

Assoc. Prof. Ezgi AVŞAR ABDİK

Personal Information

Office Phone: [+90 212 440 0000](tel:+902124400000) Extension: 20166

Email: e.avsarabdik@istanbul.edu.tr

Web: <https://avesis.istanbul.edu.tr/e.avsarabdik>

International Researcher IDs

ORCID: 0000-0003-0132-3234

Yoksis Researcher ID: 351989

Education Information

Post Doctorate, Yeditepe University, Genetik ve Biyomühendislik, Turkey 2017 - 2021

Doctorate, Yeditepe University, Genetik ve Biyomühendislik, Turkey 2011 - 2017

Undergraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü, Turkey 2007 - 2011

Certificates, Courses and Trainings

Health&Medicine, Deney Hayvanları Kullanım Sertifikası, Yeditepe Üniversitesi, 2019

Research Areas

Health Sciences, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Aquatic Sciences, Akuatik Biyoteknoloji ve Genomik Bölümü, 2023 - Continues

Assistant Professor, Istanbul Kultur University, 2021 - 2023

Academic and Administrative Experience

Erasmus Program Institutional Coordinator, Istanbul Kultur University, 2022 - 2023

Courses

Araştırma Yöntemleri, Postgraduate, 2023 - 2024

Bilimsel Deneyim, Undergraduate, 2022 - 2023

Moleküler Biyolojide İleri Teknikler, Postgraduate, 2022 - 2023

Genetics, Undergraduate, 2023 - 2024

Bilimsel Araştırma Yöntemleri, Doctorate, 2022 - 2023

Moleküler Mikrobiyoloji Laboratuvarı, Undergraduate, 2022 - 2023

İleri İnsan Genetiği, Doctorate, 2022 - 2023
İnsan Genetiği, Undergraduate, 2022 - 2023
Genetik Mühendisliği, Undergraduate, 2022 - 2023

Advising Theses

Avşar Abdik E., Allantoinin cilt onarımındaki rolünün değerlendirilmesi, Postgraduate, G.GÖKÇE(Student), 2023
Avşar Abdik E., Sodyum perborat tetrahidratın pankreas kanseri üzerindeki sitotoksik etkisinin araştırılması, Postgraduate, S.KHALIL(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Perspective on the Characterization of Early Neural Progenitor Cell-Derived Extracellular Vesicles for Targeted Delivery to Neuroblastoma Cells**
Kırbaş O. K., Bozkurt B. T., Yıldırım M. R., Taşlı P. N., Abdik H., Şahin F., AVŞAR ABDİK E.
Neurochemical Research, vol.49, no.9, pp.2364-2378, 2024 (SCI-Expanded)
- II. **The emerging role of breast cancer derived extracellular vesicles-mediated intercellular communication in ovarian cancer progression and metastasis**
Yıldırım M. R., Kırbaş O. K., Abdik H., Şahin F., AVŞAR ABDİK E.
Medical Oncology, vol.41, no.1, 2024 (SCI-Expanded)
- III. **Dual Akt and Bcl-2 inhibition induces cell-type specific modulation of apoptotic and autophagic signaling in castration resistant prostate cancer cell lines**
Abdik E., Abdik H., Turan D., Sahin F., Berger M. R., Kaleagasioglu F.
MOLECULAR BIOLOGY REPORTS, vol.48, no.12, pp.7755-7765, 2021 (SCI-Expanded)
- IV. **Sodium Pentaborate Pentahydrate ameliorates lipid accumulation and pathological damage caused by high fat diet induced obesity in BALB/ c mice**
Abdik H., Cumbul A., Hayal T. B., Abdik E., Tasli P. N., Kirbas O. K., Baban D., Sahin F.
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY, vol.66, 2021 (SCI-Expanded)
- V. **Grapefruit-derived extracellular vesicles as a promising cell-free therapeutic tool for wound healing**
Savci Y., Kirbas O. K., Bozkurt B. T., Abdik E., Tasli P. N., Sahin F., Abdik H.
FOOD & FUNCTION, vol.12, no.11, pp.5144-5156, 2021 (SCI-Expanded)
- VI. **Differentiated pre-adipocytes promote proliferation, migration and epithelial-mesenchymal transition in breast cancer cells of different p53 status**
Avsar Abdik E.
MOLECULAR BIOLOGY REPORTS, vol.48, no.6, pp.5187-5198, 2021 (SCI-Expanded)
- VII. **Evaluation of the neuroprotective potential of caffeic acid phenethyl ester in a cellular model of Parkinson's disease**
Turan D., Abdik H., Sahin F., Abdik E.
EUROPEAN JOURNAL OF PHARMACOLOGY, vol.883, 2020 (SCI-Expanded)
- VIII. **A Novel Approach to Septal Perforation Repair: Septal Cartilage Cells Induce Chondrogenesis of hASCs In Vitro**
Safak A. S., Abdik E., Abdik H., Tasli P. N., Sahin F.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.188, no.4, pp.942-951, 2019 (SCI-Expanded)
- IX. **Suppressive Role of Boron on Adipogenic Differentiation and Fat Deposition in Human Mesenchymal Stem Cells**
Abdik E., Abdik H., Tasli P. N., Deniz A. A. H., Sahin F.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.188, no.2, pp.384-392, 2019 (SCI-Expanded)
- X. **ABT-737 and erufosine combination against castration-resistant prostate cancer: a promising but cell-type specific response associated with the modulation of anti-apoptotic signaling**

