisms in kidney recipients with post-transplant diabetes, J Etemadi, S Abediazar, T Majidi, **SZ Vahed**, R Motavalli, B Niknafs, 2022, *Journal of Renal Injury Prevention*
50. Targeting chronic COVID-19 lung injury; Tofacitinib can be used against tissue-resident memory T cells. **SZ Vahed**, SMH Khatibi, E Ahmadian, M Ardalan. *Biomedicine & Pharmacotherapy* 147, 112614, 2022
51. Evaluation of telomeric KIR genes and their association with CMV infection in kidney transplant recipients. N Farzamikia, SM Hejazian, M Haghi, SS Hejazian, **S Zununi Vahed**, *Immunogenetics* 74 (2), 207-212, 2022
52. Prevalence of anti-HLA antibodies in highly sensitized kidney transplant candidates. F Farnood, A Mardomi, **SZ Vahed**, M Ardalan, *Journal of Renal Injury Prevention*, 1(2) 2022
53. Novel treatment options in rituximab-resistant membranous nephropathy patients, E Ahmadian, SMH Khatibi, **SZ Vahed**, M Ardalan, *International Immunopharmacology* 107, 108635, 2022
54. Effect of curcumin on head and neck squamous cell carcinoma cell line HN5. ED Abdolahinia, S Ahmadian, S Bohlouli, FJ Gharehbagh, NG Jahandizi, *Current Molecular Pharmacology*, 2022
55. The early start of hemoperfusion decreases the mortality rate among severe COVID-19 patients: A preliminary study H Mikaeili, A Taghizadieh, M Nazemiyeh, P Rezaeifar, **S Zununi Vahed**, *Hemodialysis International* 26 (2), 176-182 1 2022
56. Curcumin nanoformulations: Beneficial nanomedicine against cancer. S Maleki Dizaj, M Alipour, E Dalir Abdolahinia, E Ahmadian, A Eftekhari, ...*Phytotherapy Research* 36 (3), 1156-1181 2 2022
57. Dysregulated expression of miR-146a and its associated immune effectors in peripheral blood mononuclear cells of esophageal carcinoma patients. Z Nariman-

- Saleh-Fam, Y Mansoori, Z Saadatian, J Tavakkoly-Bazzaz, **S Zununi Vahed**. Immunological Investigations 51 (2), 290-300 1 2022
58. The Role of Cytokines in Nephrotic Syndrome. E Ahmadian, Y Rahbar Saadat, E Dalir Abdolahinia, M Bastami, **S Zununi Vahed**. Mediators of Inflammation 2022
59. New insights on the monitoring of solid-organ allografts based on immune cell signatures. A Mardomi, SB Naderi, **SZ Vahed**, M Ardalan. Transplant immunology 70, 101509 2022
60. Venous impedance index and its relation with renal outcomes in patients with heart failure and renal dysfunction. **SZ Vahed**, S Naderi, SM Hejazian, A Ranjbar, E Ahmadian, Medical Journal of Tabriz University of Medical Sciences, 2022
61. Epi-miRNAs: Regulators of the Histone Modification Machinery in Human Cancer. D Mortazavi, B Sohrabi, M Mosallaei, Z Nariman-Saleh-Fam, M Bastami, **S Zununi Vahed**. Journal of Oncology 2022 1 2022
62. IL-17A rs2275913 gene polymorphism in patients with diabetic nephropathy. A Nazarian, SM Hejazian, E Ahmadian, **SZ Vahed**, M Haghi, M Mobasser, Renal Injury Prevention, 2022
