

## Res. Asst. PhD Ece GÜMÜŞOĞLU ACAR

### Personal Information

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### International Researcher IDs

ScholarID: eujV12AAAAAJ

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Publons / Web Of Science ResearcherID: A-8941-2018

ScopusID: 56075040000

Yoksis Researcher ID: 216995

### Education Information

Undergraduate, Istanbul University, Faculty Of Literature, Department Of Translation Studies, Turkey 2021 - Continues

Doctorate, Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü, Turkey 2016 - 2023

Postgraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü, Turkey 2013 - 2016

Undergraduate, Istanbul University, Faculty Of Science, Moleküler Biyoloji ve Genetik Bölümü, Turkey 2009 - 2013

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Vocational Course, Kök Hücre ve Rejeneratif Tıp Sertifika Programı, Marmara Üniversitesi MÜSEM, 2019

Vocational Training, Erasmus+ Internship Programme, University of Cambridge, 2016

Vocational Course, Advances in Fetal Medicine Course, Fetal Medicine Foundation, 2015

### Dissertations

Doctorate, piRNA Expression Profile in Ovarian Cancer Stem Cells Obtained By Liquid Biopsy, Istanbul University, Institute of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2023

Postgraduate, Over Kanserinde miRNA Analiziyle Moleküler Tanı ve İzleme, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2016

### Research Areas

Life Sciences, Molecular Biology and Genetics, Genetic Disorders, Moleculer Biology of Cancer, Natural Sciences

## Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Faculty of Science, Moleküler Biyoloji ve Genetik Bölümü, 2014 - Continues

## Academic and Administrative Experience

Erasmus Program Department Coordinator, Istanbul University, Faculty Of Science, Moleküler Biyoloji Ve Genetik Bölümü, 2017 - Continues

## Courses

Molecular Biology of the Cell-II, Undergraduate, 2022 - 2023

Reading and Translation in Science-I, Undergraduate, 2023 - 2024

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

- I. **Quiescent Ovarian Cancer Cells Secrete Follistatin to Induce Chemotherapy Resistance in Surrounding Cells in Response to Chemotherapy**  
Cole A. J., Panesso-Gomez S., Shah J. S., Ebai T., Jiang Q., GÜMÜŞOĞLU ACAR E., Bello M. G., Vlad A., Modugno F., Edwards R. P., et al.  
CLINICAL CANCER RESEARCH, vol.29, no.10, pp.1969-1983, 2023 (SCI-Expanded)
- II. **Metabolic pathways of potential miRNA biomarkers derived from liquid biopsy in epithelial ovarian cancer**  
Gumusoglu-Acar E., Gunel T., Hosseini M. K., Dogan B., Tekarslan E. E., Gurdamar B., Cevik N., Sezerman U., Topuz S., Aydinli K.  
ONCOLOGY LETTERS, vol.25, no.4, 2023 (SCI-Expanded)
- III. **Gene pathway analysis of the endometrium at the start of the window of implantation in women with unexplained infertility and unexplained recurrent pregnancy loss: is unexplained recurrent pregnancy loss a subset of unexplained infertility?**  
Keles I. D., Gunel T., Ozgor B. Y., Ulgen E., Gumusoglu-Acar E., Hosseini M. K., Sezerman O. U., Buyru F., Yeh J., Bastu E.  
HUMAN FERTILITY, vol.26, no.5, pp.1129-1141, 2023 (SCI-Expanded)
- IV. **The importance of dysregulated miRNAs on ovarian cysts and epithelial ovarian cancer**  
Gümüsoğlu E., Günel T., Hosseini M. K., Seymen N., Şenol T., Sezerman O. U., Topuz S., Aydınli K.  
European Journal Of Gynaecological Oncology, vol.42, no.1, pp.66-72, 2021 (SCI-Expanded)
- V. **Comparison of Elite Athletes and Essential Hypertension Patients for Angiotensin-Converting Enzyme (ACE) I/D and ACE G2350A Gene Polymorphisms**  
Günel T., Eker C., Gümüsoğlu E., Özdemir Ş., Durmaz E., Koca D., Aydınli K.  
BIOMEDICAL JOURNAL, vol.31, no.1, pp.23829-23836, 2020 (SCI-Expanded)
- VI. **Regulatory effect of miR-195 in the placental dysfunction of preeclampsia.**  
Gunel T., KAMALI N., HOSSEINI M., Gumusoglu E., Benian A., AYDINLI K.  
The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians, vol.33, pp.901-908, 2020 (SCI-Expanded)
- VII. **Regulation of HMGA2 and KRAS genes in epithelial ovarian cancer by miRNA hsa-let-7d-3p**  
Gunel T., Dogan B., Gumusoglu E., Hosseini M. K., Topuz S., Aydinli K.  
JOURNAL OF CANCER RESEARCH AND THERAPEUTICS, vol.15, no.6, pp.1321-1327, 2019 (SCI-Expanded)
- VIII. **Potential Marker Pathways in the Endometrium That May Cause Recurrent Implantation Failure**  
BAŞTU E., Demiral I., Gunel T., Ulgen E., Gumusoglu E., Hosseini M. K., Sezerman U., Buyru F., Yeh J.  
REPRODUCTIVE SCIENCES, vol.26, no.7, pp.879-890, 2019 (SCI-Expanded)

