



CURRICULUM VITAE

Name and Surname: SERKAN ŞEN

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Foreign Languages Known (Score and Year): English, B2 Upper Intermediate, 2017

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Tip 2 diyabet modeli oluşturulan ratlarda asetilsalisilik asit'xxin beyin proinflatuvar sitokinler, vazopressin ve oksidatif stres üzerine etkisi

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Rabdomiyosarkom hücre hattında yüksek doz statinlerin neden olduğu myopati üzerine CAPE'in etkilerinin araştırılması

Roles in Projects:

Pterjium etyolojisinde rol oynayan biyomarkerlerin pterjium ve nüks pterjium dokularında karşılaştırılması (2023 - 2025)

Farklı kök kanal patlarının sitotoksik etkilerinin belirlenmesi (2023 - 2025)

Aday Bir Kemoteropatik Olarak Cinobufagin Malignant Melanoma Hücrelerinde JAK/STAT, MAPK/ERK, PI3K/AKT ve NF-κB Yolakları Üzerine Muhtemel Etkilerinin Araştırılması (2023 - 2024)

Transuda ve Eksuda Plevra Sıvılarında Kallikrein İlişkili Peptidazlar, Bradikinin ve Anjiyotensin Konverting Enzim Düzeylerinin Araştırılması (2023 - 2024)

Rabdomiyosarkom hücre hattında yüksek doz statinlerin neden olduğu myopati üzerine CAPE' in etkilerinin araştırılması (2021 - 2023)

İnsan Osteoartritik Kondrosit Kültüründe Terapötik Ultrasonun Hücre Proliferasyonu ve Proinflatuar İnterlökün Seviyeleri Üzerine Etkileri (2021 - 2022)

Rotavirüs NSP4 Proteini Uygulanan CACO-2 Hücre Hattında Lactobacillus Plantarum Bakteriyosininin Etkilerinin Araştırılması (2020 - 2021)

Deneyisel Pseudomonas aeruginosa enfeksiyon modeli oluşturulan alveoler epitel hücre hattında curcuminin antimikrobiyal rolü (2016 - 2021)

Tip 2 Diyabet Modeli Oluşturulan Ratlarda Asetilsalisilik Asit'in Beyin Proinflatuvar Sitokinler, Vasopressin ve Oksidatif Stres Üzerine Etkisi (2010 - 2011)

Awards:

Sözel Bildiri Ödülü (2024)

Sözel Bildiri Ödülü (2023)

PUBLICATIONS

A. Articles published in international peer-reviewed journals:

- A1. "In vitro assessment of cytokine modulation by choline salicylate, hyaluronic acid, lidocaine-based six different teething gels in human gingival fibroblast cells", *Odontology*, 2025.
- A2. "Potential Biomarkers in Pleural Effusions: ACE1, ACE2, and KLK12 Levels", *International Journal of Clinical Practice*, 2025.
- A3. "Therapeutic Ultrasound Modulates Cell Proliferation and Proinflammatory Cytokine Levels in Osteoarthritic Chondrocytes", *Journal of Cellular and Molecular Medicine*, 2025.
- A4. "Upshot of Some Bioactive Compounds on Angiogenesis in Retinal Pigment Epithelial Cells", *Journal of Cellular and Molecular Medicine*, 2025.
- A5. "Resveratrol and quercetin protect from Benzo(a)pyrene-induced autophagy in retinal pigment epithelial cells", *International Ophthalmology*, 2024.
- A6. "Comparison of Biomarkers Playing a Role in Pterygium Development in Pterygium and Recurrent Pterygium Tissues", *Diagnostics*, 2024.
- A7. "Comparison of biocompatibility of epoxy resin and bioceramic-based root canal sealers", *Clinical Oral Investigations*, 2024.
- A8. "Daidzein nanosuspension combined with 5-fluorouracil induces apoptosis and alleviate inflammation in Caco-2 colorectal adenocarcinoma cells", *Food Bioscience*, 2024.
- A9. "Daidzein nanosuspension in combination with cisplatin to enhance therapeutic efficacy against A549 non-small lung cancer cells: an in vitro evaluation", *Naunyn-Schmiedeberg's Archives of Pharmacology*, 2024.
- A10. "Acyl ghrelin, desacyl ghrelin and their ratio affect hepatic steatosis via PPAR γ signaling pathway", *Arab Journal of Gastroenterology*, 2024.
- A11. "Low-dose rosmarinic acid and thymoquinone accelerate wound healing in retinal pigment epithelial cells", *International Ophthalmology*, 2023.
- A12. "An investigation into the cellular-level adverse effects of tourniquet use on the infrapatellar fat pad in primary total knee arthroplasty: A prospective randomized study", *ACTA ORTHOPAEDICA et TRAUMATOLOGICA TURCICA*, 2023.
- A13. "Effects of quercetin on hepatic fibroblast growth factor-21 (FGF-21) and peroxisome proliferator-activated receptor gamma coactivator 1-alpha (PGC-1 α) levels in rats fed with high fructose", *MOLECULAR BIOLOGY REPORTS*, 2023.
- A14. "The effect of acetylsalicylic acid on vasopressin, serum insulin levels, insulin resistance, and biochemical parameters in rats induced with experimental diabetes type 2", *TURKISH JOURNAL OF MEDICAL SCIENCES*, 2017.
- A15. "Assessment of inflammatory biomarkers and oxidative stress in pulmonary thromboembolism: Follow-up results", *Inflammation*, 2014.

