CURRICULUM VITAE AND PUBLICATIONS LIST

CURRICULUM VITAE

Name and Surname: Huri Demirci

Academic Title: Associate Professor

Work Address:

Email: hdemirci@biruni.edu.tr

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

A1. Demirci H., "Alamandine enhanced spatial memory in rats by reducing neuroinflammation and altering BDNF levels in the hippocampus and prefrontal cortex.", *Scientific Reports*, no. 15, 2025.

A2. Demirci H., "Expression Patterns of miRNA in the Experimental Autoimmune Encephalomyelitis (EAE)/MS Model Treated With Oenothera biennis Oil", *Acta Neurologica Scandinavica*, no. 2025, 2025.

A3. Demirci H., "Electron microscopic analysis of pomegranate and black chokeberry effects on acute pancreatitis in rats", *Journal of Molecular Histology*, no. 56, 2025.

A4. Demirci H., "Assessment of serum survivin in women with placenta previa and accreta spectrum: a cross-sectional study", *Scientific Reports*, no. 15, 2025.

A5. Demirci H., "Response of miRNA to treatment with Hypericum perforatum L. oil in multiple sclerosis", *Acta Neurobiologiae Experimentalis*, no. 84, 2025.

A6. Demirci H., "Therapeutic Potential of Stromal Vascular Fraction in Enhancing Wound Healing: A Preclinical Study", *Aesthetic Plastic Surgery*, no. 49, 2024.

A7. Demirci H., "Chemical Composition Alterations in Rat Brain Hypothalamus Induced by Irisin Administration Using Spectroscopic and Machine Learning Techniques.", *Analytical Biochemistry*, no. 696, 2024.

A8. Demirci H., "Synbiotic supplementation ameliorates anxiety and myocardial ischaemia–reperfusion injury in hyperglycaemic rats by modulating gut microbiota", *Experimental Physiology*, no. 109, 2024.

A9. Demirci H., Şentürk H., "Human estrogen receptor alpha (ERα) targeted cyclic peptides inhibit cell growth and induce apoptosis in MCF-7 cells", *Turkish Journal of Biochemistry*, vol. 49, no. 4, pp. 542-550, 2024.

A10. Demirci H., "Oxidative stress and antioxidant status in threatened preterm labor", *Archives of gynecology and obstetrics*, vol. 309, no. 4, pp. 1395, 2024.

A11. Demirci H., "Beneficial effects of adipose-derived stromal vascular fraction on testicular injury caused by busulfan.", *Drug and chemical toxicology*, pp. 1, 2024.

A12. Demirci H., "The Effect of Nonstress Device Noise Level on Stress Parameters in Primigravid Women: A Randomized Controlled Trial.", *Journal of midwifery & women's health*, vol. 69, no. 2, pp. 279, 2024.

A13. Demirci H., "Exploring Benzo[b][1,4]Thiazine Derivatives: Multitarget Inhibition, Structure–Activity Relationship, Molecular Docking, and ADMET Analysis", *ChemistrySelect*, no. 9, 2024.

A14. Demirci H., "Structural analysis of wild-type and Val120Thr mutant Candida boidinii formate dehydrogenase by X-ray crystallography.", *Acta Crystallographica Section D - Structural Biology*, no. 79, 2023.

A15. Demirci H., "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*, no. 169, 2023.

A16. Demirci H., "Application of reductive amination by heterologously expressed Thermomicrobium roseumL-alanine dehydrogenase to synthesize L-alanine derivatives.", *Enzyme and microbial technology*, vol. 169, pp. 110265, 2023.

A17. Demirci H., "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*, no. 321, 2023.

A18. Demirci H., "Synthesis and Anticancerogenic Effect of New Generation Ruthenium-Based Nanoparticle from Homalothecium sericeum with Eco-Friendly Method", *Journal of Pharmaceutical Innovation*, no. 18, 2023.

A19. Demirci H., "The Novel 5-Fluorouracil Loaded Ruthenium-based Nanocarriers Enhanced Anticancer and Apoptotic Efficiency while Reducing Multidrug Resistance in Colorectal Cancer Cells", *Journal of fluorescence*, vol. 33, no. 3, pp. 1227, 2023.

