

## Assoc. Prof. AYÇA ARSLAN ERGÜL

### Personal Information

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### International Researcher IDs

ScholarID: ttFxtkMAAAAJ

ORCID: 0000-0001-7024-907X

Publons / Web Of Science ResearcherID: F-6655-2012

ScopusID: 12545996800

Yoksis Researcher ID: 219189

### 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

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Temel Hepatoloji, Turkey 2001 - 2004

Undergraduate, Bogazici University, 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

Postgraduate, 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 University, Rektörlük, 2017 - Continues

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

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

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

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

Research Assistant, İhsan Dogramacı Bilkent University, Faculty Of Science, Department Of Molecular Biology And Genetics, 2004 - 2009

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

## Courses

Introduction to Modern Biology, Undergraduate, 2016 - 2017

Behavioral Neuroscience, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015

Fundamentals of Molecular Genetics, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013

Molecular Genetics, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013

Introduction to Modern Biology, Undergraduate, 2014 - 2015, 2012 - 2013

Neurobiology of Aging, Postgraduate, 2015 - 2016

## Advising Theses

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

## Designed Lessons

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

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

## Taught Courses And Trainings

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

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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 (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 (SCI-Expanded)
- 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 (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 (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 (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 (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 (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 (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 (SCI-Expanded)
- X. Computational study of scattering from healthy and diseased red blood cells.**
- ERGÜL O., Arslan-Ergul A., GÜREL L.  
 Journal of biomedical optics, vol.15, pp.45004, 2010 (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 (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 (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 (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.

## 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-Ergul A., Gurel L.  
4th European Conference on Antennas and Propagation (EuCAP), Barcelona, Spain, 12 - 16 April 2010
- III. **A MAJOR ROLE FOR SENESCENCE 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., 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., Kafalıgönül H. H., TUBITAK Project, Sinirsel yaşlanma sürecinde hareket algısı ve anahtar sinaptik hedefler arasındaki fonksiyonel bağlantılar, 2016 - 2018

Arslan Ergül A., Kafalıgönül H. H., TUBITAK Project, Mtor mutantlarında kalori kısıtlaması ve yaş arasındaki etkileşim, 2015 - 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 Ölümüslük 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 Derneği, Member, 2019 - Continues

Moleküler Biyoloji Derneği, Member, 2014 - Continues

## **Metrics**

Publication: 20

Citation (WoS): 247

Citation (Scopus): 258

H-Index (WoS): 8

H-Index (Scopus): 8

## **Awards**

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