Abdik E., Kalegasioglu F., Abdik H., Sahin F., Berger M. R.
ANTI-CANCER DRUGS, vol.30, no.4, pp.383-393, 2019 (SCI-Expanded)

- XI. **The effects of bisphosphonates on osteonecrosis of jaw bone: a stem cell perspective**
Abdik H., Abdik E., Demirci S., Dogan A., Turan D., Sahin F.
MOLECULAR BIOLOGY REPORTS, vol.46, no.1, pp.763-776, 2019 (SCI-Expanded)
- XII. **Mesenchymal Stem Cell Isolation from Pulp Tissue and Co-Culture with Cancer Cells to Study Their Interactions**
Dogan A., Demirci S., Apdik H., Apdik E., Sahin F.
JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, vol.2019, no.143, 2019 (SCI-Expanded)
- XIII. **Dental pulp stem cells (DPSCs) increase prostate cancer cell proliferation and migration under in vitro conditions**
Dogan A., Demirci S., Apdik H., Apdik E., Sahin F.
TISSUE & CELL, vol.49, no.6, pp.711-718, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Caffeic acid phenethyl ester (CAPE): An active component of propolis: A review on its therapeutic potentials**
Barış A., AVŞAR ABDİK E., Abdik H.
Studies in Natural Products Chemistry, vol.83, pp.183-205, 2024 (Scopus)
- II. **Melatonin as a Potential Therapeutic Tool in Allergic Rhinitis Induced by House-Dust Mite**
şişman a. s., Taşlı P. N., AVŞAR ABDİK E., Abdik H., Şahin F.
Cumhuriyet Science Journal, vol.44, no.3, pp.436-443, 2023 (Peer-Reviewed Journal)
- III. **The Protective Effects of Sodium Pentaborate Tetrahydrate Against UVB-induced Apoptosis in Human Keratinocytes**
AVŞAR ABDİK E.
Hittite Journal of Science and Engineering, vol.9, no.3, pp.213-218, 2022 (Peer-Reviewed Journal)
- IV. **Caffeic Acid Phenethyl Ester Alleviates Cryodamage To Lung Cancer Cells During Cryopreservation**
AVŞAR ABDİK E.
Hittite Journal of Science and Engineering, vol.8, no.3, pp.247-253, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **DRUG RESISTANCE IN CANCER: A TUMOR MICROENVIRONMENTAL PERSPECTIVE**
AVŞAR ABDİK E.
in: RECENT STUDIES IN BASIC MEDICAL SCIENCES, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.101-114, 2022
- II. **Stem Cells: An Overview and Potential Therapeutic Applications**
AVŞAR ABDİK E., Erkilinçoğlu A. L., Yıldırım M. R., Savcı Y., ABDİK H.
in: Current Approaches in Science of Life, , Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, pp.3-37, 2021
- III. **Zooming in across the Skin: A Macro-to-Molecular Panorama**
DENİZ A. A., AVŞAR ABDİK E., ABDİK H., Aydın S., ŞAHİN F., TAŞLI P. N.
in: Advances in Experimental Medicine and Biology-Cell Biology and Translational Medicine, , Editor, Springer, pp.157-200, 2020
- IV. **A novel virtue in stem cell research: exosomes and their role in differentiation**
ABDİK H., AVŞAR ABDİK E., DENİZ A. A., TAŞLI P. N., ŞAHİN F.
in: Advances in Experimental Medicine and Biology-Cell Biology and Translational Medicine, , Editor, Springer, pp.133-146, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Sodium Pentaborate Pentahydrate Prevents Lps-Induced Neuroinflammation in Microglial Cells**
GÜDEN D. S., AVŞAR ABDİK E., KALEAĞASIOĞLU S. F.
15th World Congress on Inflammation, Turkey, 5 - 08 July 2022, pp.16-17
