



# ELIF MERTOĞLU KAMALI

## ASST. PROF.

Email : elif.mertoglu@istanbul.edu.tr

Office Phone : [+90 212 455 5700](tel:+902124555700) Extension: 15107

### International Researcher IDs

ORCID: 0000-0002-3606-4722

Publons / Web Of Science ResearcherID: A-9004-2018

Yoksis Researcher ID: 216994

### Learning Knowledge

---

Doctorate 2013 - 2019	Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik Anabilim Dalı, Turkey
--------------------------	---

---

Postgraduate 2009 - 2013	Istanbul University, Adli Tıp Enstitüsü, Fen Bilimleri Anabilim Dalı, Turkey
-----------------------------	--

---

Undergraduate 2005 - 2009	Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü, Turkey
------------------------------	---

### Certificates, Courses and Trainings

Health&Medicine, Kök Hücrede Standartlar Okulu, Kök Hücre ve Hücresel Tedaviler Derneği, 2019

Health&Medicine, Kanser Biyoenformatiğinde Yapay Zeka Kursu, İstinye Üniversitesi Moleküler Kanser Araştırma Merkezi (İSÜMKAM), 2019

### Dissertations

Doctorate, Temozolomid ve Resveratrolün Glioma Hücrelerindeki Stres Proteinleri Üzerine Etkileri, Istanbul University, Institute of Graduate Studies In Sciences, Moleküler Biyoloji Ve Genetik Anabilim Dalı, 2019

Postgraduate, Türkiye'deki Y-STR Mutasyon Oranlarının Belirlenmesi, Istanbul University, Adli Tıp Enstitüsü, Fen Bilimleri Anabilim Dalı, 2013

### Academic Titles / Tasks

---

Assistant Professor 2022 - Continues	Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü
---	---

---

Research Assistant PhD

2019 - 2022

Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü

Research Assistant

2014 - 2019

Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü

## Supported Projects

1. KARALI N. L., TEMİZER A. B., ÖZSOY N., ARDA E. Ş. N., ANDAÇ Ö., KARABAĞ N., MERTOĞLU E., PEKMEZ M., Project Supported by Higher Education Institutions, Benzotiyazolin Artığı Taşıyan Spiroindolinonlar: Sentez Yapı Tayini ve Biyolojik Etki Araştırmaları, 2020 - Continues
2. MERTOĞLU KAMALI E., ÖNAY UÇAR E., Project Supported by Higher Education Institutions, Bortezomib ve Resveratrolün Glioma Hücrelerindeki Stres Proteinleri Üzerine Etkileri, 2020 - Continues
3. ARDA E. Ş. N., PABUCCUOĞLU S. K., PEKMEZ M., KAPLAN Ö., MERTOĞLU E., GÖK M. K., GÖKÇE İ., Project Supported by Higher Education Institutions, Mcl-1 Protein İnhibitörü Yüklü Nanopartiküllerin Kanser Hücreleri Üzerindeki Sitotoksik ve Apoptotik Etkilerinin Araştırılması, 2019 - Continues
4. ÖNAY UÇAR E., PEKMEZ M., MERTOĞLU E., GÜNGÖR E., ŞENGELEN A., ARDA E. Ş. N., Project Supported by Higher Education Institutions, Hsp-spesifik siRNA ve Antioksidan Ajan Kombine Terapisinin Beyin Tümör Hücreleri Üzerindeki Etkileri, 2018 - 2021
5. KARALI N. L., BOZDAĞ M., NAESENS L., CİHAN ÜSTÜNDAĞ G., GÖKTAŞ F., APAYDIN Ç. B., SUPURAN C. T., VULLO D., CARTA F., STEVAERT A., et al., Project Supported by Higher Education Institutions, Sülfamoilfenil artığı taşıyan 1H-indol-2,3-dion 3-tiyosemikarbazon türevleri: Moleküler modelleme, sentez, yapı tayini, antikanser ve antiviral etki tayini, 2018 - 2021
6. ÖNAY UÇAR E., MERTOĞLU E., Project Supported by Higher Education Institutions, Temozolomid ve Resveratrolün Glioma Hücrelerindeki Stres Proteinleri Üzerine Etkileri, 2017 - 2019
7. ÖNAY UÇAR E., MERTOĞLU E., Project Supported by Higher Education Institutions, Farklı Konakçı Ağaçlarda Yaşayan Viscum album Bitki Ekstrelerinin Stres Proteinlerinin Ekspresyonları Üzerine Etkileri, 2017 - 2018
8. Yiğit H., Önay Uçar E., Arda E. Ş. N., Turan K., Tel A. Z., Kırılmış C., İlçim A., TÜBİTAK Project, Bazı Bitkilerin Anti-bakteriyel ve Anti-viral Aktivitelerinin Araştırılması, 2014 - 2018
9. ÖNAY UÇAR E., PEKMEZ M., ARDA E. Ş. N., DALYAN L., MERTOĞLU E., Project Supported by Higher Education Institutions, Protective Effects of Sanicula europaea Extracts on Nuclear DNA Damage, 2016 - 2016