- IX. **Potential biomarker of circulating hsa-miR-1273g-3p level for detection of recurrent epithelial ovarian cancer**  
Guenel T., Gumusoglu E., Dogan B., Ertem F. B., Hosseini M. K., Cevik N., Şenol T., Topuz S., Aydınli K.  
ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.298, no.6, pp.1173-1180, 2018 (SCI-Expanded)
- X. **Potential Marker Pathways in the Endometrium That May Cause Recurrent Implantation Failure**  
GÜNEL T., GÜMÜŞOĞLU E., HOSSEINI M. K., Baştu E.  
REPRODUCTIVE SCIENCES, vol.3, no.5, pp.100-110, 2018 (SCI-Expanded)
- XI. **MicroRNA expression profiling in placenta and maternal plasma in early pregnancy loss**  
Hosseini M. K., Gunel T., Gumusoglu E., Benian A., Aydınli K.  
MOLECULAR MEDICINE REPORTS, vol.17, no.4, pp.4941-4952, 2018 (SCI-Expanded)
- XII. **Expression profiling of maternal plasma and placenta microRNAs in preeclamptic pregnancies by microarray technology**  
Gunel T., Hosseini M. K., Gumusoglu E., Kisakesen H. I., Benian A., Aydınli K.  
PLACENTA, vol.52, pp.77-85, 2017 (SCI-Expanded)
- XIII. **The relation between the P1A1/A2 polymorphism of ITGB3 gene and myocardial infarction in elite athletes Profesyonel sporcularda ITGB3 genindeki P1A1/A2 polimorfizmi ile miyokard İnfarktüsü arasındaki ilişki**  
GÜNEL T., Antal A., Şentürk T., Özbaşak H. Ö., GÜMÜŞOĞLU E., AŞKIN Ö. E., Hosseini M. K., Dölekçap İ., Aydınli K.  
Turkiye Klinikleri Journal of Medical Sciences, vol.37, no.2, pp.68-73, 2017 (SCI-Expanded)
- XIV. **Molecular Diagnosis And Surveillance In Ovarian Cancer By miRNA Analysis**  
Gumusoglu E., Gunel T., Hosseini M. K., Senol T., Topuz S., Aydınli K.  
INTERNATIONAL JOURNAL OF GYNECOLOGICAL CANCER, vol.26, pp.59-60, 2016 (SCI-Expanded)
- XV. **Effect of angiotensin I-converting enzyme and alpha-actinin-3 gene polymorphisms on sport performance**  
Gunel T., Gumusoglu E., Hosseini M. K., Yilmazyildirim E., Dolekcap I., Aydınli K.  
MOLECULAR MEDICINE REPORTS, vol.9, no.4, pp.1422-1426, 2014 (SCI-Expanded)
- XVI. **MicroRNA profiling in miscarriage patients**  
Hosseini M. K., Gunel T., Gumusoglu E., Ermis H., Benian A., Dolekcap I., Aydınli K.  
INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, vol.34, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Analysis of miR-1183 Expression Level and Its role in Preeclampsia Pathogenesis via the Regulation of Its Target Gene CHURC1**  
Altindirek D., Gümüsoğlu Acar E., Benian A., Günel T., Aydınli K.  
Cerrahpaşa Medical Journal, vol.1, no.1, pp.1-2, 2024 (Peer-Reviewed Journal)
- II. **Different perspectives on translational genomics in personalized medicine**  
Doğan B., Göksever Çelik H., Diz Küçükkaya R., Gümüsoğlu Acar E., Günel T.  
JOURNAL OF THE TURKISH-GERMAN GYNECOLOGICAL ASSOCIATION, vol.23, no.4, pp.314-321, 2022 (ESCI)
- III. **Integrated bioinformatics analysis of validated and circulating miRNAs in ovarian cancer**  
DOĞAN B., GÜMÜŞOĞLU ACAR E., Ulgen E., SEZERMAN O. U., GÜNEL T.  
Genomics and Informatics, vol.20, no.2, 2022 (Scopus)
- IV. **Molecular approaches to immunotherapy**  
Gümüsoğlu E., Arslan Ateş E., Shikhaliyeva I., Özer Ö., Günel T.  
Journal of Molecular Biology and Genetics, no.2, pp.69-85, 2017 (Peer-Reviewed Journal)
- V. **The Most Common Cause of Sudden Cardiac Death in Athletes: Hypertrophic Cardiomyopathy-Associated Genes and Mutations**  
Günel T., Gümüsoğlu E., Antal A., Şentürk T., Dölekçap İ., Dinçer S., Bayraktar B., Aydınli K.  
Austin Hypertension, vol.2, no.1, pp.1009-1015, 2017 (Peer-Reviewed Journal)
- VI. **Future Perspective of Preeclampsia by miRNA.**