- II. **Synergistic Anti-Cancer Effects of Caffeic Acid Phenethyl Ester and Erufosine in Breast Cancer Cell Line**
Erkılınçoğlu A. L., ŞAHİN F., AVŞAR ABDİK E.
4th International Health Sciences and Innovation Congress, Azerbaijan, 5 - 06 July 2022, pp.187-188
- III. **Evaluation of Anti-Cancer Activity of Cape and Hydroquinone Combination on Melanoma Cells.**
AVŞAR ABDİK E.
V. International Icontech Conference on Innovative Surveys in Positive Sciences, Turkey, 5 - 06 February 2022, pp.307-308
- IV. **The Role of Breast Cancer Derived Extracellular Vesicles in Mediating Proliferation and Metastasis of Ovarian Cancer**
Yıldırım M. R., ABDİK H., ŞAHİN F., AVŞAR ABDİK E.
3rd INTERNATIONAL 5 OCAK CONGRESS ON APPLIED SCIENCES, Turkey, 4 - 05 January 2022, pp.308-310
- V. **Use of Specialized CAPE-loaded Extracellular Vesicles as a Targeted Approach in Treatment of Neuroblastoma**
AVŞAR ABDİK E., ABDİK H., TAŞLI P. N., Kırbaş O. K., Bozkurt B. T., ŞAHİN F.
International Conferences on Science and Technology, KARADAĞ, 8 - 10 September 2021, pp.10-11
- VI. **Carrying Medicine with Natural Drug Carriers – CAPE Loaded Extracellular Vesicles**
Kırbaş O. K., TAŞLI P. N., Bozkurt B. T., ABDİK H., ŞAHİN F., AVŞAR ABDİK E.
Euro Asia 8th. International Congress on Applied Sciences, Uzbekistan, 15 - 16 March 2021, pp.124-125
- VII. **The roles of Conditioned Media from the Breast Cancer Cells in Proliferation and Angiogenesis Capacities of the Endothelial Cells.**
AVŞAR ABDİK E., ABDİK H., ŞAHİN F.
9th International Molecular Biology and Biotechnology Congress, Turkey, 6 - 10 December 2020, pp.82
- VIII. **Boron-containing compounds as potential anti-obesity agents**
ABDİK H., DOĞAN A., Demirci S., HAYAL T. B., AVŞAR ABDİK E., TAŞLI P. N., Kırbaş O. K., ŞAHİN F.
International Symposium on Boron, Turkey, 17 - 19 April 2019, pp.1079-1084
- IX. **The Effects of Boron on Adipogenesis and Fat Deposition in Human Adipose-Derived Stem Cells.**
AVŞAR ABDİK E., ABDİK H., TAŞLI P. N., DENİZ A. A., ŞAHİN F.
International Symposium on Boron, Turkey, 17 - 19 April 2019, pp.1074-1078
- X. **Using extracellular vesicles isolated from grapefruit as a wound healing agent**
ABDİK H., Kırbaş O. K., TAŞLI P. N., AVŞAR ABDİK E., Savcı Y., ŞAHİN F.
3rd International Congress on Stem Cell and Cellular Therapies, Turkey, 12 - 14 April 2019
- XI. **A new perspective for treatment of castration resistant prostate cancer: combination of Erufosine and ABT-737.**
AVŞAR ABDİK E., KALEAĞASIOĞLU S. F., ABDİK H., Turan D., Berger M. R., ŞAHİN F.
3rd International Congress on Stem Cell and Cellular Therapies, Turkey, 12 - 14 April 2019
- XII. **Activation of lymphocytes against melanoma cells by exosomes derived from pomegranate**
TAŞLI P. N., AVŞAR ABDİK E., DENİZ A. A., Bozkurt B. T., Kırbaş O. K., ABDİK H., ŞAHİN F.
ISREC-SCC Symposium, Switzerland, 8 - 11 September 2018, pp.68
- XIII. **The Effects of Bisphosphonates on Osteonecrosis of Jaw Bone: A Stem Cell Perspective**
ABDİK H., DOĞAN A., Demirci S., AVŞAR ABDİK E., ŞAHİN F.
18th International Conference on Stem Cell Engineering, England, 29 - 30 September 2016, pp.1950