63. The STAT4 SNP (rs7574865) and systemic lupus erythematosus. G Bayat, SM Hejazian, E Ahmadian, SS Hejazian, A Khabbazi, **SZ Vahed**, 2022
64. Ki-67 proliferative index in kidney biopsies of lupus nephritis patients: a preliminary study. K Mowla, E Emami, MB Abhari, **SZ Vahed**, M Mubarak, M Bahadoram, ...2022
65. Migrasomes and exosomes; different types of messaging vesicles in podocytes. M Ardalan, SM Hosseiniyan Khatibi, Y Rahbar Saadat, M Bastami, **S Zununi Vahed**. Cell Biology International 46 (1), 52-62,3,2022
66. Stem cell-derived biofactors fight against coronavirus infection. M Ardalan, L Chodari, **SZ Vahed**, SMH Khatibi, A Eftekhari, S Davaran, World Journal of Stem Cells 13 (12), 1813, 2021
67. Application of collagen and mesenchymal stem cells in regenerative dentistry. M Samiei, M Alipour, K Khezri, YR Saadat, H Forouhandeh, **S Zununi Vahed**. Current Stem Cell Research & Therapy 2 2021
68. The diagnostic value of immunohistochemical staining of the interstitial vascular C4d complement in membranous nephropathy. T Poulak, S Sharifi, **SZ Vahed**, E Ahmadian, M Cucchiari, Current Issues in Pharmacy and Medical Sciences 34 (4), 181-186, 2021
69. Phenotypic and phylogenetic characterization of Lactobacillus species isolated from traditional Lighvan cheese. H Forouhandeh, **SZ Vahed**, H Ahangari, V Tarhriz, MS Hejazi, Food Production, Processing and Nutrition 3 (1), 1-9, 2021
70. Thrombotic microangiopathy during pregnancy. **SZ Vahed**, YR Saadat, M Ardalan
71. Microvascular Research 138, 1042261, 2021
72. Immunosuppressant Management in Renal Transplant Patients with COVID-19, E Ahmadian, **S Zununi Vahed**, S Mammadova, S Abediazar, BioMed Research International 2021 1 2021
73. An association between incontinence and antipsychotic drugs: A systematic review. A Arasteh, S Mostafavi, **SZ Vahed**, SSM Montazeri. Biomedicine & Pharmacotherapy 142, 112027 1, 2021

74. The clinical significance of the glucocorticoid receptors: Genetics and epigenetics. R Motavalli, T Majidi, T Pourlak, S Abediazar, MM Shoja, **SZ Vahed**, The Journal of steroid biochemistry and molecular biology 213, 105952 5, 2021
75. Critical roles of microRNA-196 in normal physiology and non-malignant diseases: Diagnostic and therapeutic implications. M Bastami, A Masotti, Z Saadatian, A Daraei, M Farjam, A Ghanbariasad, **S Zununi Vahed**. Experimental and Molecular Pathology 122, 104664 1, 2021
76. Antimicrobial and antibiofilm activities of meropenem loaded-mesoporous silica nanoparticles against carbapenem-resistant *Pseudomonas aeruginosa*. MY Memar, M Yekani, H Ghanbari, E Nabizadeh, **SZ Vahed**, SM Dizaj, Journal of Biomaterials Applications 36 (4), 605-612 5, 2021
77. The Association of Sleep Quality and Vitamin D Levels in Hemodialysis Patients, SM Hejazian, E Ahmadian, **S Zununi Vahed**, L Faraji Gogani, F Farnood, BioMed Research International 2021, 2021.
