

Assoc. Prof. AYÇA ARSLAN ERGÜL

Personal Information

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Education Information

Post Doctorate, Bilkent Üniversitesi, Sinirbilim Programı, Turkey 2012 - 2017

Post Doctorate, University Of Strathclyde, Strathclyde Institute Of Pharmacy And Biomedical Sciences, United Kingdom 2009 - 2010

Doctorate, Bilkent Üniversitesi, Fen Ve Mühendislik Bilimleri Ens., Moleküler Biyoloji Ve Genetik, Turkey 2004 - 2009

Post Graduate, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Temel Hepatoloji, Turkey 2001 - 2004

Under Graduate, Boğaziçi Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik, Turkey 1996 - 2001

Biography

Ayça Arslan Ergül was graduated from Boğaziçi University, department of Molecular Biology and Genetics. She earned her MSc degree from Ankara University Faculty of Medicine, Basic Hepatology department, and did her PhD in Bilkent University Molecular Biology and Genetics department, on liver cancer and cellular senescence. In Scotland, Glasgow, she worked on cell-targeted therapies. For five years, she worked in Bilkent University, on brain aging and new cell formations and taught for the Neuroscience program. She was nominated as Changemaker by Sabancı Foundation for running the Friends, lets do science project as a volunteer. For the last three years, she is continuing her studies in Hacettepe University, Stem Cell Center. On her [YouTube channel](#) she is teaching molecular biology. She is married, and living with her husband [Özgür Ergül](#), three cats, and a dog.

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Senescence and immortality genes as markers of hepatocellular carcinogenesis, Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Moleküler Biyoloji Ve Genetik (Dr), 2009

Post Graduate, B hepatiti etiolojisinde konağa ait genetik faktörler, Ankara Üniversitesi, Hepatoloji Enstitüsü, 2004

Research Areas

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

Academic Titles / Tasks

Expert, Hacettepe Üniversitesi, Rektörlük, 2017 - Continues

Instructor, Ted University, Faculty Of Science And Letters, Department Of Basic Sciences , 2016 - 2017

Lecturer PhD, İhsan Doğramacı Bilkent University, Institute Of Engineering And Natural Sciences, 2014 - 2017

Lecturer PhD, İhsan Doğramacı Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, 2012 - 2015

Expert, University Of Strathclyde, Strathclyde Institute Of Pharmacy & Biomedical Sciences (Sıpbs), 2009 - 2010

Research Assistant, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2004 - 2009

Research Assistant, Ankara Üniversitesi, Hepatoloji Enstitüsü, 2002 - 2004

Courses

Introduction to Modern Biology, Under Graduate, 2016 - 2017

Behavioral Neuroscience, Post Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

Fundamentals of Molecular Genetics, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015

Molecular Genetics, Under Graduate, 2012 - 2013, 2013 - 2014, 2014 - 2015

Introduction to Modern Biology, Under Graduate, 2012 - 2013, 2014 - 2015

Neurobiology of Aging, Post Graduate, 2015 - 2016

Advising Theses

Arslan Ergül A., Adams M., INVESTIGATING THE MECHANISMS OF TELOMERE MAINTENANCE IN ZEBRAFISH TISSUES AND HUMAN BRAIN CANCER CELL LINES, Post Graduate, N.ŞERİFOĞLU(Student), 2019

Designed Lessons

Arslan Ergül A., Adams M., Neurobiology of Aging, Post Graduate, 2015 - 2016

Arslan Ergül A., Adams M., Behavioral Neuroscience, Post Graduate, 2014 - 2015

Taught Courses And Trainings

Arslan Ergül A., Çetinkaya F. D. , Biyogüvenlik Eğitimi, 2019 - 2019

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Zebrafish brain RNA sequencing reveals that cell adhesion molecules are critical in brain aging.**
Erbaba B., Burhan Ö., Şerifoğlu N., Muratoğlu B., Kahveci F., Adams M., Arslan-Ergül A.
Neurobiology of aging, vol.94, pp.164-175, 2020 (Journal Indexed in SCI Expanded)
- II. **Expression Levels of SMAD Specific E3 Ubiquitin Protein Ligase 2 (Smurf2) and its Interacting Partners Show Region-specific Alterations During Brain Aging.**
Sasik M., Eravsar E., Kinali M., Ergul A., Adams M.
Neuroscience, vol.436, pp.46-73, 2020 (Journal Indexed in SCI)
- III. **A Novel, Low-Cost Anesthesia and Injection System for Zebrafish Researchers.**
Oskay Y., Çetin B., Şerifoğlu N., Arslan-Ergül A., Adams M.
Zebrafish, vol.15, pp.85-95, 2018 (Journal Indexed in SCI Expanded)