A20. Demirci H., "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*, vol. 321, pp. 121627, 2023.

A21. Demirci H., "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*, vol. 46, no. 4, pp. 599, 2023.

A22. Demirci H., "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*, no. 54, 2023.

A23. Demirci H., "Baseline serum vitamin A and vitamin C levels and their association with disease severity in COVID-19 patients.", *Acta bio-medica : Atenei Parmensis*, vol. 94, no. 1, 2023.

A24. Demirci H., "Alteration of inflammation marker levels with alfa keto analogs in diabetic rats", *Nigerian Journal of Clinical Practice*, no. 25, 2022.

A25. Utkusavaş A., Gürevin E. G., Yılmazer N., Uvez A., Oktay F., Demirci H., Üstünova S., Esener O. B. B., Sönmez K., Erol Kutucu D. vd., "Effects of combined administration of doxorubicin and chloroquine on lung pathology in mice with solid Ehrlich ascites carcinoma", *Biotechnic & Histochemistry*, vol. 97, no. 8, pp. 555-566, 2022.

A26. Tüten A., Tüten N., Gök K., Hamzaoğlu K., Demirci H., Malik E., Güralp O., "Serum Vasostatin-1 Level is Increased in Women with Preeclampsia", *Zeitschrift für Geburtshilfe und Neonatologie*, vol. 226, no. 3, pp. 178-185, 2022.

A27. Can E., Oğlak S. C., Ölmez F., Demirci H., "Serum neutrophil gelatinase-associated lipocalin concentrations are significantly associated with the severity of COVID-19 in pregnant patients", *Saudi Medical Journal*, vol. 43, no. 6, pp. 559-566, 2022.

A28. Güleken Z., Demirci H., Bulut B., Paja W., Parlınska Wojtan M., Depcıuch J., "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*, vol. 274, no. 121119, pp. 1-8, 2022.

A29. Comba C., Özdemir İ. A., Demirayak G., Erdoğan Ş. V., Demir Ö., Yıldız G. Ö., Demirci H., Karakaş S., Gülseren V., Afşar S. vd., "The effect of omentectomy on the blood levels of adipokines in obese patients with endometrial cancer", *Obesity Research & Clinical Practice*, vol. 16, no. 3, pp. 242-248, 2022.

A30. Hamzaoğlu K., Alıcı Davutoğlu E., Demirci H., Madazlı R., "Prediction of preterm delivery in threatened preterm labour with short cervical length", *Journal of Obstetrics and Gynaecology*, vol. 42, no. 6, pp. 1911-1916, 2022.

A31. Depcıuch J., Parlınska Wojtan M., Serin K. R., Demirci H., Ulukaya E., Tarhan N., Güleken Z., "Differential of cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, vol. 272, no. 121006, pp. 1-6, 2022.

A32. Demirci H., "Impaired memory by hippocampal oxidative stress in rats exposed to 900 MHz electromagnetic fields is ameliorated by thymoquinone", *Toxicological & Environmental Chemistry*, no. 104, 2022.

A33. Demirci H., "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*, no. 273, 2022.

A34. Demirci H., "Differential of Cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis.", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, no. 272, 2022.

A35. Demirci H., "Serum vasostatin-1 level is increased in women with preeclampsia", *Zeitschrift für Geburtshilfe und Neonatologie*, no. 226, 2022.

A36. Demirci H., "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*, no. 58, 2022.

A37. Güleken Z., Jakubczyk P., Wıeslaw P., Krzysztof P., Demirci H., Öten E., Depcıuch J., Tarhan N., "Characterization of Covid-19 infected pregnant women sera using laboratory indexes, vibrational spectroscopy, and machine learning classifications", *Talanta*, vol. 237, no. 122916, pp. 1-9, 2022.

A38. Güleken Z., Demirci H., Depcıuch J., Tarhan N., "Diagnosis of endometriosis using endometrioma volume and vibrational spectroscopy with multivariate methods as a noninvasive method", *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, vol. 264, no. 120246, pp. 1-7, 2022.