B. Papers presented at international scientific meetings and published in proceedings:

- B1. "CHOP and GRP78 Modulation by Paclitaxel and Quercetin in Breast Cancer", 12th International ACHARAKA Congress on Medicine, Nursing, Midwifery and Health Sciences, 2025.
- B2. "Effects of Letrozole, Carboplatin, and Sunitinib on Endoplasmic Reticulum Stress Markers in G361 Malignant Melanoma Cells", 13th International Artemis Scientific Research Congress, 2025.
- B3. "High-Dose Retinoic Acid Induces Autophagy in Retinal Pigment Epithelial Cells", III. International Marmara Scientific Studies Congress, 2025.
- B4. "Do Statins Influence Prognosis in Patients With Advanced Non-Small Cell Lung Cancer Treated With Nivolumab?", IMMUNO-Model Second Annual Conference, 2024.
- B5. "Laboratory Diagnosis of Hemoglobinopathies", HELIOS Cost Action CA22119 Molecular Research and Diagnosis of Hemoglobinopathies, 2024.
- B6. "Targeting P2X receptors in ocular diseases, an example of retinal detachment and dry eye disease", 3rd PRESTO Cost Action CA21130 Meeting, 2024.
- B7. "FARKLI DİŞ JELLERİNİN İNSAN GİNGİVAL FİBROBLAST HÜCRELERİNDE OLUŞTURULAN İN-VİTRO YARA MODELİ ÜZERİNDEKİ ETKİLERİNİN DEĞERLENDİRİLMESİ", 29.Uluslararası Türk Pedodonti Derneği Kongresi, 2023.
- B8. "POSSIBLE THERAPEUTIC EFFECT OF DICLOFENAC ON CYTOTOXICITY OF CISPLATIN IN HUMAN COLORECTAL CANCER (CACO-2) CELLS", 3RD INTERNATIONAL ARTEMIS CONGRESS ON HEALTH AND SPORT SCIENCES, 2023.
- B9. "Effects of Diclofenac on 5-Fluorouracil Cytotoxicity in Colorectal Cancer (Caco-2) Cells", 2 nd International Conference on Scientific and Academic Research, 2023.
- B10. "İnsan Osteoartritlik Kondrosit Kültüründe Terapötik Ultrasonun Hücre Proliferasyonu ve Proinflamatuvar İnterlökin Seviyeleri Üzerine Etkileri", Uluslararası Katılımlı Türk Romatoloji Kongresi 2023, 2023.
- B11. "Effects Of Daidzein And Daidzein Nanosuspension on Cisplatin Cytotoxicity in Colorectal Cancer (Caco-2) Cells", ASES INTERNATIONAL HEALTH, ENGINEERING AND SCIENCES CONGRESS, 2022.
- B12. "EFFECT OF TEA TREE OIL ON CYTOKINE EXPRESSION OF HUMAN GINGIVAL FIBROBLASTS: IN VITRO STUDY", The 12th Biennial Congress of the Pediatric Dentistry Association of Asia., 2022.