- IV. **Aging alters the molecular dynamics of synapses in a sexually dimorphic pattern in zebrafish (*Danio rerio*).**
KAROGLU E., HALIM D., ERKAYA B., ALTAYTAS F., Arslan-Ergul A., KONU O., ADAMS M.
Neurobiology of aging, vol.54, pp.10-21, 2017 (Journal Indexed in SCI Expanded)
- V. **Short-term dietary restriction in old zebrafish changes cell senescence mechanisms.**
Arslan-Ergul A., ERBABA B., KAROGLU E., HALIM D., ADAMS M.
Neuroscience, vol.334, pp.64-75, 2016 (Journal Indexed in SCI Expanded)
- VI. **Tumour necrosis factor-alpha, interleukin-10, interferon-gamma and vitamin D receptor gene polymorphisms in patients with chronic hepatitis delta.**
Karatayli S. C. , ÜLGER Z., Ergul A., KESKİN O., KARATAYLI E., ALBAYRAK R., ÖZKAN M. M. , İDİLMAN R., YALÇIN K., BOZKAYA H., et al.
Journal of viral hepatitis, vol.21, no.4, pp.297-304, 2014 (Journal Indexed in SCI Expanded)
- VII. **Gene expression changes in aging zebrafish (*Danio rerio*) brains are sexually dimorphic.**
Arslan-Ergul A., ADAMS M.
BMC neuroscience, vol.15, pp.29, 2014 (Journal Indexed in SCI Expanded)
- VIII. **Aging, neurogenesis, and caloric restriction in different model organisms.**
Arslan-Ergul A., Ozdemir A. T. , Adams M. M.
Aging and disease, vol.4, no.4, pp.221-32, 2013 (Journal Indexed in SCI Expanded)
- IX. **Genome-wide transcriptional reorganization associated with senescence-to-immortality switch during human hepatocellular carcinogenesis.**
YILDIZ G., Arslan-Ergul A., BAGISLAR S., KONU O., YUZUGULLU H., GURSOY-YUZUGULLU O., OZTURK N., OZEN C., OZDAG H., ERDAL E., et al.
PloS one, vol.8, 2013 (Journal Indexed in SCI Expanded)
- X. **Computational study of scattering from healthy and diseased red blood cells.**
ERGÜL O., Arslan-Ergül A., GÜREL L.
Journal of biomedical optics, vol.15, pp.45004, 2010 (Journal Indexed in SCI Expanded)
- XI. **Senescence and immortality in hepatocellular carcinoma.**
OZTURK M., Arslan-Ergul A., BAGISLAR S., SENTURK S., YUZUGULLU H.
Cancer letters, vol.286, pp.103-13, 2009 (Journal Indexed in SCI Expanded)
- XII. **PPAR-alpha L162V polymorphism in human hepatocellular carcinoma.**
KOYTAK E. S. , MIZRAK D., BEKTAS M., VERDI H., Erguel A., IDILMAN R., CINAR K., YURDAYDIN C., Ersoez S., Karayalcin K., et al.
The Turkish journal of gastroenterology : the official journal of Turkish Society of Gastroenterology, vol.19, no.4, pp.245-9, 2008 (Journal Indexed in SCI Expanded)
- XIII. **Reprogramming of replicative senescence in hepatocellular carcinoma-derived cells.**
OZTURK N., ERDAL E., MUMCUOGLU M., AKCALI K., YALCIN O., SENTURK S., Arslan-Ergul A., GUR B., YULUG I., CETIN-ATALAY R., et al.
Proceedings of the National Academy of Sciences of the United States of America, vol.103, pp.2178-83, 2006 (Journal Indexed in SCI Expanded)
- XIV. **Peroxisome proliferator-activated receptor alpha L162V polymorphism in nonalcoholic steatohepatitis and genotype 1 hepatitis C virus-related liver steatosis.**
VERDI H., KOYTAK E., ONDER O., Ergül A., CINAR K., IDILMAN R., ERDEN E., BOZDAYI A., YURDAYDIN C., UZUNALIMOĞLU O., et al.
Journal of investigative medicine : the official publication of the American Federation for Clinical Research, vol.53, pp.353-9, 2005 (Journal Indexed in SCI Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **SMAD specific E3 ubiquitin protein ligase 2 (Smurf2) and its potential effects on inhibitory transmission in aging**

Karoglu E. T. , Tuz M. U. , Burhan O. P. , Kinali M., Arslan-Ergul A., Konu O., Adams M. M.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.321-322

II. Rigorous Solutions of Scattering Problems Involving Red Blood Cells

Erguel O., Arslan-Erguel A., Gurel L.