A39. Tüten N., Güralp O., Gök K., Hamzaoğlu K., Öner Y. Ö., Makul M., Demirci H., Irmak K., Tüten A., Malik E., "Serum catestatin level is increased in women with preeclampsia", *Journal of Obstetrics and Gynaecology*, vol. 42, no. 1, pp. 55-60, 2022.

A40. Üstünova S., Kılıç A., Demirci H., Gürevin E. G., Eriş A. H., Meral İ., "Impaired memory by hippocampal oxidative stress in rats exposed to 900 MHz electromagnetic fields is ameliorated by thymoquinone", *Toxicological & Environmental Chemistry*, vol. 104, no. 1, pp. 176-193, 2022.

A41. Koçyiğit A., Aydoğdu G., Balkan E., Yenigün V. B., Güler E. M., Demirci H., Köktaşoğlu F., Gören A. C., Atayoğlu A. T., "The Acorn Honey Used for a Published Study was Mistakenly Listed as Quercus pyrenaica and Should Be Corrected to Quercus species", *Integrative Cancer Therapies*, vol. 21, pp. 1-2, 2022.

A42. Güleken Z., Demirci H., Bulut B., Paja W., Orzechowska B., Parlınska Wojtan M., Depcıuch J., "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*, vol. 273, no. 121029, pp. 1-10, 2022.

A43. Güleken Z., Demirci H., Bulut B., Depcıuch J., "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, vol. 204, no. 114250, pp. 1-9, 2021.

A44. Tüten N., Malik E., Gök K., Hamzaoğlu K., Makul M., Öner Y. Ö., Demirci H., Tüten A., Güralp O., "Serum neprilysin levels are elevated in preeclampsia", *Taiwanese Journal of Obstetrics and Gynecology*, vol. 60, no. 5, pp. 869-873, 2021.

A45. Güleken Z., Demirci H., Gültekin G. İ., Arıkan S., Yaylım İ., Hakan M. T., Sönmez D., Tarhan N., Depcıuch J., "Assessment of structural protein expression by FTIR and biochemical assays as biomarkers of metabolites response in gastric and colon cancer", *Talanta*, vol. 231, no. 122353, pp. 1-9, 2021.

A46. Güleken Z., Depcıuch J., Ege H., İlbay G., Kalkandelen C., Özbeyli D., Demirci H., Şener G., Tarhan N., Kuruca S. E., "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*, vol. 254, no. 119639, pp. 1-9, 2021.

A47. Duman T., Akyüz E., Demirci H., Koçyiğit A., Tülek A., Karataş E., Kırpınar İ., "Investigation of diagnostic proteins by 2d electrophoresis in major depression model induced by forced swim test in rats", *Protein & Peptide Letters*, vol. 28, no. 2, pp. 195-204, 2021.

A48. Karaca G., Demirci H., Özden H., "The Healing Effects of The Topical Mesenchymal Stem Cell Application on Colonic Anastomosis Subjected to Ischemia Reperfusion Injury", *KAFKAS UNIVERSITESI VETERINER FAKULTESI DERGISI*, vol. 27, no. 5, pp. 600, 2021.

A49. Yılmazer B., Isupov M. N., De Rose S. A., Demirci H., Bennınghoff J. C., Binay B., Lıttlechıld J. A., "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*, vol. 212, no. 3, pp. 1-9, 2020.

A50. Demirci H., "Effect of metal ions on the activity of ten NAD-dependent formate dehydrogenases", *The Protein Journal*, no. 39, 2020.

A51. Demirci H., "Hydrogen sulphide and nitric oxide cooperate in cardioprotection against ischemia/reperfusion injury in isolated rat heart. in vivo", *In Vivo*, no. 34, 2020.

A52. Demirci H., "Conserved amino acid residues that affect structural stability of candida boidinii formate dehydrogenase.", *Applied Biochemistry and Biotechnology*, no. 193, 2020.