## Awards

1. Mertoğlu Kamalı E., The 20th FEBS Young Scientists' Forum (YSF) Grant, Febs, June 2021

## Scholarships

TÜBİTAK Ar-Ge destek programlarından alınan proje bursu, TÜBİTAK, 2014 - 2017

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

1. **Novel vitamin K3 analogs containing 3-N-substituted aromatic and piperazine rings with selective in vitro anticancer activity against HeLa, U87 MG, and MCF-7 cells**  
Abdassalam A. F. S. H., DENİZ N. G., SAYIL M. Ç., ÖNAY UÇAR E., Mertoglu E., Arda N.

- Medicinal Chemistry Research, vol.32, no.3, pp.475-484, 2023 (SCI-Expanded)
2. **Hsp27, Hsp60, Hsp70, or Hsp90 depletion enhances the antitumor effects of resveratrol via oxidative and ER stress response in human glioblastoma cells**  
Önay Uçar E., Şengelen A., Mertoglu Kamali E.  
BIOCHEMICAL PHARMACOLOGY, vol.208, pp.1-17, 2023 (SCI-Expanded)
  3. **Episodic psychosis, ataxia, motor neuropathy with pyramidal signs (PAMP syndrome) caused by a novel mutation in ADPRHL2 (AHR3)**  
Durmus H., Mertoglu E., Sticht H., Ceylaner S., Kulaksizoglu I. B., Hashemolhosseini S., Ucar E. O., Parman Y.  
NEUROLOGICAL SCIENCES, vol.42, no.9, pp.3871-3878, 2021 (SCI-Expanded)
  4. **Selective and oxidative stress-mediated cell death of MCF-7 cell line induced by terpinolene**  
Kig C., Mertoglu E., Caliskan A., Ağuş H. H., Ucar E. O., Guler V.  
BIOLOGIA, vol.76, no.9, pp.2757-2766, 2021 (SCI-Expanded)
  5. **Identification of natural compounds of Jurinea species by LC-HRMS and GC-FID and their bioactivities**  
Boke Sarikahya N., Sumer Okkali G., Celenk V. U., Mertoglu E., Pekmez M., Arda N., Topcu G., Goren A. C.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.202, 2021 (SCI-Expanded)
  6. **Targeting Heat Shock Protein 27 (HspB1) in Glioblastoma Cells with the Combination of Resveratrol and Temozolomide**  
Mertoglu E., ÖNAY UÇAR E.  
UHOD-ULUSLARARASI HEMATOLOJİ-ONKOLOJİ DERGİSİ, vol.31, no.4, pp.221-229, 2021 (SCI-Expanded)
  7. **Can Hsp Targeted Gene Therapy Be a New Hope for Gliomas?**  
Onay-Ucar E., Sengelen A., Gungor E., Mertoglu E., Pekmez M., Arda N.  
HEAT SHOCK PROTEINS IN NEUROSCIENCE, vol.20, pp.209-230, 2019 (SCI-Expanded)
  8. **Synthesis and antiproliferative evaluation of some 1,4-naphthoquinone derivatives against human cervical cancer cells**  
KAÇMAZ A., DENİZ N. G., AYDINLI S. G., Sayil C., Onay-Ucar E., Mertoglu E., Arda N.  
OPEN CHEMISTRY, vol.17, no.1, 2019 (SCI-Expanded)
  9. **Therapeutic Drugs and Natural Products: The Effect of Suppressing Heat Shock Proteins (Hsp) in Brain Tumors**  
Mertoglu E., Sengelen A., Kiyga E., Onay-Ucar E.  
HEAT SHOCK PROTEINS IN NEUROSCIENCE, vol.20, pp.189-208, 2019 (SCI-Expanded)
  10. **Estimation of the Y-chromosomal short tandem repeat (Y-STR) mutation rates in Turkey**  
Mertoglu E., Filoglu G., Zorlu T., Bulbul O.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKİMYA DERGİSİ, vol.43, no.2, pp.142-150, 2018 (SCI-Expanded)
  11. **Suppression of HSP70 Expression by Quercetin and Its Therapeutic Potential Against Cancer**  
Ucar E. O., Sengelen A., Mertoglu E., Pekmez M., Arda N.  
HSP70 IN HUMAN DISEASES AND DISORDERS, vol.14, pp.361-379, 2018 (SCI-Expanded)
  12. **Polymorphism of 17 Y-chromosome STR markers in Türkiye**  
FİLOĞLU TÜFEK G., ALTUNÇUL H., BÜLBÜL ERCAN Ö., MERTOĞLU E., Zorlu T., RAYİMOĞLU G., CENGİZ S.  
Adli Tıp Dergisi, vol.30, no.3, pp.213-221, 2016 (SCI-Expanded)
  13. **Viscum album L. Extracts Protects HeLa Cells against Nuclear and Mitochondrial DNA Damage**  
Onay-Ucar E., Erol O., Kandemir B., Mertoglu E., Karagoz A., Arda N.  
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE, vol.2012, 2012 (SCI-Expanded)