GÜNEL T., Hosseini M. K., GÜMÜŞOĞLU E., Dölekçap İ., Aydınlı K.

Global Journal of Human Genetics & Gene Therapy, vol.2, no.2, pp.53-67, 2015 (Scopus)

- VII. **Current approaches on non-invasive prenatal diagnosis:Prenatal genomics, transcriptomics, personalized fetal diagnosis Non-invasiv prenatal tanida güncel yaklaşımlar: Prenatal genomik, transkriptomik, bireysel fetal tanı**

GÜNEL T., HOSSEINI M. K., GÜMÜŞOĞLU E., ZEYBEK G., DÖLEKÇAP İ., Kalelioğlu İ., Benian A., ERMIŞ H., AYDINLI K.  
Turk Jinekoloji ve Obstetrik Dernegi Dergisi, vol.11, no.4, pp.233-241, 2014 (ESCI)

## Books & Book Chapters

- I. **Advances in Diagnosis and Management of Ovarian Cancer**

Gümüsoğlu Acar E., Günel T.

Springer Nature, Basel, 2022

- II. **Ovarian Cancer Biomarkers**

GÜMÜŞOĞLU ACAR E., GÜNEL T.

in: Advances in Diagnosis and Management of Ovarian Cancer, Farghaly, Samir A., Editor, Springer, pp.27-42, 2022

- III. **The Role of Circulating Biomarkers in the Early Diagnosis of Ovarian Cancer**

Gümüsoğlu E., Günel T.

in: Ovarian Cancer - From Pathogenesis to Treatment, Devaja O., Papadopoulos A., Editor, Intechopen, Cambridge, pp.157-174, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I. **The importance of dysregulated miRNAs on ovarian cysts and tumors**

Gümüsoğlu E., Günel T., Hosseini M. K., Seymen N., Şenol T., Sezerman U., Topuz S., Aydınli K.

1st International Multidisciplinary Cancer Research Congress, Diyarbakır, Turkey, 18 - 22 September 2019, pp.152-160

- II. **Selection of biomarker from candidate miRNAs for early detection of ovarian cancer**

Doğan B., Günel T., Gümüsoğlu E., Hosseini M. K., Çevik N., Şenol T., Topuz S., Aydınli K.

1 st International Symposium on Graduate Researches in Science, İstanbul, Turkey, 4 - 06 October 2018, vol.26, no.1, pp.194

- III. **Validation of Altered MiRNAs in Ovarian Cancer Tumors”**

Tekaraslan E. E., Günel T., Gümüsoğlu E., Hosseini M. K., Çevik N., Topuz S., Aydınli K.

1st International Symposium on Graduate Research in Science, İstanbul, Turkey, 4 - 06 October 2018, vol.26, no.1, pp.10

- IV. **Molecular Diagnosis and Surveillance in Ovarian Cancer By miRNA Analysis**

GÜMÜŞOĞLU E., GÜNEL T., Hosseini M. K., TOPUZ S., AYDINLI K.

1st International Symposium on Graduate Research In Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, vol.26, pp.59-60

- V. **MicroRNA Expression profiling in Early Pregnancy Loss**

HOSSEINI M. K., GÜNEL T., GÜMÜŞOĞLU E., Benian A., Aydınli K.

Molecular Diagnostic Europe, Lizbon, Portugal, 22 - 25 May 2017, pp.1

- VI. **Molecular Diagnosis of Ovarian Cancer by Circulating Mirnas**

GÜMÜŞOĞLU E., GÜNEL T., Hosseini M. K., Şenol T., TOPUZ S., AYDINLI K.

Molecular Med Tri-Con, California, United States Of America, 19 - 24 February 2017

- VII. **Molecular Diagnosis and Surveillance in Ovarian Cancer by miRNA Analysis**

GÜNEL T., GÜMÜŞOĞLU E., Hosseini M. K., Şenol T., TOPUZ S., AYDINLI K.

