

Assoc. Prof. Ayşegül ERDEMİR

Personal Information

Office Phone: [+90 212 383 4462](tel:+902123834462)

Email: aerdemir@yildiz.edu.tr

Other Email: aysegulerdemir@gmail.com

Web: <https://avesis.yildiz.edu.tr/aerdemir>

International Researcher IDs

ScholarID: tZ9r6j8AAAAJ

ORCID: 0000-0002-6099-4903

Publons / Web Of Science ResearcherID: AAZ-8898-2020

ScopusID: 55362071700

Yoksis Researcher ID: 166607

Education Information

Post Doctorate, Massachusetts Institute of Technology, Koch Institute For Integrative Cancer Research, United States Of America 2015 - 2016

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, Turkey 2010 - 2014

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, Turkey 2008 - 2010

Undergraduate, Ege University, Faculty Of Science, Biology, Turkey 2004 - 2008

Dissertations

Doctorate, Investigation of gene polymorphisms associated with intracranial aneurysm in Turkish patients., Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, 2014

Postgraduate, Isolation, cloning and analysis of the enzyme encoding lactate dehydrogenase gene from *Theileria annulata* for drug design studies, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Bioengineering, 2010

Research Areas

Life Sciences, Molecular Biology and Genetics, Genetic Engineering, Molecular Biology of Cancer, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Molecular Biology And Genetics, 2022 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Molecular Biology And Genetics, 2017 - 2022

Expert PhD, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Bioengineering, 2012 - 2017

Researcher, Massachusetts Institute of Technology, The Koch Institute For Integrative Cancer Research, The Koch Institute For Integrative Cancer Research, 2015 - 2016

Courses

Doctorate

Cancer Genetics and Intracellular Transduction Pathways, Doctorate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Advanced Molecular Biology, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Undergraduate

Biology, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Cancer Biology, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Cell Biology, Undergraduate, 2021 - 2022

Gene Engineering, Undergraduate, 2020 - 2021, 2019 - 2020

Supervised Theses

Erdemir Üstündağ A., Nanoenkapsüle Fitokimyasalların Meme Kanseri Hücreleri Üzerindeki Etkisi, Postgraduate, A.ÇAKIR(Student), 2023

Erdemir Üstündağ A., Meme Kanseri Tedavisinde Kullanılmak Üzere Genistein Yüklü Nanopartiküllerin Sentezi ve in vitro Değerlendirilmesi, Postgraduate, G.MELİKE(Student), 2023

Erdemir Üstündağ A., Investigation of anti-proliferative and apoptotic effects of caffeic acid phenethyl ester loaded polymeric nanoparticles on human glioblastoma cells, Postgraduate, A.SALBAŞ(Student), 2022

Erdemir Üstündağ A., Comparative Analysis Of Antiproliferative and Apoptotic Effects of Temozolomide and Genistein Loaded Polymeric Nanoparticles in Human Glioblastoma Cells, Postgraduate, İ.METEOĞLU(Student), 2021

Erdemir Üstündağ A., Investigation of the effects of quercetin and caffeic acid phenethyl ester loaded nanoparticles on proliferation and apoptosis in colon cancer cell line., Postgraduate, R.DİLSU(Student), 2020

Designed Lessons

Undergraduate

Erdemir Üstündağ A., Kanser Biyolojisi, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of cellular and molecular mechanisms of caffeic acid phenethyl ester loaded nanoparticle systems in breast cancer cell lines**
Poyraz F. Ş., Colpan R. D., Derman S., Mansuroglu B., Erdemir A.
Process Biochemistry, vol.134, pp.32-43, 2023 (SCI-Expanded)
- II. **Bronchopulmonary dysplasia and wnt pathway-associated single nucleotide polymorphisms**
Akat A., Semerci S. Y., Ugurel O. M., Erdemir A., Danhaive O., Cetinkaya M., Turgut-Balik D.
PEDIATRIC RESEARCH, vol.92, no.3, pp.888-898, 2022 (SCI-Expanded)
- III. **Dietary suppression of MHC class II expression in intestinal epithelial cells enhances intestinal tumorigenesis**
Beyaz S., Chung C., Mou H., Bauer-Rowe K. E., Xifaras M. E., Ergin I., Dohnalova L., Biton M., Shekhar K., Eskiocak O., et al.
Cell Stem Cell, vol.28, pp.1922-1941, 2021 (SCI-Expanded)
- IV. **Genistein and Temozolomide-Loaded Polymeric Nanoparticles: A Synergistic Approach For Improved**

Anti-Tumor Efficacy Against Glioblastoma

Meteoglu I., Erdemir A.