## Articles Published in Other Journals

1. **Dose-dependent cytotoxic and proliferative effects of Microcystis aeruginosa extract and its fractions on human endothelial cells**  
Kuşoğlu Gültekin S., Mertoglu Kamali E., Yilancıoğlu K., Arda E. Ş. N.  
Aquatic Research, vol.5, no.2, pp.117-128, 2022 (Peer-Reviewed Journal)

## Books & Book Chapters

- 1. Therapeutic Drugs and Natural Products: The Effect of Suppressing Heat Shock Proteins (Hsp) in Brain Tumors**  
MERTOĞLU E., Şengelen A., Kıyga E., ÖNAY UÇAR E.  
in: Heat Shock Proteins in Neuroscience, Heat Shock Proteins Volume 20, Asea A.A.A., Kaur P., Editor, Springer-Verlag , Cham, pp.189-208, 2019
- 2. Can Hsp Targeted Gene Therapy Be a New Hope for Gliomas?**  
ÖNAY UÇAR E., Şengelen A., Güngör E., MERTOĞLU E., PEKMEZ M., ARDA E. Ş. N.  
in: Heat Shock Proteins in Neuroscience, Heat Shock Proteins Volume 20, Asea A.A.A., Kaur P., Editor, Springer-Verlag , Cham, pp.209-230, 2019
- 3. HSP70 in Human Diseases and Disorders**  
Önay Uçar E., Şengelen A., Mertoğlu E., Pekmez M., Arda E. Ş. N.  
in: Suppression of HSP70 Expression by Quercetin and Its Therapeutic Potential Against Cancer, Asea A.A.A., Kaur P., Editor, Springer, London/Berlin , Zug, pp.361-379, 2018

## Refereed Congress / Symposium Publications in Proceedings

- 1. Evaluation of the cytotoxic effects of protein and peptide fractions from *Microcystis aeruginosa***  
KUŞOĞLU GÜLTEKİN S., MERTOĞLU KAMALI E., YILANCIOĞLU K., ÖNAY UÇAR E., ARDA E. Ş. N.  
2nd International Aquatic Biotechnology Symposium, İstanbul, Turkey, 13 October 2021
- 2. Synthesis and Biological Activity of New Vitamin K3 (Menadione) Analogues**  
F. Sh Abdassalam A., Deniz N. G., Sayıl M. Ç., Önay Uçar E., Mertoğlu Kamalı E., Arda E. Ş. N.  
V. International Joint Science Congress of Materials & Polymers (ISCMP), Burdur, Turkey, 29 September - 01 October 2021, pp.87
- 3. Evaluation of anticancer efficacy of temozolomide and resveratrol in human glioma cells**  
MERTOĞLU KAMALI E., ÖNAY UÇAR E.  
The 45th FEBS Congress, Ljubljana, Slovenia, 03 July 2021, vol.2, no.1, pp.8
- 4. Targeting stress proteins in glioblastoma cells with the combination of resveratrol and temozolomide**  
MERTOĞLU E., ÖNAY UÇAR E.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, no.51, pp.114
- 5. Terpinolene induces apoptosis in human breast cancer cell lines**  
Kıg C., Ağuş H. H., Güler V., Çalışkan A., MERTOĞLU E., ÖNAY UÇAR E.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, no.45, pp.109
- 6. Investigation of cytotoxic activity of cerulenin and vitamin E combination in U87 glioma cell line**  
Uzunalioglu N., MERTOĞLU E., PEKMEZ M.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, no.42, pp.106
- 7. Suppression of Hsp60 and Hsp70 increases the anti-tumor effects of resveratrol in human glioblastoma cells**  
Önay Uçar E., Şengelen A., Mertoğlu E., Pekmez M., Arda E. Ş. N.  
7th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 27 - 29 September 2019, no.36, pp.100
- 8. Chromatographic separation of peptides-proteins from *Microcystis aeruginosa***  
Kuşoğlu S., MERTOĞLU E., Yilancioğlu K., ÖNAY UÇAR E., ARDA E. Ş. N.  
5th International Conference on Innovation in Science and Technology (ISTCONF), Barselona, Spain, 7 - 09 December 2018, pp.6