78. Perturbation of miR-146b and relevant inflammatory elements in esophageal carcinoma patients supports an immune downregulatory mechanism. M Bastami, H Mahmoodzadeh, Z Saadatian, A Daraei, **SZ Vahed**, Pathology-Research and Practice 225, 153560, 2021
79. Podocyte-derived microparticles in IgA nephropathy. N Farzamikia, B Baradaran, S Mostafavi, E Ahmadian, SMH Khatibi, **S Zununi Vahed**. Biomedicine & Pharmacotherapy 141, 111891 2,2021
80. The Impact of Intravenous Iron Supplementation on Hematinic Parameters and Erythropoietin Requirements in Hemodialysis Patients, **S Zununi Vahed**, E Ahmadian, SM Hejazian, S Esmaeili, F Farnood. Advances in Therapy 38 (8), 4413-4424, 2021
81. Targeting Mitochondrial Biogenesis with Polyphenol Compounds. L Chodari, M Dilsiz Aytimir, P Vahedi, M Alipour, **SZ Vahed**, SMH Khatibi, Oxidative Medicine and Cellular Longevity 2021 4, 2021
82. Protective effects of gamma oryzanol on distant organs after kidney ischemia-reperfusion in rats: a focus on liver protection. Y Bagheri, S Aghajani, M Hosseinzadeh, F Hoshmandan, A Abdollahpour, **S Zununi Vahed** .Human & Experimental Toxicology 40 (6), 1022-1030 4, 2021
83. Covid-19 and kidney injury: pathophysiology and molecular mechanism, E Ahmadian, SM Hosseiniyan Khatibi, S Razi Soofiyani, S Abediazar, **S Zununi Vahed**.Reviews in medical virology 31 (3), e2176 109 2021
84. Molecular pathophysiology of acute kidney injury: The role of sirtuins and their interactions with other macromolecular players. Y Rahbar Saadat, SM Hosseiniyan Khatibi, M Ardalan, A Barzegari, **S Zununi Vahed**. Journal of Cellular Physiology 236 (5), 3257-3274 6 2021
85. Vitamin D Receptor and Vitamin D Binding Protein Gene Polymorphisms Are Associated with Renal Allograft Outcome. **S Zununi Vahed**, E Ahmadian, P Foroughi, S Mostafavi, H Madry, Nutrients 13 (4), 1101, 2021
86. Tightly controlled response to oxidative stress; an important factor in the tolerance of *Bacteroides fragilis*. M Yekani, HB Baghi, SZ Vahed, H Ghanbari, R Hosseinpour, R Azargun, Research in microbiology 172 (2), 1037983, 2021.

87. A comprehensive review of detection methods for SARS-CoV-2. A Eftekhari, M Alipour, L Chodari, S Maleki Dizaj, M Ardalani, M Samiei, *Microorganisms* 9 (2), 232–37, 2021
88. Host serine proteases: A potential targeted therapy for COVID-19 and influenza. YR Saadat, SMH Khatibi, SZ Vahed, M Ardalani. *Frontiers in Molecular Biosciences* 8 9, 2021
89. Preparation and physicochemical assessment of hydroxyapatite-gelatin nanoscaffold containing vanilla. SM Dizaj, M Mokhtarpour, **SZ Vahed**, S Sharifi. *Majallah-i pizishki-i Danishgah-i Ulum-i Pizishki va Khadamat-i Bihdashti-i ...* 2021
90. Application of advanced nanomaterials for kidney failure treatment and regeneration. A Eftekhari, S Maleki Dizaj, E Ahmadian, A Przekora, **S Zununi Vahed**. *Materials* 14 (11), 2939–5, 2021
91. ADAMTS13 gene; a novel splicing site mutation in a case with thrombotic thrombocytopenic purpura. **SZ Vahed**, A Cremaschi, B Zaker, SSR Hashemi, M Ardalani. *Journal of Nephro pharmacology* 10 (2) 1–2021
92. Nrf-2 as a therapeutic target in acute kidney injury. SM Hejazian, SMH Khatibi, A Barzegari, G Pavon-Djavid, SR Soofiyan, **S Zununi Vahed**. *Life Sciences* 264, 118581–9, 2021
93. Sphingosine 1 phosphate agonists (S1P): A potential agent to prevent acute lung injury in COVID-19. **SZ Vahed**, S Ghiyasvand, SMH Khatibi, B Patel, MM Shoja, R Tolouian,
94. Tolouian R, **Vahed SZ**, Ghiyasvand S, Tolouian A, Ardalani MJ. *JoRIP* (2020) COVID-19 interactions with angiotensin-converting enzyme 2 (ACE2) and the kinin system; looking at a potential treatment. *J Renal Inj Prev.* 2020; 9(2): e19.