Process Biochemistry, vol.110, pp.9-18, 2021 (SCI-Expanded)

- V. **In Vitro Evaluation of Immunogenicity of Recombinant OMP25 Protein Obtained from Endemic Brucella abortus Biovar 3 as Vaccine Candidate Molecule Against Animal Brucellosis**
Atabey T., Acar T., Derman S., Ordu E., Erdemir A., Tasli P. N., Gur G. K., Sahin F., Gulluce M., Arasoglu T.
PROTEIN AND PEPTIDE LETTERS, vol.28, no.10, pp.1138-1147, 2021 (SCI-Expanded)
- VI. **Co-delivery of quercetin and caffeic-acid phenethyl ester by polymeric nanoparticles for improved antitumor efficacy in colon cancer cells**
Colpan R. D., Erdemir A.
JOURNAL OF MICROENCAPSULATION, vol.38, pp.381-393, 2021 (SCI-Expanded)
- VII. **Quercetin-loaded nanoparticles enhance cytotoxicity and antioxidant activity on C6 glioma cells**
Ersoz M., Erdemir A., Derman S., Arasoglu T., Mansuroglu B.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, vol.25, pp.757-766, 2020 (SCI-Expanded)
- VIII. **Comparative evaluation of hesperetin loaded nanoparticles for anticancer activity against C6 glioma cancer cells**
Ersoz M., Erdemir A., Duranoglu D., Uzunoglu D., Arasoglu T., Derman S., Mansuroglu B.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, pp.319-329, 2019 (SCI-Expanded)
- IX. **Investigation of anti-cancer activity of hesperetin and hesperetin loaded polymeric nanoparticles on C6 glioma cells**
Ersoz M., Erdemir A., Uzunoglu D., ARASOĞLU T., DERMAN S., MANSUROĞLU B.
FEBS OPEN BIO, vol.8, pp.477, 2018 (SCI-Expanded)
- X. **Fasting Activates Fatty Acid Oxidation to Enhance Intestinal Stem Cell Function during Homeostasis and Aging.**
Mihaylova M., Cheng C., Cao A., Tripathi S., Mana M., Bauer-Rowe K., Abu-Remaileh M., Clavain L., Erdemir A., Lewis C., et al.
Cell stem cell, vol.22, 2018 (SCI-Expanded)
- XI. **Functional and structural characterization of the pentapeptide insertion of Theileria annulata lactate dehydrogenase by site-directed mutagenesis, comparative modeling and molecular dynamics simulations**
Erdemir A., Mutlu Ö.
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.74, pp.344-351, 2017 (SCI-Expanded)
- XII. **Biochemical and in silico Characterization of Recombinant L-Lactate Dehydrogenase of Theileria annulata**
Nural B., Erdemir A., Mutlu Ö., Yakarsonmez S., Danis Ö., Topuzogulları M., Turgut-Balık D.
MOLECULAR BIOTECHNOLOGY, vol.58, no.4, pp.256-267, 2016 (SCI-Expanded)
- XIII. **Cloning, Expression and Characterization of the Gene Encoding the Enolase from Fusobacterium nucleatum**
Yakarsonmez S., Cayir E., Mutlu Ö., Nural B., Sariyer E., Topuzogulları M., Milward M. R., Cooper P. R., Erdemir A., Turgut-Balık D.
APPLIED BIOCHEMISTRY AND MICROBIOLOGY, vol.52, no.1, pp.23-30, 2016 (SCI-Expanded)
- XIV. **Cloning of Intron-Removed Enolase Gene and Expression, Purification, Kinetic Characterization of the Enzyme from Theileria annulata**
Cayir E., Erdemir A., Ozkan E., Topuzogulları M., Bolat Z. B., Akat A., Turgut-Balık D.
MOLECULAR BIOTECHNOLOGY, vol.56, no.8, pp.689-696, 2014 (SCI-Expanded)
- XV. **Single Mutation in Shine-Dalgarno-Like Sequence Present in the Amino Terminal of Lactate Dehydrogenase of Plasmodium Effects the Production of an Eukaryotic Protein Expressed in a Prokaryotic System**
Cicek M., Mutlu Ö., Erdemir A., Ozkan E., Saricay Y., Turgut-Balık D.
MOLECULAR BIOTECHNOLOGY, vol.54, no.2, pp.602-608, 2013 (SCI-Expanded)
- XVI. **Isolation, cloning and sequence analysis of the lactate dehydrogenase gene from Theileria annulata**

may lead to design of new antitheilerial drugs

Erdemir A., Aktas M., Dumanli N., Turgut-Balik D.