Supported Projects

Avşar Abdik E., TUBITAK Project, Biyoteknolojik Ajan Geliştirilmesine Yönelik Özelleştirilmiş KAFE Yüklü Eksozomların Nöroblastoma Hücreleri Üzerindeki Anti-kanser Etkisinin in vitro Araştırılması, 2019 - 2021
TUBITAK Project, Prostat kanserinin tedavisinde yeni bir yaklaşım olarak ABT-737 ve Erufosin kombinasyonu, 2016 - 2017

Patent

Avşar Abdik E., ISOLATED SEPTAL CARTILAGE EXOSOME USED FOR GENERATING CARTILAGE TISSUE, Patent, CHAPTER A Human Needs, The Invention Registration Number: US20220062348A1 , Standard Registration, 2022

Avşar Abdik E., GÜDÜMLÜ KAFE YÜKLÜ MİKROVESİKÜLER KANSER İLACI VE BUNUN GELİŞTİRİLMESİ YÖNTEMİ, Patent, CHAPTER A Human Needs, The Invention Registration Number: TR 2017 20642 A2 , Standard Registration, 2022

Avşar Abdik E., CAPE-LOADED TARGETED MICROVESICULAR CANCER DRUG AND METHOD FOR DEVELOPING THE SAME, Patent, CHAPTER A Human Needs, The Invention Registration Number: 025418/000074/PCT-US-001 , Standard Registration, 2022

Avşar Abdik E., A MEDIUM-BASED METHOD REALIZED FOR DIFFERENTIATION OF DENTAL STEM CELLS INTO NEURONS, Patent, CHAPTER A Human Needs, The Invention Recourse Number: US20230159888A1 , Standard Registration, 2021

Avşar Abdik E., KIKIRDAK DOKU OLUŞTURULMASI AMACIYLA KULLANILAN İZOLE SEPTAL KARTİLAJ EKSOZOMU, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2018/13459 , Standard Registration, 2018

Scientific Refereeing

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Istanbul University, Turkey, September 2023

Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Istanbul University, Turkey, September 2023

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Citation (WoS): 157

Citation (Scopus): 166

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H-Index (Scopus): 7