A53. Demirci H., "May dexpanthenol, platelet-rich plasma, and thymoquinone provide new hope to maintain liver regeneration after partial hepatectomy?", *The Turkish Journal of Gastroenterology*, no. 30, 2019.

A54. Özbaşlı E., Demirci H., Baştu E., "Can follicular Emmprin and BMP 4 levels predict ICSI outcome?", *JOURNAL OF ASSISTED REPRODUCTION AND GENETICS*, vol. 36, no. 6, pp. 1133, 2019.

A55. Koçyiğit A., Güler E. M., Gören A. C., Atayoğlu A. T., Demirci H., "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*, vol. 18, 2019.

A56. Selek Ş., Demirci H., Meral İ., "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*, vol. 94, no. 2, pp. 83, 2019.

A57. Selek Ş., Demirci H., "Protective effects of caffeic acid phenethyl ester and thymoquinone on toluene induced liver toxicity", *BIOTECHNIC & HISTOCHEMISTRY*, vol. 94, no. 4, pp. 282, 2019.

A58. Akgün Dar K., Demirci H., Kaptan Z., "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*, vol. 1721, 2019.

A59. Demirci H., Meral İ., Gürel Gürevin E., "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*, vol. 97, no. 12, pp. 1131, 2019.

A60. Bilici A., Demir T., Koçyiğit A., Demirci H., "Role of urotensin-2 in 5-fluorouracil-related arterial vasoconstriction in cancer patients", *ONCOLOGY RESEARCH AND TREATMENT*, vol. 41, no. 9, pp. 549, 2018.

A61. Selek Ş., Demirci H., Yıldırım S., "Quantitative evaluation of dental anxiety indicators in the serum and saliva samples of children treated under general anesthesia", *CLINICAL ORAL INVESTIGATIONS*, vol. 22, no. 6, pp. 2380, 2018.

A62. Pehlivanlı F., Aydın O., Karaca G., Aydın G., Devrim T., Demirci H., Bakar B., Daphan Ç. E., "Healing of ischemic colon anastomosis in rats could be provided by administering dexpanthenol or coenzyme Q10", *Journal of Clinical Medicine*, vol. 7, no. 7, pp. 1-13, 2018.

A63. Koçyiğit A., Güler E. M., Karataş E., Çağlar H., Demirci H., "Dose-dependent proliferative and cytotoxic effects of melatonin on human epidermoid carcinoma and normal skin fibroblast cells", *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*, vol. 829, pp. 50-60, 2018.

A64. Zeybek Ş. Ü., Demirci H., Baştu E., Yüksel Özgör B., Gürel Gürevin E., Armutak E. İ., "Effects of Irisin and Exercise on Metabolic Parameters and Reproductive Hormone Levels in High-Fat Diet-Induced Obese Female Mice", *REPRODUCTIVE SCIENCES*, vol. 25, no. 2, pp. 291, 2018.

A65. Özer Ö. F., Demirci H., Tok O. E., Yılmaz O., "Protection with thymoquinone against formaldehyde-induced neurotoxicity in the rats", *BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY*, vol. 119, no. 11, pp. 730, 2018.

A66. Özden H., Aydın O., Uzun H., Demirci H., "The effect of mesenchymal stem cell use on intra-abdominal adhesions in a rat model", *ANNALS OF SURGICAL TREATMENT AND RESEARCH*, vol. 94, no. 2, pp. 62, 2018.

A67. Üstünova S., Hacıosmanoğlu E., Demirci H., Elibol B., Kılıç A., Hekimoğlu R., Tunç S., Atmaca R., Kaygusuz İ., Tunç S. vd., "Disentangling action from social space: Tool-use differently shapes the space around Us", *PLOS ONE*, vol. 16, no. 9, pp. 1-23, 2016.

A68. Kapucu A., Batu Ş., Akgün Dar K., Demirci H., Kaptan Z., "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*, vol. 1618, pp. 204, 2015.