VETERINARNI MEDICINA, vol.57, pp.559-567, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Anti-proliferative and apoptosis inducing activity of Calophyllum inophyllum L. oil extracts on C6 glioma cell line**
Erdemir A.
Tarla Bitkileri Merkez Araştırma Enstitüsü Dergisi, vol.3, no.1, pp.1-6, 2021 (Peer-Reviewed Journal)
- II. **Genotyping and analysis of rs3771150 polymorphism to investigate an association with bronchopulmonary dysplasia incidence in Turkish population**
Akat A., Yilmaz Semerci S., Ugurel O., Erdemir A., Cetinkaya M., Turgut-Balik D.
İstanbul Bilim Üniversitesi Florence Nightingale Tıp Dergisi, vol.4, no.1, pp.16-21, 2018 (Peer-Reviewed Journal)
- III. **GENOTYPING AND ANALYSIS OF rs27037 POLYMORPHISM FORANKYLOSING SPONDYLITIS**
Akbulut E., Erdemir A., Ozgen M., Baskin Y., Yalcin Gulec F., Balik D.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.6, no.1, pp.117-125, 2015 (Peer-Reviewed Journal)
- IV. **GENOTYPING AND ANALYSIS OF rs7501939 POLYMORPHISM FORPROSTATE CANCER**
Ozkan E., Erdemir A., Torer B. D., Tasci A. I., Baskin Y., Ellidokuz H., Balik D.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.6, no.1, pp.101-107, 2015 (Peer-Reviewed Journal)
- V. **GENOTYPING AND ANALYSIS OF rs911271 POLYMORPHISM FORINTRACRANIAL ANEURYSM**
Erdemir A., Ozkan E., Turan Guner N., Selcuk H. H., Kara B., Baskin Y., Ellidokuz H., Balik H. H., Balik D.
Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.6, no.1, pp.109-116, 2015 (Peer-Reviewed Journal)

Books

- I. **Nature of the Gene**
Balik D., Erdemir A., Ozkan E., Akbulut E.
in: Schaum's Outlines Biology, Karataş M., Sadi G., Editor, Nobel Yayın Dağıtım, Ankara, pp.93-109, 2015
- II. **DNA Replication**
Balik D., Erdemir A.
in: Moleküler Biyoloji, Karataş M., Editor, Nobel Yayın Dağıtım, Ankara, pp.87-99, 2012
- III. **DNA Replikasyonu**
BALIK D., ERDEMİR A.
in: Moleküler Biyoloji, Prof. Dr. Mehmet Karataş, Editor, Nobel Bilim ve Araştırma Merkezi Yayınları, pp.87-99, 2012

Papers Published in Refereed Scientific Meetings

- I. **Effect of Nanoencapsulated Phytochemicals on Breast Cancer Cells**
Cakir A., Tatar C., Erdemir A.
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.83
- II. **SYNTHESIS AND IN VITRO EVALUATION OF GENISTEIN-LOADED NANOPARTICLES FOR BREAST CANCER TREATMENT**
Bakar G. M., Tatar C., Erdemir A.
2. INTERNATIONAL DiCLE SCIENTIFIC STUDIES AND INNOVATION CONGRESS, Diyarbakır, Turkey, 28 - 29 May 2022, pp.180
- III. **Evaluation of genistein and temozolomide loaded polymeric nanoparticles on U87MG glioblastoma**

cell migration

Meteoglu I., Erdemir A.