- B13. "YAŞLILARDA DİYABETİN PATOFİZYOLOJİSİ VE DÜŞKÜN YAŞLI DİYABETİKLERİN BAKIM VE TEDAVİLERİ", 4. INES INTERNATIONAL ACADEMIC RESEARCH CONGRESS 2018, 2018.
- B14. "DENEYSEL PSEUDOMONAS AERUGINOSA ENFEKSİYON MODELİ OLUŞTURULAN ALVEOLAR EPİTEL HÜCRELERİNDE CURCUMİNİN ANTİMİKROBİYAL ROLÜ", 4. INES INTERNATIONAL ACADEMIC RESEARCH CONGRESS 2018, 2018.
- B15. "OBEZİTE, İNSÜLİN DİRENCİ VE İNFLAMASYON ARASINDAKİ BAĞLANTI", 4. INES INTERNATIONAL ACADEMIC RESEARCH CONGRESS 2018, 2018.
- B16. "KEFİR PROBİYOTİKLERİNDEN ÜRETİLEN BAKTERİYOSİNLERİN ANTİVİRAL ETKİLERİ", 4. INES INTERNATIONAL ACADEMIC RESEARCH CONGRESS 2018, 2018.
- B17. "The Effects of Epstein Barr Virus Recombinant Proteins EBNA 1 and LMP 1 on The Endoplasmic Reticulum Stress, Apoptosis and Cell Proliferation in Pancreatic Beta Cell Culture", 1st International Symposium on Innovative Approaches in Scientific Studies, 2018.
- B18. "The Relationship Between Patient Satisfaction and Preference For The Institution In The Delivery Of Health Services", 1st International Symposium on Innovative Approaches in Smart Technologies, 2018.
- B19. "The effect of caffeic acid phenethyl ester (CAPE), a bioactive compound of propolis extract, on endoplasmic reticulum (ER) stress-induced apoptotic cell death in INS1-β cells.", 1st International Congress on Advances in Bioscience and Biotechnology, 2017.
- B20. "Endoplasmic Reticulum Stress in Plants and New Therapeutic Approaches to Plant Diseases", 1st INTERNATIONAL CONGRESS ON MEDICINAL AND AROMATIC PLANTS, 2017.
- B21. "Effects of acetylsalicylic acid on inflammation and oxidative stress in rats with experimentally induced type 2 diabetes mellitus.", 1st International Congress on Advances in Biosciences and Biotechnology, 2017.
- B22. "Anti microbial efficacy of curcumin and its potential contribution to the economy", 1st INTERNATIONAL CONGRESS ON MEDICINAL AND AROMATIC PLANTS, 2017.
- B23. "Telemedicine Applications in Turkey as a NATO Member and as a Balkan Country", Benchmarking Telemedicine: Improving Health Security in the Balkans, 2017.
- B24. "The effect of caffeic acid phenethyl ester (CAPE) an active component isolated from honeybee propolis, on inducing apoptosis in pancreatic insulinoma INS1-B cells", International Congress on Medicinal and Aromatic Plants, 2017.
- B25. "THE EFFECT OF CAFFEIC ACID PHENETHYL ESTER (CAPE), AN ACTIVE COMPONENT ISOLATED FROM HONEYBEE PROPOLIS, ON INDUCING APOPTOSIS IN PANCREATIC INSULINOMA INS1-B CELLS", 1st INTERNATIONAL CONGRESS ON MEDICINAL AND AROMATIC PLANTS, 2017.
- B26. "New approaches in cellular microbiology; endoplasmic reticulum stress and apoptosis in infections", 41st FEBS Congress, 2016.
- B27. "Epstein Barr virus EBNA1 and LMP1 recombinant proteins Can Virotherapeutic Agents treat Type 2 Diabetes", 18th Annual Meeting of European Society for Clinical Virology, 2015.
- B28. "Epstein Barrvirus EBNA1 and LMP1 recombinant proteins; Can virotherapeutic agent treat type 2 diabetes?", 18th Annual Meeting of European Society for Clinical Virology, 2015.
- B29. "EFFECTS OF CAFFEIC ACID PHENETHYL ESTER (CAPE) ON SOME BIOCHEMICAL AND HISTOPATHOLOGICAL PARAMETERS IN SELECTED TISSUES OF DIABETIC RATS", 4th International Congress of Molecular Medicine, 2011.
- B30. "THE EFFECT OF ACETYLSALICYLIC ACID (ASA) ON PLASMA ARGINO¹ VASOPRESSIN (AVP) LEVELS IN TYPE II DIABETICS", 4th International Congress of Molecular Medicine, 2011.