State of the Art Conference 2016, Antalya, Turkey, 8 - 10 September 2016, pp.59-60

- VIII. **Maternal plasma and placenta microRNAs expression profiling of preeclamptic pregnancies by**

### **microarray technology**

HOSSEINI M. K., GÜNEL T., GÜMÜŞOĞLU E., Kısakesen H. İ., ERMİŞ B. H., BENİAN A., Aydınlı K.

ISPD 20th International Conference on Prenatal Diagnosis and Therapy, Berlin, Germany, 10 - 13 July 2016, no.102, pp.55

**IX. Combined mRNA Microarray and Proteomic Analysis of Endometrium of Women Implantation Failure (RIF) and Fertile Controls**

BAŞTU E., GÜNEL T., Hosseini M. K., GÜMÜŞOĞLU E.

Human Reproduction, Helsinki, Finland, 3 - 06 July 2016, pp.350

**X. MiRNAs Expression Profiling of Preeclampsic Pregnancies.**

GÜNEL T., HOSSEINI M. K., GÜMÜŞOĞLU E., DÖLEKÇAP İ., Kısakesen H. İ., Ermiş H., Benian A., Aydınlı K.

CoGEN 1st Meeting on Controversies in Preconception, Preimplantation and Prenatal Genetic Diagnosis, Paris, France, 25 - 27 September 2015, pp.14

**XI. MATERNAL PLASMA AND PLACENTA MİRNAS EXPRESSION PROFİLİNG OF PREECLAMPTIC PREGNANCİES BY MİCROARRAY**

GÜNEL T., HOSSEINI M. K., GÜMÜŞOĞLU E., DÖLEKÇAP İ., Kısakesen H. İ., Ermiş H., BENİAN A., Aydınlı K.

EuroSciCon, Londra, United Kingdom, 6 - 08 October 2014, pp.6

## **Supported Projects**

GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Likit Biyopsi ile Elde Edilen Over Kanseri Kök Hücrelerinde piRNA Anlatım Profili, 2019 - 2023

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, MicroRNA expression profiling in placenta and maternal plasma in early pregnancy loss, 2019 - 2020

GÜMÜŞOĞLU E., TOPUZ S., Project Supported by Higher Education Institutions, Potential biomarker of circulating hsa-miR-1273g3p level for detection of recurrent epithelial ovarian cancer, 2019 - 2020

GÜNEL T., DOĞAN B., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Over kanserinde HMGA2 geninin miRNA hsa-let-7d-3p tarafından düzenlenmesi, 2017 - 2019

GÜMÜŞOĞLU E., BENİAN A., AYDINLI K., KISAKESEN H. İ., HOSSEİNİ M. K., Project Supported by Higher Education Institutions, Expression profiling of maternal plasma and placenta microRNAs in preeclamptic pregnancies by microarray technology, 2017 - 2018

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Over Kanserinde miRNA Analizi ile Moleküler Tanı ve İzleme, 2015 - 2017

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Yeni Nesil Dizileme ile Down Sendromunun Anne Kanında Fetal DNA Aracılığı ile Araştırılması, 2015 - 2016

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, ITBG3 Genindeki P1(A1)/(A2) Polimorfizminin Sporculardaki Kalp Krizi Riskine Etkisinin Araştırılması, 2015 - 2016

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Effect of angiotensin I-converting enzyme and  $\beta$ -actinin-3 gene polymorphisms on sport performance, 2014 - 2016

GÜNEL T., GÜMÜŞOĞLU E., Project Supported by Higher Education Institutions, Preeklamptik Hastaların Plasenta ve Maternal Plazmalarındaki miRNAların Micro Array ile Tanımlanması ve İlgili Genlerin Ekspresyon Profillerinin İncelenmesi, 2011 - 2014

## **Memberships / Tasks in Scientific Organizations**

European Association for Cancer Research-EACR, Member, 2018 - Continues

Moleküler Kanser Araştırma Derneği, Member, 2018 - Continues

## **Metrics**

Publication: 37  
Citation (WoS): 217  
Citation (Scopus): 248  
H-Index (WoS): 7  
H-Index (Scopus): 7

## **Scholarships**

2214A Yurtdışı Doktora Sırası Araştırma Bursu, TÜBİTAK, 2020 - 2021

7. Multidisipliner Kanser Araştırma & 1. Temel Onkoloji Kongresi- Genç Araştırmacı Bursu, Special Institutions and Organizations, 2018 - 2018

Molecular Med Tri-Conference 2017-Student Fellowship, Other International Organizations, 2017 - 2017