23rd JCF Frühjahrssymposium, Leipzig, Germany, 29 March - 01 April 2021, pp.85

- IV. **Synthesis Of Caffeic Acid Phenethyl Ester and Temozolomide Loaded Polymeric Nanoparticles for use in Glioblastoma Treatment**
Salbas A., Erdemir A.
2nd INTERNATIONAL CONGRESS OF MULTIDISCIPLINARY STUDIES IN MEDICAL SCIENCES, İstanbul, Turkey, 13 - 14 February 2021, pp.284-285
- V. **Determination of Cytotoxic Activity of Temozolomide and Genistein-Loaded Nanoparticles on Glioblastoma Cells**
Meteoglu I., Erdemir A.
9. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, 18 - 20 December 2020, pp.34
- VI. **Evaluation of in vitro efficacy of resveratrol-loaded polymeric nanoparticles supplemented with vitamin C in colon cancer cells**
Erdemir A.
32. Ulusal Kimya Kongresi, 14 September 2020, pp.58
- VII. **Evaluation of The Cytotoxic Activity of Calendula officinalis on Glioblastoma Cell Line.**
Meteoglu I., Erdemir A.
3rd International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 19 - 20 March 2020, pp.138
- VIII. **Investigation of major histocompatibility complex class II expression in intestinal lineages.**
Erdemir A.
3rd International Eurasian Conference on Biological and Chemical Sciences, 17 March 2020, pp.163
- IX. **A nanobiotechnological approach: Caffeic acid phenethyl ester loaded polymeric nanoparticles and its cytotoxic effect in breast cancer cells.**
Poyraz F. Ş., Colpan R. D., Derman S., Mansuroglu B., Erdemir A.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.405
- X. **Determination of cytotoxic properties of quercetin-CAPE loaded PLGA nanoparticles in colon cancer cell line**
Colpan R. D., Erdemir A.
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.404
- XI. **Preparation and characterization of quercetin-cape-loaded nanoparticles for use in colon cancer treatment**
Colpan D., Erdemir A.
5. Biyomalzeme Günleri, İstanbul, Turkey, 22 October 2018, pp.2
- XII. **Investigation of anti-cancer activity of hesperetin and hesperetin loaded polymeric nanoparticles on C6 glioma cells**
ERSÖZ M., ERDEMİR A., UZUNOĞLU D., ARASOĞLU T., DERMAN S., MANSUROĞLU B.
43rd FEBS Congress, Biochemistry Forever, PRAG, Czech Republic, 7 - 12 July 2018, vol.8, pp.106
- XIII. **Cloning and Molecular Analysis of Endemic Brucella abortus Omp25 Gene**
Atabey T., Kurt Gur G., Ordu E., Erdemir A., Gulluce M., Arasoglu T.
4th International Congress on Applied Biological Sciences (ICABS), Eskişehir, Turkey, 03 May 2018, pp.169
- XIV. **Cloning of Peptidyl Prolyl cis/trans Isomerase from Theileria annulata ...**
Spahi S., Erdemir A., Yakarsonmez S., Sariyer E., Ugurel E., Aktas M., Balık D.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017
- XV. **Cloning of Peptidyl Prolyl cis/trans Isomerase from Theileria annulata**
Spahi S., ERDEMİR A., YAKARSÖNMEZ S., SARIYER E., Uğurel E., Aktaş M., BALIK D.
IVEK 3 rd International Convention of Pharmaceuticals and Pharmacies, Istanbul, Turkey, 26 - 29 April 2017
- XVI. **The Activity of Gabra3 in Breast Cancer Cells and Functional Perspective of Drug Repositioning**
Karaosmanoglu S., Erdemir A., Balık D.
3. International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2016, vol.1, no.1,