95. Ahmadian E, Rahbar Saadat Y, Hosseiniyan Khatibi SM, Nariman-Saleh-Fam Z, Bastami M, Zununi Vahed F, Ardalani M, **Zununi Vahed S** (2020) Pre-Eclampsia: Microbiota possibly playing a role. *Pharmacological research* 155: 104692. DOI 10.1016/j.phrs.2020.104692
96. Barzegari A, Kheyrolahzadeh K, Hosseiniyan Khatibi SM, Sharifi S, Memar MY, **Zununi Vahed S** (2020) The Battle of Probiotics and Their Derivatives Against Biofilms. *Infection and drug resistance* 13: 659-672. DOI 10.2147/idr.S232982
97. Bastami M, Choupani J, Saadatian Z, **Zununi Vahed S**, Ouladsahebmadarek E, Mansoori Y, Daraei A, Samadi Kafil H, Yousefi B, Mahdipour M, et al. (2019) Evidences from a Systematic Review and Meta-Analysis Unveil the Role of MiRNA Polymorphisms in the Predisposition to Female Neoplasms. *International journal of molecular sciences* 20. DOI 10.3390/ijms20205088
98. Eftekhari A, Maleki Dizaj S, Sharifi S, Salatin S, Rahbar Saadat Y, **Zununi Vahed S**, Samiei M, Ardalani M, Rameshrad M, Ahmadian E, et al. (2020) The Use of Nanomaterials in Tissue Engineering for Cartilage Regeneration; Current Approaches and Future Perspectives. *International journal of molecular sciences* 21. DOI 10.3390/ijms21020536
99. Hejazian SM, **Zununi Vahed S**, Moghaddas Sani H, Nariman-Saleh-Fam Z, Bastami M, Hosseiniyan Khatibi SM, Ardalani M, Samadi N (2020) Steroid-resistant nephrotic syndrome: pharmacogenetics and epigenetic points and views. *Expert review of clinical pharmacology* 13: 147-156. DOI 10.1080/17512433.2020.1702877

100. Hosseiniyan Khatibi SM, Ardalan M, Abediazar S, **Zununi Vahed S** (2020) The impact of steroids on the injured podocytes in nephrotic syndrome. *The Journal of steroid biochemistry and molecular biology* 196: 105490. DOI 10.1016/j.jsbmb.2019.105490
101. Hosseiniyan Khatibi SM, Kheyrolahzadeh K, Barzegari A, Rahbar Saadat Y, **Zununi Vahed S** (2020) Medicinal signaling cells: A potential antimicrobial drug store. *Journal of cellular physiology*. DOI 10.1002/jcp.29728
102. Khan SA, **Zununi Vahed S**, Forouhandeh H, Tarhriz V, Chaparzadeh N, Hejazi MA, Jeon CO, Hejazi MS (2020) *Halomonas urmiana* sp. nov., a moderately halophilic bacterium isolated from Urmia Lake in Iran. *International journal of systematic and evolutionary microbiology*. DOI 10.1099/ijsem.0.004005
103. Rahbar Saadat Y, Niknafs B, Hosseiniyan Khatibi SM, Ardalan M, Majdi H, Bahmanpoor Z, Abediazar S, **Zununi Vahed S** (2020) Gut microbiota; an overlooked effect of phosphate binders. *European journal of pharmacology* 868: 172892. DOI 10.1016/j.ejphar.2019.172892
104. Rahbar Saadat Y, Pourseif MM, **Zununi Vahed S**, Barzegari A, Omid Y, Barar J (2019) 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*. DOI 10.1007/s12602-019-09596-9
105. Sharifi S, Fathi N, Memar MY, Hosseiniyan Khatibi SM, Khalilov R, Negahdari R, **Zununi Vahed S**, Maleki Dizaj S (2020) Anti-microbial activity of curcumin nanoformulations: New trends and future perspectives. *Phytotherapy research : PTR*. DOI 10.1002/ptr.6658
106. Abediazar S, Jafari-Nakhjavani M, Ghorbanihaghjo A, Shekarchi M, **Zununi Vahed S** (2019) Serum Levels of CXCL10 and Vitamin D in Patients with Lupus Nephritis. *Iranian journal of kidney diseases* 13: 389-397.
107. **Zununi Vahed S**, Ardalan M, Ronco C. **2019**. Rein cardiaque: Historical Notes on Cardiorenal Syndrome. *Cardiorenal Med.* 9:1-4. doi: 10.1159/000503222.