9. **An approach to apoptotic effects of *Viscum album* extracts growing on different host trees in glioma**  
Güngör E., Önay Uçar E., Mertoğlu E.  
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.74
10. **Effects on stress proteins of *Viscum album* extracts in C6 glioma cells**  
Mertoğlu E., Önay Uçar E.  
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.207
11. **Rozmarinik Asit ve SiRNA-Aracılı Susturmanın Glioma Hücrelerinde Hsp27 Anlatımı Üzerine Etkileri**  
Şengelen A., MERTOĞLU E., ÖNAY UÇAR E.  
2. Ulusal Proteomik Kongresi, İstanbul, Turkey, 24 - 25 November 2017, no.16, pp.39
12. ***Viscum album* Extracts Downregulate the Expression Levels of Hsp27 in Brain Tumors**  
MERTOĞLU E., BİLTEKİN S. N., ÖNAY UÇAR E.  
EACR-AACR- SIC Special Conference 2017, Floransa, Italy, 24 - 27 June 2017, no.365, pp.108
13. **Protective effects of *Sanicula europaea* extracts on nuclear DNA damage**  
ÖNAY UÇAR E., PEKMEZ M., MERTOĞLU E., DALYAN L., ARDA E. Ş. N.  
24th Biennial Congress of the European Association for Cancer Research, Manchester, United Kingdom, 9 - 12 July 2016, vol.61, no.1
14. **Determination of Y-STR Mutations Rates in Father-Son Duos**  
FİLOĞLU TÜFEK G., MERTOĞLU E., BÜLBÜL Ö., RAYİMOĞLU G., ALTUNÇUL H.  
World Forensic Festival 2014, Seoul, South Korea, 12 - 18 October 2014, vol.p 06-11, pp.495

## Academic and Administrative Experience

---

2018 - 2022	<b>Araştırma Görevlisi</b> <b>Fakülte Temsilcisi</b>	Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü
-------------	---	---

---

## Memberships / Tasks in Scientific Organizations

Kök Hücre ve Hücreyel Tedaviler Derneği, Member, 2019 - Continues, Turkey  
Moleküler Biyoloji Derneği, Member, 2017 - Continues, Turkey  
EACR (European Association for Cancer Research), Member, 2017 - Continues  
MOKAD (Moleküler Kanser Araştırma Derneği), Member, 2017 - Continues, Turkey  
Türk Biyokimya Derneği, Member, 2016 - Continues, Turkey

## Metrics

Publication: 31  
Citation (WoS): 39  
Citation (Scopus): 39  
H-Index (WoS): 3  
H-Index (Scopus): 2

## Congress and Symposium Activities

45th FEBS Congress, Attendee, Ljubljana, Slovenia, 2021  
20th FEBS Young Scientists' Forum, Attendee, Rijeka, Croatia, 2021

7th International Congress of the Molecular Biology Association of Turkey, Attendee, İstanbul, Turkey, 2019  
3. Kök Hücre ve Hüresel Tedaviler Kongresi (Joint meeting with ISSCA), Attendee, İstanbul, Turkey, 2019  
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), Attendee, İstanbul, Turkey, 2018  
Düzce - Bolu AR-GE Proje Pazarı, Attendee, İstanbul, Turkey, 2018  
Klinik Araştırma ve Veri: Teknoloji, Hız ve Yenilikçiliğin Ötesi, Attendee, İstanbul, Turkey, 2017  
2. Ulusal Proteomik Kongresi, Attendee, İstanbul, Turkey, 2017  
Thermo Fisher Scientific Days, Attendee, İstanbul, Turkey, 2017  
EACR-AACR-SIC 2017 Special Conference, Attendee, Florence, Italy, 2017  
ASM (The American Society for Microbiology) Virtual Workshop on The Art of Science Communication, Attendee, İstanbul, Turkey, 2017  
3. Etik Çalıştayı, Attendee, İstanbul, Turkey, 2017  
ASM (The American Society for Microbiology) Virtual Workshop on Culture of Responsibility, Attendee, İstanbul, Turkey, 2017  
Moleküler Kanser Zirvesi, Attendee, İstanbul, Turkey, 2017  
TÜBİTAK 1000 Projeleri AR-GE Strateji Çalıştayı, Attendee, İstanbul, Turkey, 2016  
Adli Genetik ve Hukuki Boyutu Sempozyumu, Attendee, İstanbul, Turkey, 2016  
Beckman Coulter Cytoflex Tanıtım Toplantısı, Attendee, İstanbul, Turkey, 2015

## Research Areas

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