

CURRICULUM VITAE

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PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. "Alamandine enhanced spatial memory in rats by reducing neuroinflammation and altering BDNF levels in the hippocampus and prefrontal cortex.", *Scientific Reports*, 2025.
- A2. "Expression Patterns of miRNA in the Experimental Autoimmune Encephalomyelitis (EAE)/MS Model Treated With *Oenothera biennis* Oil", *Acta Neurologica Scandinavica*, 2025.
- A3. "Electron microscopic analysis of pomegranate and black chokeberry effects on acute pancreatitis in rats", *Journal of Molecular Histology*, 2025.
- A4. "Assessment of serum survivin in women with placenta previa and accreta spectrum: a cross-sectional study", *Scientific Reports*, 2025.
- A5. "Response of miRNA to treatment with *Hypericum perforatum* L. oil in multiple sclerosis", *Acta Neurobiologiae Experimentalis*, 2025.
- A6. "Therapeutic Potential of Stromal Vascular Fraction in Enhancing Wound Healing: A Preclinical Study", *Aesthetic Plastic Surgery*, 2024.
- A7. "Chemical Composition Alterations in Rat Brain Hypothalamus Induced by Irisin Administration Using Spectroscopic and Machine Learning Techniques.", *Analytical Biochemistry*, 2024.
- A8. "Synbiotic supplementation ameliorates anxiety and myocardial ischaemia-reperfusion injury in hyperglycaemic rats by modulating gut microbiota", *Experimental Physiology*, 2024.
- A9. "Human estrogen receptor alpha (ER α) targeted cyclic peptides inhibit cell growth and induce apoptosis in MCF-7 cells", *Turkish Journal of Biochemistry*, 2024.
- A10. "Oxidative stress and antioxidant status in threatened preterm labor", *Archives of gynecology and obstetrics*, 2024.
- A11. "Beneficial effects of adipose-derived stromal vascular fraction on testicular injury caused by busulfan.", *Drug and chemical toxicology*, 2024.
- A12. "The Effect of Nonstress Device Noise Level on Stress Parameters in Primigravid Women: A Randomized Controlled Trial.", *Journal of midwifery & women's health*, 2024.
- A13. "Exploring Benzo[b][1,4]Thiazine Derivatives: Multitarget Inhibition, Structure–Activity Relationship, Molecular Docking, and ADMET Analysis", *ChemistrySelect*, 2024.
- A14. "Structural analysis of wild-type and Val120Thr mutant *Candida boidinii* formate dehydrogenase by X-ray crystallography.", *Acta Crystallographica Section D - Structural Biology*, 2023.
- A15. "Application of reductive amination by heterologously expressed *Thermomicrobium roseum* L-alanine dehydrogenase to synthesize L-alanine derivatives. *Enzyme and Microbial Technology*", *Enzyme and Microbial Technology*, 2023.
- A16. "Application of reductive amination by heterologously expressed *Thermomicrobium roseum* L-alanine dehydrogenase to synthesize L-alanine derivatives.", *Enzyme and microbial technology*, 2023.
- A17. "Pre and postnatal exposure to 900 MHz electromagnetic fields induce inflammation and oxidative stress, and alter renin-angiotensin system components differently in male and female offspring", *Life Sciences*, 2023.
- A18. "Synthesis and Anticancerogenic Effect of New Generation Ruthenium-Based Nanoparticle from *Homalothecium sericeum* with Eco-Friendly Method", *Journal of Pharmaceutical Innovation*, 2023.