C. National/international books written or chapters in books:

C2. Chapters in national/international books written:

- C2.1. "Tıbbi Mikrobiyoloji Laboratuvar Kitabı", Nobel Tıp Kitabevi, 2013.

D. Articles published in national peer-reviewed journals:

- D1. "Modulation of Apoptosis and ER Stress Markers in Hepatocellular Carcinoma Cells by Irinotecan, Hesperidin, and Piperine", Medical Bulletin of Haseki, 2024.
- D2. "Berberine Synergizes with Cisplatin via Inducing Apoptosis on A549 non-Small Cell Lung Cancer Cells", European Journal of Therapeutics, 2023.
- D3. "ATORVASTATİN VE ROSUVASTATİNİN NEDEN OLDUĞU MİYOPATİYE KARŞI KAFEİK ASİD FENETİL ESTERİN KORUYUCU ETKİSİ", Kocatepe Tıp Dergisi, 2023.
- D4. "Berberine enhances the therapeutic effect of 5-fluorouracil in Caco-2 colorectal adenocarcinoma cells by alleviating inflammation and inducing apoptosis", Cukurova Medical Journal, 2023.
- D5. "Resveratrol attenuates benzo(a)pyrene-induced dysfunctions, oxidative stress and apoptosis in pancreatic beta cells", Advances in Bioscience and Biotechnology, 2019.

- D6. "Potential Contribution to Antidiabetic Treatments of Epstein-Barr Virus Proteins LMP1 and EBNA1", JOURNAL OF BIOTECHNOLOGY AND STRATEGIC HEALTH RESEARCH, 2018.
- D7. "Endoplasmik Retikulum Stresine Cevap Yolakları ve Tip 2 Diyabet Patogenezinde Endoplasmik Retikulum Stres Aracılı Beta Hücre Apoptosisinin Rolü", Kocatepe Tıp Dergisi, 2016.
- D8. "Tip 2 Diyabet Tedavisinde DPP 4 İnhibitörlerinin Etkinliği", Kocatepe Veterinary Journal, 2011.