D. Articles published in national peer-reviewed journals:

D1. Demirci H., "Reducing oxidative stress and enhancing antioxidant defenses for faster healing in diabetic wounds: The role of topical metformin.", *INTERNATIONAL JOURNAL OF MEDICAL BIOCHEMISTRY*, no. 8, 2025.

D2. Demirci H., "Impact of High-Intensity Interval Training on Bone Metabolism and the Metabolic and Hormonal Profiles of Postmenopausal Women", *İstanbul Medical Journal*, no. 26, 2025.

D3. Demirci H., "Evaluation of the association of mucosa-associated invariant T (MAIT) cells with childhood asthma.", *Turkish Journal of Medical Sciences*, no. 54, 2024.

D4. Demirci H., "Gentamicin Induces Selective Toxicity in Metabolically Altered Vemurafenib-Resistant A375 Cells.", *Hacettepe Journal of Biology and Chemistry*, no. 52, 2024.

D5. Özden H., Gömeç M., Şahin Y., Karaca G., Demirci H., Kilitçi A., "The healing effect of resveratrol and platelet rich plasma in corrosive esophagitis model in rats", *Cumhuriyet Medical Journal*, vol. 44, no. 3, pp. 282-287, 2022.

D6. Demirci H., Teloğlu E. Ş., Şentürk H., Üstünova S., Güleken Z., Selek Ş., "Çuha Çiçeği ve Sarı Kantaron Yağlarının Multiple Skleroz Modeli Oluşturulmuş Farelerdeki Jak/Stat Sinyal Yolakları Üzerine Etkisi", *Kırıkkale Üniversitesi Tıp Fakültesi Dergisi*, vol. 24, no. 2, pp. 225-235, 2022.

D7. Demirci H., Tarhan N., Büyük M., Serin K. R., Ulukaya E., Depcıuch J., Parlınska Wojtan M., Guleken Z., "Assessment of Oxidative Stress Effects in Serum Determined by FT-IR Spectroscopy in Cholangiocarcinoma Patients", *Biointerface Research in Applied Chemistry*, vol. 13, no. 2, pp. 1-10, 2022.

D8. Demirci H., Durmuş E., Hacıosmanoğlu E., Bozalı K., Şentürk H., Koçyiğit A., "Cuscuta campestris tedavisi ile Mide Kanseri Hücrelerinde Apoptozun İndüklenmesi ve Reaktif Oksijen Türlerinin Oluşumu Yoluyla Proliferasyonun Engellenmesi", *Ankara Eğitim ve Araştırma Hastanesi Tıp Dergisi*, vol. 54, no. 2, pp. 271-280, 2021.

D9. Özden H., Gömeç M., Şahin Y., Karaca G., Demirci H., Kilitçi A., "Protective effect of resveratrol on the kidney in rats under immunosuppression with tacrolimus", *Journal of Surgery and Medicine*, vol. 5, no. 2, pp. 144-148, 2021.

D10. Kirmit A., Takım K., Durmuş E., Güler E. M., Yenigün V. B., Demirci H., Koçyiğit A., "Rheum Ribes L.'nin etanol ekstrelerinin malign melanoma hücreleri üzerine anti-kanser etkinliğinin araştırılması", *Journal of Health Sciences and Medicine*, vol. 3, no. 2, pp. 148-152, 2020.

D11. Bildacı Y. D., Çoban G., Demirci H., Gürsu M., Elçioğlu Ö. C., Kazancıoğlu R., "Effects of Keto-Analogs in the Pathologic Findings of Diabetic Nephropathic Rats", *Turkish Journal of Nephrology*, vol. 29, no. 1, pp. 23-27, 2020.

D12. Serin P. S., Kandil A., Demirci H., Kaskavalcı T., Bulut E. C., Tansel C. D., "Effects of Tempol in Lipopolysaccharide-Induced Liver Injury", *European Journal of Biology*, vol. 78, no. 2, pp. 144-152, 2019.

D13. Demirci H., Önal A., "Çevre-İnsan Sağlığı İlişkisi Açısından Su ve Su Analizinin Önemi", *İstanbul Tıp Fakültesi Dergisi*, vol. 72, no. 2, pp. 65-70, 2009.