pp.1066

- XVII. Homology Modelling of Lactate Dehydrogenase from Theileria annulata**
NURAL B., ERDEMİR A., MUTLU O., TURGUT-BALIK D.
3rd International BAU Drug Design Congress, İstanbul, Turkey, 01 October 2015, pp.177
- XVIII. Genotyping and Analysis of Interleukin 23 Receptor Polymorphism for Ankylosing Spondylitis in Turkish Population**
Akbulut E., Erdemir A., Ozgen M., Baskin Y., Yalcın Gulec F., Turgut-Balik D.
4. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyonkarahisar, Turkey, 21 August 2015, pp.101
- XIX. Determination of Optimum pH Value and Thermal Stability Analysis of Lactate Dehydrogenase Enzyme of Theileria annulata**
Nural B., Yakarsonmez S., Erdemir A., Turgut-Balik D.
4. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyonkarahisar, Turkey, 21 August 2015, pp.78
- XX. The Effect of rs7141529 Polymorphism on Prostate Cancer Risk in Our Society**
Ozkan E., Erdemir A., Torer B. D., Tasci A. I., Baskin Y., Ellidokuz H., Turgut-Balik D.
4. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Afyonkarahisar, Turkey, 21 August 2015, pp.16
- XXI. Association Analysis between Endoplasmic Reticulum Aminopeptidase 1 ERAP1 Polymorphism with Ankylosing Spondylitis Disease Risk in Turkish Population**
Akbulut E., Erdemir A., Ozgen M., Baskin Y., Yalcin F., Balik D.
40th FEBS Congress, Berlin, Germany, 4 - 09 July 2015
- XXII. rs7743761 associated with disease risk of ankylosing spondylitis in Turkish population**
Akbulut E., Erdemir A., Mutlu O., Baskin Y., Yalcin Gulec F., Balik D.
40th FEBS Congress, Berlin, Germany, 4 - 09 July 2015
- XXIII. Genotyping and analysis of Interleukin 23 Receptor polymorphism for ankylosing spondylitis in Turkish population**
Akbulut E., Erdemir A., Ozgen M., Baskin Y., F. Y. G., Balik D.
21. European Congress Clinical Chemistry and Laboratory Medicine, Paris, France, 21 - 25 June 2015
- XXIV. Determining the relationship of rs684232 polymorphism with prostate cancer risk in our society**
Ozkan E., Erdemir A., Torer B. D., Tasci A. I., Baskin Y., Ellidokuz H., Turgut-Balik D.
21. Ulusal Kanser Kongresi, Antalya, Turkey, 22 April 2015, pp.550
- XXV. Association of rs7611694 polymorphism with Gleason score level in prostate cancer patients**
Ozkan E., Erdemir A., Torer B. D., Tasci A. I., Baskin Y., Ellidokuz H., Turgut-Balik D.
21. Ulusal Kanser Kongresi, Antalya, Turkey, 22 April 2015, pp.656
- XXVI. Kinetic Analysis of Lactate Dehydrogenase from Theileria annulata**
Nural B., Erdemir A., Danis O., Balik D.
International Symposium on Molecular Chemistry, İstanbul, Turkey, 19 December 2014, pp.142
- XXVII. Determination of the Inhibitory Effect of Some Coumarin Derivatives on Bacteroides fragilis D LDH**
NURAL B., ERDEMİR A., MUTLU Ö., BALIK D.
International Symposium on Molecular Chemistry, İstanbul, Turkey, 19 December 2014
- XXVIII. Kinetic characterization of enolase enzyme from Theileria annulata**
Cayir E., Erdemir A., Oktay E. Ö., Topuzogullari M., Bolat Z. B., Akat A., Balik D.
FEBS EMBO 2014 COnference, Paris, France, 30 August - 04 September 2014, vol.281, no.1, pp.578-579
- XXIX. Association of single nucleotide polymorphism rs10896449 on prostate cancer in Turkish population**
Ozkan E. M., Erdemir A., Torer B. D., Tasci A. I., Baskin Y., Ellidokuz H., Turgut-Balik D.
FEBS EMBO 2014 Conference, Paris, France, 30 August - 04 September 2014, vol.281, pp.101
- XXX. Production of Active Protein by Removal of Mutations Detected in the Gene Sequence of Theileria annulata Lactate Dehydrogenase Enzyme by Directed Mutagenesis**
Nural B., Erdemir A., Turgut-Balik D.
22. Ulusal Biyoloji Kongresi, Eskişehir, Turkey, 23 June 2014, pp.783
- XXXI. Evaluation of SNPs prior to genotyping studies**
Ozkan E., Erdemir A., Balik D.

III. International Congress of Molecular Biology and Biotechnology, Banja Luka, Bosnia And Herzegovina, 2 - 06 June 2014

XXXII. Multiple SNP genotyping of intracranial aneurysm patients by MassARRAY iPLEX platform to be used for risk assessment of the disease

Erdemir A., Ozkan E., Balik D.

III. International Congress of Molecular Biology and Biotechnology, Sarajevo, Bosnia And Herzegovina, 2 - 06 June 2014

XXXIII. Expression and purification of enolase enzyme from *Theileria annulata*

Cayir E., Erdemir A., Ozkan E., Topuzogulları M., Bolat Z. B., Akat A., Balik D.