4th European Conference on Antennas and Propagation (EuCAP), Barcelona, Spain, 12 - 16 April 2010

III. A MAJOR ROLE FOR SENESENCE AND IMMORTALITY GENE NETWORK IN HEPATOCELLULAR CARCINOMA

Arslan-Ergul A., Bagislar S., Konu O., Ozturk N., Ozdag H., Ozturk A. R. , Erdal E., Karademir S., Sagol O., Mizrak D., et al.

60th Annual Meeting of the American-Association-for-the-Study-of-Liver-Diseases, Massachusetts, United States Of America, 30 October - 03 November 2009, vol.50

IV. Potential role of cytokine gene polymorphisms in outcome of chronic delta hepatitis

ULGER Z., EMIR F., Arslan-Ergul A., IDILMAN R., YALCIN K., UZUNALIMOGLU O., BOZKAYA H., BOZDAYI M. A. , YURDAYDIN C.

57th Annual Meeting of the American-Association-for-the-Study-of-Liver-Diseases, Massachusetts, United States Of America, 27 - 31 October 2006, vol.44

V. Role of TGF-beta signaling in hepatocellular senescence

SENTURK S., Arslan-Ergul A., OZTURK N., AKKIZ H., OZTURK M.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.225

VI. Induction of replicative senescence in hepatocellular carcinoma cells

OZTURK N., ERDAL E., MUMCUOGLU M., AKCALI K. C. , YALCIN O., SENTURK S., Arslan-Ergul A., TEZ M., OZTURK M.

31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.224-225

Supported Projects

ARSLAN ERGÜL A., ŞERİFOĞLU N., Project Supported by Higher Education Institutions, DNA Metiltransferazlar ve Telomerlerin Alternatif Uzatılması (ALT), 2018 - 2020

Arslan Ergül A., TUBITAK Project, Van Gölü İnci Kefali Genom Projesi Kapsamında İnci Kefali Balığının (Chalcalburnus tarichi) Genom ve Transkriptom Düzeylerinde Karakterizasyonu, 2018 - 2020

Arslan Ergül A., Çetinkaya F. D. , TUBITAK Project, UPKH (Uyarılmış Pluripotent Kök Hücre) Banka Teknolojileri Geliştirme, 2014 - 2019

ARSLAN ERGÜL A., ŞERİFOĞLU N., Project Supported by Higher Education Institutions, İnsan hTERT Geni Promotor Bölgesinin Beyin Kanseri Hücre Hatlarında İncelenmesi, 2017 - 2018

Arslan Ergül A., Kafalgönül H. H. , TUBITAK Project, Sinirsel yaşlanma sürecinde hareket algısı ve anahtar sinaptik hedefler arasındaki fonksiyonel bağlantılar, 2016 - 2018

Arslan Ergül A., Kafalgönül H. H. , TUBITAK Project, Mtor mutantlarında kalori kısıtlaması ve yaş arasındaki etkileşim, 2015 - 2018

Arslan Ergül A., TUBITAK Project, Yaşlanan Zebrabalığı Beyninden Kök Hücre Eldesi, 2014 - 2018

Arslan Ergül A., Adams M., TUBITAK Project, Zebra Balığı Modellerinde Yaşlanma Sürecinde Nörogenezis Karşılaştırması, 2013 - 2014

Öztürk M., TUBITAK Project, Siroz ve Hepatoselüler Kanserde Yaşlanma ve Ölümsüzlük Genleri ve İşlevsel Ağlar, 2006 - 2009

Activities in Scientific Journals

Experimental Results, Editor, 2020 - Continues

Memberships / Tasks in Scientific Organizations

Federation of Neuroscience Societies, Member, 2019 - Continues
Ekoloji ve Evrimsel Biyoloji Derneđi, Member, 2019 - Continues
Moleküler Biyoloji Derneđi, Member, 2014 - Continues

Citations

Total Citations (WOS):241
h-index (WOS):8

Awards

Arslan Ergül A., BAGEP, Bilim Akademisi, April 2017