- A19. "The Novel 5-Fluorouracil Loaded Ruthenium-based Nanocarriers Enhanced Anticancer and Apoptotic Efficiency while Reducing Multidrug Resistance in Colorectal Cancer Cells", *Journal of fluorescence*, 2023.
- A20. "Pre and postnatal exposure to 900 MHz electromagnetic fields induce inflammation and oxidative stress, and alter renin-angiotensin system components differently in male and female offsprings.", *Life sciences*, 2023.
- A21. "Increased levels of nerve growth factor accompany oxidative load in recurrent pregnancy loss. Machine learning applied to FT-Raman spectra study", *Bioprocess and biosystems engineering*, 2023.
- A22. "Analysis of follicular fluid and serum markers of oxidative stress in women with unexplained infertility by Raman and machine learning methods", *Journal of Raman Spectroscopy*, 2023.
- A23. "Baseline serum vitamin A and vitamin C levels and their association with disease severity in COVID-19 patients.", *Acta bio-medica : Atenei Parmensis*, 2023.
- A24. "Alteration of inflammation marker levels with alfa keto analogs in diabetic rats", *Nigerian Journal of Clinical Practice*, 2022.
- A25. "Effects of combined administration of doxorubicin and chloroquine on lung pathology in mice with solid Ehrlich ascites carcinoma", *Biotechnic & Histochemistry*, 2022.
- A26. "Serum Vasostatin-1 Level is Increased in Women with Preeclampsia", *Zeitschrift für Geburtshilfe und Neonatologie*, 2022.
- A27. "Serum neutrophil gelatinase-associated lipocalin concentrations are significantly associated with the severity of COVID-19 in pregnant patients", *Saudi Medical Journal*, 2022.
- A28. "Correlation between endometriomas volume and Raman spectra. Attempting to use Raman spectroscopy in the diagnosis of endometrioma", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A29. "The effect of omentectomy on the blood levels of adipokines in obese patients with endometrial cancer", *Obesity Research & Clinical Practice*, 2022.
- A30. "Prediction of preterm delivery in threatened preterm labour with short cervical length", *Journal of Obstetrics and Gynaecology*, 2022.
- A31. "Differential of cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A32. "Impaired memory by hippocampal oxidative stress in rats exposed to 900 MHz electromagnetic fields is ameliorated by thymoquinone", *Toxicological & Environmental Chemistry*, 2022.
- A33. "Identification of polycystic ovary syndrome from blood serum using hormone levels via Raman spectroscopy and multivariate analysis", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A34. "Differential of Cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis.", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A35. "Serum vasostatin-1 level is increased in women with preeclampsia", *Zeitschrift für Geburtshilfe und Neonatologie*, 2022.
- A36. "Role of serum metalloproteinases 2 and 9 to assess the severity of COVID-19 in pregnant women: a prospective cross-sectional study", *Brazilian Journal of Pharmaceutical Sciences*, 2022.
- A37. "Characterization of Covid-19 infected pregnant women sera using laboratory indexes, vibrational spectroscopy, and machine learning classifications", *Talanta*, 2022.
- A38. "Diagnosis of endometriosis using endometrioma volume and vibrational spectroscopy with multivariate methods as a noninvasive method", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A39. "Serum catestatin level is increased in women with preeclampsia", *Journal of Obstetrics and Gynaecology*, 2022.
- A40. "Impaired memory by hippocampal oxidative stress in rats exposed to 900 MHz electromagnetic fields is ameliorated by thymoquinone", *Toxicological & Environmental Chemistry*, 2022.
- A41. "The Acorn Honey Used for a Published Study was Mistakenly Listed as *Quercus pyrenaica* and Should Be Corrected to *Quercus* species", *Integrative Cancer Therapies*, 2022.
- A42. "Identification of polycystic ovary syndrome from blood serum using hormone levels via Raman spectroscopy and multivariate analysis", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2022.
- A43. "Assessment of the effect of endocrine abnormalities on biomacromolecules and lipids by FT-IR and biochemical assays as biomarker of metabolites in early Polycystic ovary syndrome women", *Journal of Pharmaceutical and Biomedical Analysis*, 2021.
- A44. "Serum neprilysin levels are elevated in preeclampsia", *Taiwanese Journal of Obstetrics and Gynecology*, 2021.
- A45. "Assessment of structural protein expression by FTIR and biochemical assays as biomarkers of metabolites response in gastric and colon cancer", *Talanta*, 2021.
- A46. "Spectrochemical and biochemical assay comparison study of the healing effect of the Aloe vera and Hypericum perforatum loaded nanofiber dressings on diabetic wound", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2021.
- A47. "Investigation of diagnostic proteins by 2d electrophoresis in major depression model induced by forced swim test in rats", *Protein & Peptide Letters*, 2021.
- A48. "The Healing Effects of The Topical Mesenchymal Stem Cell Application on Colonic Anastomosis Subjected to Ischemia Reperfusion Injury", *KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI*, 2021.
- A49. "Structural insights into the NAD⁺-dependent formate dehydrogenase mechanism revealed from the NADH complex and the formate NAD⁺ ternary complex of the *Chaetomium thermophilum* enzyme", *Journal of Structural Biology*, 2020.