2nd International BAU-Drug Design Congress, İstanbul, Turkey, 17 - 19 April 2014, pp.105

XXXIV. Production of Lactate Dehydrogenase from *Theileria annulata* in High Purity

Nural B., Erdemir A., Balik D.

2nd International BAU-Drug Design Congress, İstanbul, Turkey, 17 - 19 April 2014, pp.96

XXXV. Sequence Analysis of D-Lactate Dehydrogenase from Nontoxic and Enterotoxigenic strains of *Bacteroides fragilis*

Bolat Z. B., Cayir E., Ozkan E., Erdemir A., Balik D.

2nd International Congress of Molecular Biology Association of Turkey, İstanbul, Turkey, 22 November 2013, pp.22

XXXVI. Evaluation of the lactate dehydrogenase gene sequence of *Theileria annulata* to find a possible solution for protein being synthesized from inactive to active form

Nural B., Erdemir A., Aktas M., Dumanli N., Balik D.

2nd International Congress of Molecular Biology Association of Turkey, İstanbul, Turkey, 22 November 2013, pp.77

XXXVII. Expression of lactate dehydrogenase gene from *Fusobacterium nucleatum*

Sariyer E., Erdemir A., Milward M. R., Cooper P. R., Ozkan E. M., Turgut-Balik D.

38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey And Alderney, 6 - 11 July 2013, vol.280, pp.617

XXXVIII. Amplification and Cloning of the Gene Encoding Lactate Dehydrogenase Enzyme from *Bacteroides fragilis* that is Known to be Localized in Colon Cancer Tissues

Bolat Z. B., Cayir E., Ozkan E., Sears C., Erdemir A., Balik D.

1st International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 01 November 2012, pp.63

XXXIX. Removal of an intron from *Theileria annulata* enolase gene by PCR site directed mutagenesis

Cayir E., Akat A., Erdemir A., Ozkan E., Balik D.

II. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Antalya, Turkey, 01 November 2012, pp.98

XL. Cloning of gene encoding Lactate Dehydrogenase Enzyme from *Fusobacterium nucleatum*

Sariyer E., Erdemir A., Milward M., Cooper P., Ozkan E., Balik D.

II. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Antalya, Turkey, 01 November 2012, pp.96

XLI. Removal of introns from *Theileria annulata* lactate dehydrogenase gene by genetic engineering methods opens a route to the expression of the protein towards design of new anti-theilerial drugs

Erdemir A., Turgut-Balik D.

22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.352

XLII. Aminoacid sequence and protein homology modelling analyses of lactate dehydrogenase gene from *Theileria annulata*

Erdemir A., Aktas M. S., Dumanli N., Turgut-Balik D.

36th FEBS Congress of the Biochemistry for Tomorrows Medicine, Torino, Italy, 25 - 30 June 2011, vol.278, pp.156

XLIII. Optimization studies to increase transformation efficiency during cloning of lactate dehydrogenase gene of *Theileria annulata*

Erdemir A., Akat A., Cicek M., Balik D.

I. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Antalya, Turkey, 26 - 28 October 2010, pp.15

XLIV. Nucleotide analysis of the gene encoding the enzyme *Theileria annulata* lactate dehydrogenase

- Erdemir A., Aktas M., Dumanli N., Balik D.
I. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, Antalya, Turkey, 20 - 28 October 2010, pp.17
- XLV. **Restriction enzyme analysis of two introns of lactate dehydrogenase gene from different Theileria annulata isolates may help to distinguish strains**
Erdemir A., Aktas M., Dumanli N., Balik D.
V. International Bioengineering Congress, İzmir, Turkey, 16 - 18 June 2010, pp.97
- XLVI. **Investigation of sialic acid and tissue factor values in hyperlipidemic animals given Apo B and LDL conjugate**
Oktay S., Kilic B., Erdemir A., Sahin ., Alturfan E. I., Ayan F., Akdeste Z., Emekli N.
XXIV. Ulusal Kimya Kongresi, Zonguldak, Turkey, 12 - 13 June 2010, pp.36
- XLVII. **Isolation, Cloning and Sequence Analysis of Lactate Dehydrogenase Gene From Theileria annulata**
Erdemir A., Aktas ., Dumanli ., Balik D.
35th FEBS congress, Gothenburg, Sweden, 26 June - 01 July 2010, pp.12
- XLVIII. **Determination of Conjugation Degree of Different Protein-Polymer Conjugates by Fluorimetric Method**
Budama Battal Y., Erdemir A., Mustafaeva Z.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 9 - 10 May 2009, pp.34
- XLIX. **Investigation of Physical Interactions of Different Proteins with Polyelectrolytes by Fluorimetric Method**
Budama Battal Y., Erdemir A., Mustafaeva Z.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 9 - 10 May 2009, pp.25