108. **Zununi Vahed S**, Moghaddas Sani H, Haghi M, Mohajel Shoja M, Ardalan M. **2019**. *TRPC6* and *NPHS2* gene variants in adult patients with steroid-resistant nephrotic syndrome in North-West of Iran. *Mol Biol Rep.* 16. doi: 10.1007/s11033-019-05074-1.
109. Sharifi S, **Zununi Vahed S**, Ahmadian E, Maleki Dizaj S, et al. **2019**. Stem Cell Therapy: Curcumin Does the Trick. *Phytother Res.* 26. doi: 10.1002/ptr.6482.
110. Hekmatshoar Y, Rahbar Saadat Y, Hosseiniyan Khatibi SM, Ozkan, **Zununi Vahed S**. The impact of tumor and gut microbiotas on cancer therapy: Beneficial or detrimental? **2019**. *Life Sci.* 15;233:116680. doi: 10.1016/j.lfs.2019.
111. Nakhjavani M, Etemadi J, Poulak T, Mirhosaini Z, **Zununi Vahed S**, Abediazar S. **2019**. Plasma levels of miR-21, miR-150, miR-423 in patients with lupus nephritis. *Iran J Kidney Dis.* 13(3):198-206.

112. Milad Bastami, Jalal Choupani, Zahra Saadatian, **Sepideh Zununi Vahed**, et al. **2019**.
 - a. Evidences from a Systematic Review and Meta-analysis Unveil the Role of miRNA Polymorphisms in the Predisposition to Female Neoplasms.
113. Hosseiniyan Khatibi SM, Zununi Vahed F, Sharifi S, Ardalan M, Mohajel Shoja M, **Zununi Vahed S. (2019)**. Osmolytes resist against harsh osmolarity: Something old something new. *Biochimie*. Jan 7;158:156-164.
114. Bastami M, Choupani J, Saadatian Z, **Zununi Vahed S**, Mansoori Y5, Daraei A6, Samadi Kafil H7, Masotti A8, Nariman-Saleh-Fam Z. **(2019)**. miRNA Polymorphisms and Risk of Cardio-Cerebrovascular Diseases: A Systematic Review and Meta-Analysis. *Int J Mol Sci.*;20(2). pii: E293. doi: 10.3390/ijms20020293.
115. Moghaddas Sani H, **Zununi Vahed S**, Ardalan M **(2019)**. Preeclampsia: A close look at renal dysfunction. *Biomedicine and Pharmacotherapy*. 109:408-416.
116. Rahbar Saadat Y, Hejazian M, Bastami M, Hosseinian Khatibi SM, Ardalan M, **Zununi Vahed S (2018)**. The role of microbiota in the pathogenesis of lupus: Dose it impact lupus nephritis? *Pharmacological Research*. 22;139:191-198.
117. Ziba Nariman-Saleh-Fam, Milad Bastami, Mohammadreza Ardalan, Simin Sharifi, Seyed Mahdi Hosseinian Khatib, **Sepideh Zununi Vahed (2018)**. Cell-free microRNA-148a is associated with renal allograft dysfunction: Implication for biomarker discovery. *Journal of Cellular Biochemistry*. doi: 10.1002/jcb.27860.
118. **Zununi Vahed S**, Nakhjavani, Etemadi J, Jamshidi H, Jadidian N, Poursak T, Abediazar S **(2018)**. Altered levels of immune-regulatory microRNAs in plasma samples of patients with lupus nephritis. *Bioimpacts*. 8(3):177-183.
119. Ardalan M, **Zununi Vahed S (2018)**. Allograft outcome: the application of machine perfused fluid miRNAs. *Non-coding RNA Investig* 2:65.
120. S Sharifi, M Samiei, **SZ Vahed**, S Sunar, SM Dizaj **(2018)**. A brief view on principle, mechanism and advantages of NanoPCR. *Journal of Advanced Chemical and Pharmaceutical Materials* 1 (3), 67-72
121. Mohsen Hemmati-Dinarvand & Maryam Niknam, **Sepideh Zununi Vahed**, & Nasser Samadi. **(2018)**. Serum uric acid and albumin are affected by different variables in Parkinson's disease. *Neurological Science*. doi: 10.1007/s10072-018-3548-2.