- A50. "Effect of metal ions on the activity of ten NAD-dependent formate dehydrogenases", *The Protein Journal*, 2020.
- A51. "Hydrogen sulphide and nitric oxide cooperate in cardioprotection against ischemia/reperfusion injury in isolated rat heart. in vivo", *In Vivo*, 2020.
- A52. "Conserved amino acid residues that affect structural stability of candida boidinii formate dehydrogenase.", *Applied Biochemistry and Biotechnology*, 2020.
- A53. "May dexpanthenol, platelet-rich plasma, and thymoquinone provide new hope to maintain liver regeneration after partial hepatectomy?", *The Turkish Journal of Gastroenterology*, 2019.
- A54. "Can follicular Emmprin and BMP 4 levels predict ICSI outcome?", *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*, 2019.
- A55. "Quercus pyrenaica Honeydew Honey With High Phenolic Contents Cause DNA Damage, Apoptosis, and Cell Death Through Generation of Reactive Oxygen Species in Gastric Adenocarcinoma Cells", *INTEGRATIVE CANCER THERAPIES*, 2019.
- A56. "Effects of *Oenothera biennis* L. and *Hypericum perforatum* L. extracts on some central nervous system myelin proteins, brain histopathology and oxidative stress in mice with experimental autoimmune encephalomyelitis", *BIOTECHNIC & HISTOCHEMISTRY*, 2019.
- A57. "Protective effects of caffeic acid phenethyl ester and thymoquinone on toluene induced liver toxicity", *BIOTECHNIC & HISTOCHEMISTRY*, 2019.
- A58. "Effect of enriched environment and predictable chronic stress on spatial memory in adolescent rats: Predominant expression of BDNF, nNOS, and interestingly malondialdehyde in the right hippocampus", *BRAIN RESEARCH*, 2019.
- A59. "Angiotensin ii type 2 receptor blocker pd123319 has more beneficial effects than losartan on ischemia–reperfusion injury and oxidative damage in isolated rat heart", *CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*, 2019.
- A60. "Role of urotensin-2 in 5-fluorouracil-related arterial vasoconstriction in cancer patients", *ONCOLOGY RESEARCH AND TREATMENT*, 2018.
- A61. "Quantitative evaluation of dental anxiety indicators in the serum and saliva samples of children treated under general anesthesia", *CLINICAL ORAL INVESTIGATIONS*, 2018.
- A62. "Healing of ischemic colon anastomosis in rats could be provided by administering dexpanthenol or coenzyme Q10", *Journal of Clinical Medicine*, 2018.
- A63. "Dose-dependent proliferative and cytotoxic effects of melatonin on human epidermoid carcinoma and normal skin fibroblast cells", *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*, 2018.
- A64. "Effects of Irisin and Exercise on Metabolic Parameters and Reproductive Hormone Levels in High-Fat Diet-Induced Obese Female Mice", *REPRODUCTIVE SCIENCES*, 2018.
- A65. "Protection with thymoquinone against formaldehyde-induced neurotoxicity in the rats", *BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY*, 2018.
- A66. "The effect of mesenchymal stem cell use on intra-abdominal adhesions in a rat model", *ANNALS OF SURGICAL TREATMENT AND RESEARCH*, 2018.
- A67. "Disentangling action from social space: Tool-use differently shapes the space around Us", *PLOS ONE*, 2016.
- A68. "Long term consequences on spatial learning-memory of low-calorie diet during adolescence in female rats; hippocampal and prefrontal cortex BDNF level, expression of NeuN and cell proliferation in dentate gyms", *BRAIN RESEARCH*, 2015.

D. Articles published in national peer-reviewed journals:

- D1. "Reducing oxidative stress and enhancing antioxidant defenses for faster healing in diabetic wounds: The role of topical metformin.", *INTERNATIONAL JOURNAL OF MEDICAL BIOCHEMISTRY*, 2025.
- D2. "Impact of High-Intensity Interval Training on Bone Metabolism and the Metabolic and Hormonal Profiles of Postmenopausal Women", *İstanbul Medical Journal*, 2025.
- D3. "Evaluation of the association of mucosa-associated invariant T (MAIT) cells with childhood asthma.", *Turkish Journal of Medical Sciences*, 2024.
- D4. "Gentamicin Induces Selective Toxicity in Metabolically Altered Vemurafenib-Resistant A375 Cells.", *Hacettepe Journal of Biology and Chemistry*, 2024.
- D5. "The healing effect of resveratrol and platelet rich plasma in corrosive esophagitis model in rats", *Cumhuriyet Medical Journal*, 2022.
- D6. "Çuha Çiçeği ve Sarı Kantaron Yağlarının Multiple Skleroz Modeli Oluşturulmuş Farelerdeki Jak/Stat Sinyal Yolakları Üzerine Etkisi", *Kırıkkale Üniversitesi Tıp Fakültesi Dergisi*, 2022.
- D7. "Assessment of Oxidative Stress Effects in Serum Determined by FT-IR Spectroscopy in Cholangiocarcinoma Patients", *Biointerface Research in Applied Chemistry*, 2022.
- D8. "Cuscuta campestris tedavisi ile Mide Kanseri Hücrelerinde Apoptozun İndüklenmesi ve Reaktif Oksijen Türlerinin Oluşumu Yoluyla Proliferasyonun Engellenmesi", *Ankara Eğitim ve Araştırma Hastanesi Tıp Dergisi*, 2021.
- D9. "Protective effect of resveratrol on the kidney in rats under immunosuppression with tacrolimus", *Journal of Surgery and Medicine*, 2021.

- D10. "Rheum Ribes L.'nin etanol ekstrelerinin malign melanoma hücreleri üzerine anti-kanser etkinliğinin araştırılması", Journal of Health Sciences and Medicine, 2020.
- D11. "Effects of Keto-Analogs in the Pathologic Findings of Diabetic Nephropathic Rats", Turkish Journal of Nephrology, 2020.
- D12. "Effects of Tempol in Lipopolysaccharide-Induced Liver Injury", European Journal of Biology, 2019.
- D13. "Çevre-İnsan Sağlığı İlişkisi Açısından Su ve Su Analizinin Önemi", İstanbul Tıp Fakültesi Dergisi, 2009.