Supported Projects

- MANSUROĞLU B., POYRAZ F. Ş., ERDEMİR ÜSTÜNDAĞ A., Project Supported by Higher Education Institutions, Glioblastoma Tedavisinde Kullanılmak Üzere Borik Asit Yüklü Hedefli Nanoformülasyonların Geliştirilmesi, 2021 - 2023
- ERDEMİR A., SALBAŞ A., Project Supported by Higher Education Institutions, Kafeik asit fenetil ester yüklü polimerik nanopartiküllerin insan glioblastoma hücreleri üzerindeki antiproliferatif ve apoptotik etkilerinin incelenmesi, 2020 - 2022
- ERDEMİR A., Meteoğlu İ., Project Supported by Higher Education Institutions, Temozolomid ve Genistein Yüklü Polimerik Nanopartiküllerin Anti-Proliferatif ve Apoptotik Etkilerinin İnsan Glioblastoma Hücrelerinde Karşılaştırmalı Analizi, 2019 - 2021
- ERDEMİR A., Çolpan R. D., Project Supported by Higher Education Institutions, Kolon kanser hücre hattında kuersetin ve kafeik asit fenetil ester yüklü nanopartiküllerin proliferasyon ve apoptoz üzerine etkilerinin incelenmesi, 2019 - 2020
- ERDEMİR A., MANSUROĞLU B., POYRAZ F. Ş., Project Supported by Higher Education Institutions, Kafeik Asit Fenetil Ester İçeren Nanopartiküler Sistemlerin Meme Kanseri Hücre Soylarında Hücresel ve Moleküler Mekanizmalarının İncelenmesi, 2018 - 2020
- Erdemir Üstündağ A., TÜBİTAK Project, Determination of the Effects of Calorie Restriction and mTORC1 Activity in Paneth Cells in Intestinal Tumorigenesis, 2015 - 2016

Memberships / Tasks in Scientific Organizations

- Molecular Biology Society, Member, 2021 - Continues, Turkey
Turkish Biochemistry Association, Member, 2010 - Continues, Turkey

Peer Reviews in Scientific Publications

JOURNAL OF PHARMACY AND PHARMACOLOGY, Journal Indexed in SCI-E, February 2020

JOURNAL OF PHARMACY AND PHARMACOLOGY, Journal Indexed in SCI-E, October 2019

JOURNAL OF PHARMACY AND PHARMACOLOGY, Journal Indexed in SCI-E, July 2019

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2019

Cumhuriyet Medical Journal, National Scientific Refreed Journal, March 2019

Turkish Journal of Biology, National Scientific Refreed Journal, September 2013

Metrics

Publication: 74

Citation (WoS): 258

Citation (Scopus): 611

H-Index (WoS): 7

H-Index (Scopus): 8

Scholarships

2219-International Postdoctoral Research Fellowship Program for Turkish Citizens, TUBITAK, 2015 - 2016

Awards

Erdemir A., International Scientific Publications Encouragement Award, Tubitak, June 2021

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2020

Erdemir A., Top 10 doctoral faculty members with the most publications, Yildiz Technical University Rectorate, May 2020

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2019

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2018

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2017

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2014

Erdemir A., International Scientific Publications Encouragement Award , Tubitak , June 2013

Erdemir A., Publication Incentive Award, Yildiz Technical University Rectorate, May 2013

ERDEMİR ÜSTÜNDAĞ A., 22nd IUBMB Congress/37th FEBS Congress Registration Bursary, IUBMB/FEBS/SEBBM, August 2012

Erdemir A., The Role of Statistics in Scientific Studies: Methods to Know and Application Fields Course Participation Scholarship, Turkish Biochemistry Association, March 2012