122. HM Sani, S Sharifi, SM Hosseinian Khatibi, M Ardalan, **SZ Vahed (2018)**. Integral detection of bacterial macromolecules: applications of nucleic acid-based approaches. *Biointerface research in applied chemistry* 8 (4), 3493-3504.
123. **S Zununi Vahed**, N Fathi, M Samiei, S Maleki Dizaj, S Sharifi. (2018). Targeted cancer drug delivery with aptamer-functionalized polymeric nanoparticles. *Journal of Drug Targeting*, 26:1-8. doi: 10.1080/1061186X.2018.1491978.
124. S Shahi, **SZ Vahed**, N Fathi, S Sharifi. (2018). Polymerase chain reaction (PCR)-based methods: Promising molecular tools in dentistry. *International Journal of Biological Macromolecules*. 117:983-992.
125. **SZ Vahed**, HM Sani, YR Saadat, A Barzegari, Y Omidi. (2018). Type 1 diabetes: Through the lens of human genome and metagenome interplay, *Biomedicine & Pharmacotherapy* 104, 332-342.
126. M Hemmati-Dinarvand, A Taheraghdam, A Mota, **VS Zununi**, N Samadi. (2018). In response to a letter to Editor by Vivek Kumar Garg., et al. on our paper: "Dysregulation of serum NADPH oxidase1 and ferritin levels provides insights into diagnosis of Parkinson's disease". *Clin Biochem*. 56:118-119.
127. HM Sani, M Hejazian, SMH Khatibi, M Ardalan, **SZ Vahed**. (2018). Long non-coding RNAs: An essential emerging field in kidney pathogenesis. *Biomedicine & Pharmacotherapy* 99, 755-765.
128. **SZ Vahed**, H Forouhandeh, V Tarhriz, N Chaparzadeh, MA Hejazi. (2018). *Halomonas tabrizica* sp. nov., a novel moderately halophilic bacterium isolated from Urmia Lake in Iran. *Antonie van Leeuwenhoek*, 1-10.
129. F Mahmoodpoor, M Ardalan, M Somi, E Faramarzi, **S Zununi Vahed**. (2018). Chronic kidney disease among the Iranian-Azari population; a report from pilot phase of AZAR cohort study. *Journal of Renal Injury Prevention* 7 (3), 124-128.
130. Jalal Etemadi, Taraneh Majidi, Roza Motavalli, Mortaza Bonyadi, **Sepideh Zununi Vahed**, Behzad Zaker, Mohammadreza Ardalan (2018). Mediterranean fever gene mutations in patients with idiopathic mesangial proliferative glomerulonephritis. *J Nephropathol*. 7(2):45-50.
131. **S Zununi-Vahed**, MR Ardalan, F Mahmoodpoor, K Ardalan, R Tolouian. (2017). Fenugreek (*Trigonella foenum-graecum*) induced interstitial nephritis. *Journal of Renal Injury Prevention*. 6: 286-288.
132. Ebrahimzadeh Attari V, Malek Mahdavi A, Javadivala Z, Mahluji S, **Zununi Vahed S**, Ostadrahimi A. (2017). A systematic review of the anti-obesity and weight lowering effect of ginger (*Zingiber officinale* Roscoe) and its mechanisms of action.

133. Hemmati-Dinarvand M, Taher-Aghdam AA, Mota A, **Zununi Vahed S**, Samadi N. (2017). Dysregulation of serum NADPH oxidase1 and ferritin levels provides insights into diagnosis of. *Clin Biochem*. 50(18):1087-1092.
134. **Zununi Vahed S**, Barzegari A, Zuluaga M, Letourneur D, Pavon-Djavid G. (2017). Myocardial infarction and gut microbiota: An incidental connection. *Pharmacol Res*. 2018 Mar;129:308-317.