E. Papers presented at national scientific meetings and published in proceedings:

- E1. "Biyoaktif bileşiklerden oleuropein, hesperidin, piperin, proantosyanidinler ve retinoik asidin retina pigment epitel hücrelerinde anjiyogenez üzerine etkileri", Türk Oftalmoloji Derneği 58. Ulusal Kongresi, 2024.
- E2. "Pterijum etyolojisinde rol oynayan biyomarkerlerin pterijum ve nüks pterijum dokularında karşılaştırılması", 36. TOD Yaz Sempozyumu, 2024.
- E3. "Daidzein Nanosüspansiyonu ve 5-Fluorourasil Kombine Tedavisinin Caco-2 Kolorektal Adenokarsinom Hücreleri Üzerindeki Potansiyel Toksisitesi", 5. Bölgesel Toksikoloji Sempozyumu, 2024.
- E4. "IL-6 RESEPTÖR İNHİBİSYONUNUN SERVIKS KAN TEDAVİSİNDEKİ ROLÜ", 11. Türk Tıbbi Onkoloji Kongresi, 2024.
- E5. "Resveratrol ve Quercetin'in ARPE-19 hücrelerinde Benzo(a)piren kaynaklı Otofaji Üzerine Etkileri", 7. TOD Canlı Cerrahi Sempozyumu, 2023.
- E6. "INS-1E (832/13) Pankreatik Beta Hücre Kültüründe EBV Rekombinant Proteinleri ENBA1 ve LMP1'in Hücre Proliferasyonu Üzerine Etkileri", XXXVI. Türk Mikrobiyoloji Kongresi, 2014.
- E7. "ER STRESİ OLUŞTURULAN PANKREATİK BETA HÜCRELERİNDE APOPTOZ ÜZERİNE ASETİLSALİSİLİK ASİTİN ETKİSİ", 25. Ulusal Biyokimya Kongresi, 2013.
- E8. "Aspirinin ER Stres Modeli Pankreas Beta Hücre Kültüründe DNA hasarı ve Oksidan Denge Üzerine Etkisi", 25. Ulusal Biyokimya Kongresi, 2013.
- E9. "Pulmoner tromboembolide inflamatuvar belirteçler ve oksidatif stresin değerlendirilmesi", Türk Toraks Derneği 16. Yıllık Kongresi, 2013.
- E10. "Gebelerde Hepatit B - C Sıklığı ve Bağışıklama", EKMUD 2013 Bilimsel Platformu "Laboratuvardan Kliniğe Enfeksiyonlar", 2013.
- E11. "The Effect of Acetyl Salicylic Acid on Insulin Secretion Reduced by Endoplasmic Reticulum Stress mRNA Expression Levels of PDX 1 Wnt4 and FoxO1", 24. Ulusal Biyokimya Kongresi, 2012.
- E12. "ENDOPLAZMİK RETİKULUM (ER) STRES ARACILI İNSÜLİN SEKRESYONU DÜŞÜKLÜĞÜNE ASETİLSALİSİLİK ASİT (ASA)'İN ETKİSİ: PDX-1, WNT-4 VE FOXO1 MRNA EKSPRESYON DÜZEYLERİ.", 24. Ulusal Biyokimya Kongresi, 2012.
- E13. "Deneyisel Endoplasmik Retikulum (ER) Stres Modeli Oluşturulan Pankreatik Beta Hücre Kültüründe Çörek Otu (Nigella sativa) Ekstrelerinin DNA Hasarı Üzerine Etkisi", XII. Ulusal Tıbbi Biyoloji ve Genetik Kongresi, 2011.
- E14. "Kafeik Asit Fenetil Ester Cape in Deneyisel Endoplasmik Retikulum Stresi Oluşturulan Pankreatik Beta Hücre Kültüründe INS1 E 832 13 Proliferasyondan Sorumlu Genlerin Ekspresyon Düzeyleri Üzerine Etkisi", XXIII. Ulusal Biyokimya Kongresi, 2011.
- E15. "Asatilsalisilk Asit (ASA)'nın Pankreas Beta Hücre Fonksiyonu, İnsülin Rezistansı Ve Serum Proteinlerine Etkisi", 22. Ulusal Biyokimya Kongresi, 2010.
- E16. "Asetilsalisilik Asit (ASA)'nın Antihiperglisemik Etkinliğine Karşı Yeni Bir Yaklaşım", 22. Ulusal Biyokimya Kongresi, 2010.
- E17. "Afyonkarahisar Toprak Actinomyces İzolatlarının Ağır Metal Toleransı", 19. Ulusal Biyoloji Kongresi, 2008.
- E18. "Afyonkarahisar İlinden İzole Edilen Actinomyces Suşlarından Antimikrobiyal Madde Üretiminin Araştırılması", İstanbul Teknik Üniversitesi Moleküler Biyoloji ve Genetik Öğrenci Kongresi 2007, 2007.
- E19. "Tekstil Fabrikası Atık Sularının Allium Cepa L Kök Ucu Hücrelerindeki Mitoz Bölünme Üzerine Etkileri", Selçuk Üniversitesi 14. Ulusal Biyoloji ve Öğrenci Kongresine, 2007.