135. **Zununi Vahed, S.**, Barzegari, A., Rahbar Saadat, Y., Goreyshi, A., Omid, Y. (2017). *Leuconostoc mesenteroides*-derived anticancer pharmaceuticals hinder inflammation and cell survival in colon cancer cells by modulating NF- κ B/AKT/PTEN/MAPK pathways, *Biomed Pharmacother*. 94: 1094–1100.
136. Mahmoodpoor, F., Rahbar Saadat, Y., Barzegari, A., Ardalan, M., **Zununi Vahed, S.** (2017). The impact of gut microbiota on kidney function and pathogenesis. *Biomed Pharmacother*. 24;93:412-419.
137. **Zununi Vahed, S.**, Poursadegh Zonouzi, A, Mahmoodpoor, F., Samadi, N., Ardalan, MR., Omid, Y. (2017). Circulating miR-150, miR-192, miR-200b, and miR-423-3p as non-invasive biomarkers of chronic allograft dysfunction. *Arch Med Res*. 48(1):96-104.
138. **Zununi Vahed, S.**, Poursadegh Zonouzi, A, Ghanbarian, H., Ghojzadeh, M., Samadi, N., Ardalan, M., Omid, Y. (2017). Differential expression of circulating miR-21, miR-142-3p and miR-155 in renal transplant recipients with impaired graft function. *Int Uro Nephro*, doi: 10.1007/s11255-017-1602-2.
139. Ardalan, M., **Zununi Vahed, S.** (2017). Gut microbiota and renal transplant outcome. *Biomed Pharmacother*, 28;90:229-236.
140. **Zununi Vahed, S.**, Salehi, R., Davaran, S., Sharifi, S. (2017). Liposome-based drug co-delivery systems in cancer cells. *Mater Sci Eng C Mater Biol Appl*, 1;71:1327-1341.
141. **Zununi Vahed, S.**, Omid, Y., Ardalan, M. and Samadi, N. (2017). Dysregulation of urinary miR-21 and miR-200b associated with interstitial fibrosis and tubular atrophy (IFTA) in renal transplant recipients. *Clin Biochem*, 50(1-2):32-39.
142. Rodriguez-Ruiza V., Barzegari, A., Zuluagaa, M., **Zunooni-Vahed, S.**, Rahbar-Saadat, Y., Letourneur, D., Gueguena, V., Pavon- Djavid G. (2016). Potential of aqueous extract of saffron (*Crocus sativus* L.) in blocking the oxidative stress by modulation of signal transduction in human vascular endothelial cells. *J Functional Foods*, 26:123-134.
143. **Zununi Vahed S**, Barzegari A, Rahbar Saadat Y, Mohammadi S, Samadi N. (2016). A microRNA isolation method from clinical samples. *BioImpacts*, 6: 25-31.
144. Rahbar Saadat Y, Barzegari A, **Zununi Vahed S**, Saeedi N, Eskandani M, Omid Y, and Barar J. (2016). Cyto/Genotoxic Effects of Pistacia atlantica Resin, a Traditional Gum. *DNA Cell Biol.*, 35: 261-266.

145. **Zununi Vahed, S.**, Samadi, N., Omidi, Y and Ardalan, M. (2016). Genetics and Epigenetics of Chronic Allograft Dysfunction in Kidney Transplants. *Iran J Kidney Dis* **10**:1-9.
146. **Zununi Vahed, S.**, Ardalan, M., Samadi, N., and Omidi, Y. (2015) Pharmacogenetics and drug-induced nephrotoxicity in renal transplant recipients. *BioImpacts* **5**: 45-54
147. Saadat, Y.R., Saeidi, N., **Zununi Vahed, S.**, Barzegari, A., and Barar, J. (2015) An update to DNA ladder assay for apoptosis detection. *BioImpact* **5**: 25-28.
148. Nader Hajizadeh, Youssof Sefidi Heris, **Sepideh Zununi Vahed**, Javad Vallipour, Mohammad Amin Hejazi, Sayyed Mahdi Golabi, Karim Asadpour-Zeynali, Mohammad Saeid Hejazi. (2015). Biodegradation of para amino acetanilide by Halomonas sp. TBZ3. *Jundishapur J Microbiol.* **16**;8(9):e18622.
149. Youssof Sefidi Heris, Nader Hajizadeh, **Sepideh Zununi Vahed**, Javad Vallipour, Mohammad Amin Hejazi, Sayyed Mahdi Golabi, Karim Asadpour-Zeynali, Mohammad Saeid Hejazi. (2015). Fe (III) reduction by Halomonas sp. TBZ9 and Maribobacter sp. TBZ23, isolated from Urmia Lake in Iran. *Advances in Environmental Biology*.
150. **Zununi Vahed, S.**, Samadi, N., and Ardalan, M. (2014) Diagnosis of interstitial fibrosis and tubular atrophy in kidney allograft: implementation of microRNAs. *Iran J Kidney Dis* **8**: 4-12.
151. Abhari, A., Zarghami, N., Shahnazi, V., Barzegar, A., Farzadi, L., Karami, H., **Zununi Vahed, S.** (2014) Significance of microRNA targeted estrogen receptor in male fertility. *Iran J Basic Med Sci* **17**: 81-6.
152. Rezanejad, H., Haddad, F., Soheila Soheili, Z., M Matin, M., Samiei, S., and **Zununi Vahed, S.** (2014) PAX6 (+ 5a) Expression in Adipose Tissue-Derived Stem Cells Induces Retinal Ganglion Cells. *Journal of Cell and Molecular Research* **6**: 3-12.
153. Heris, Y.S., Hajizadeh, N., **Zununi Vahed, S.**, Vallipour, J., and Amin, M. (2014) Bacterial Degradation Of Para-Amino Acetanilide By Marinobacter Sp. Tbz23, Isolated From Urmia Lake In Iran. *Trends Life Science* **3**.
154. **Zununi, S.**, and Ardalan, M. (2013) MicroRNA and Renal Allograft Monitoring. *Nephrourol Mon* **5**: 783-6.
155. **Zununi Vahed, S.**, Nikasa, P., and Ardalan, M. (2013) Klotho and renal fibrosis. *Nephrourol Mon* **5**: 946-8.
156. Mahna, N., **Zununi Vahed, S.**, and Khani, S. (2013) Plant in vitro culture goes nano: nanosilver-mediated decontamination of ex vitro explants. *J Nanomed Nanotechol* **4**: 2.
157. Tarhriz, V., Nematzadeh, G., **Zununi Vahed, S.**, Hejazi, M.A., and Hejazi, M.S. (2012) *Alishewanella tabrizica* sp. nov., isolated from Qurugol Lake. *Int J Syst Evol Microbiol* **62**: 1986-91.

158. **Zununi Vahed, S.**, Forouhandeh, H., Hassanzadeh, S., Klenk, H.P., Hejazi, M.A., and Hejazi, M.S. (2011) Isolation and characterization of halophilic bacteria from Urmia Lake in Iran. *Mikrobiologiia* **80**: 826-33.
159. Samadi Shams, S., **Zununi Vahed, S.**, Soltanzad, F., Kafil, V., Barzegari, A., Atashpaz, S., *et al.* (2011) Highly effective DNA extraction method from fresh, frozen, dried and clotted blood samples. *Bioimpacts* **1**: 183-7.
160. Barzegari, A., **Zununi Vahed, S.**, Atashpaz, S., Khani, S., and Omid, Y. (2010) Rapid and simple methodology for isolation of high quality genomic DNA from coniferous tissues (*Taxus baccata*). *Mol Biol Rep* **37**: 833-7.

References

Dr Yadollah Omid	yomidi@yahoo.com	Professor of Pharmaceutics, Tabriz University of Medical Sciences, Iran
Dr MohammadReza Ardalan	ardalan34@yahoo.com	MD, Professor of Medicine and Nephrology, Tabriz University of Medical Sciences, Iran
Dr Mohammad Saeid Hejazi	saeidhejazi@tbzmed.ac.ir	Professor of Pharmaceutical Biotechnology, Tabriz University of Medical Sciences, Iran
Dr Nasser Samadi	drnsamadi@yahoo.com	Assistant Professor of Biochemistry, Tabriz University of Medical Sciences, Iran