

## Res. Asst. PhD Ece GÜMÜŞOĞLU ACAR

### Personal Information

**Office Phone:** [+90 212 440 0000](tel:+902124400000) Extension: 15473

**Email:** [ece.gumusoglu@istanbul.edu.tr](mailto:ece.gumusoglu@istanbul.edu.tr)

**Web:** <https://avesis.istanbul.edu.tr/ece.gumusoglu>

### International Researcher IDs

ScholarID: [eujVI2AAAAAJ](https://orcid.org/0000-0003-3807-0330)

ORCID: 0000-0003-3807-0330

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, Molecular Biology of Cancer, Natural Sciences

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 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., Aydinli K.

ARCHIVES OF GYNECOLOGY AND OBSTETRICS, vol.298, no.6, pp.1173-1180, 2018 (SCI-Expanded)

- IX. **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)
- X. **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)
- XI. **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., Aydinli K.  
PLACENTA, vol.52, pp.77-85, 2017 (SCI-Expanded)
- XII. **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 infarktüsü arasındaki ilişki**  
GÜNEL T., Antal A., Şentürk T., Özbaşak H. Ö., GÜMÜŞOĞLU E., AŞKIN Ö. E., Hosseini M. K., Dölekçap İ., Aydınli K.  
Türkiye Klinikleri Journal of Medical Sciences, vol.37, no.2, pp.68-73, 2017 (SCI-Expanded)
- XIII. **Molecular Diagnosis And Surveillance In Ovarian Cancer By miRNA Analysis**  
Gumusoglu E., Gunel T., Hosseini M. K., Senol T., Topuz S., Aydinli K.  
INTERNATIONAL JOURNAL OF GYNECOLOGICAL CANCER, vol.26, pp.59-60, 2016 (SCI-Expanded)
- XIV. **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)
- XV. **MicroRNA profiling in miscarriage patients**  
Hosseini M. K., Gunel T., Gumusoglu E., Ermis H., Benian A., Dolekcap I., Aydinli K.  
INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, vol.34, 2014 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Different perspectives on translational genomics in personalized medicine**  
Doğan B., Göksever Çelik H., Diz Küçükaya R., Gümüşoğlu Acar E., Günel T.  
JOURNAL OF THE TURKISH-GERMAN GYNECOLOGICAL ASSOCIATION, vol.23, no.4, pp.314-321, 2022 (ESCI)
- II. **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)
- III. **Molecular approaches to immunotherapy**  
Gümüşoğlu 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)
- IV. **The Most Common Cause of Sudden Cardiac Death in Athletes: Hypertrophic Cardiomyopathy-Associated Genes and Mutations**  
Günel T., Gümüşoğlu 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)
- V. **Future Perspective of Preeclampsia by miRNA.**  
GÜNEL T., Hosseini M. K., GÜMÜŞOĞLU E., Dölekçap İ., Aydınli K.  
Global Journal of Human Genetics & Gene Therapy, vol.2, no.2, pp.53-67, 2015 (Scopus)
- VI. **Current approaches on non-invasive prenatal diagnosis: Prenatal genomics, transcriptomics, personalized fetal diagnosis Non-invasiv prenatal tanıda 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.  
Türk 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**  
Gümüőğlu Acar E., Günel T.  
Springer Nature, Basel, 2022
- II. **The Role of Circulating Biomarkers in the Early Diagnosis of Ovarian Cancer**  
Gümüőğlu 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**  
Gümüőğlu 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., Gümüőğlu 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., Gümüőğlu 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**  
GÜMÜŐĞLU 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., GÜMÜŐĞLU 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**  
GÜMÜŐĞLU 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., GÜMÜŐĞLU 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 preeclampsic pregnancies by microarray technology**  
HOSSEINI M. K., GÜNEL T., GÜMÜŐĞLU E., Kısakesen H. İ., ERMİŐ B. H., BENİAN A., Aydınli 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**  
BAŐTU E., GÜNEL T., Hosseini M. K., GÜMÜŐĞLU E.  
Human Reproduction, Helsinki, Finland, 3 - 06 July 2016, pp.350
- X. **MiRNAs Expression Profiling of Preeclampsic Pregnancies.**  
GÜNEL T., HOSSEINI M. K., GÜMÜŐĞLU E., DÖLEKÇAP İ., Kısakesen H. İ., Ermiş H., Benian A., Aydınli 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 PREECLAMPTİC PREGNANCİES BY MICROARRAY**

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**

GÜNEL T., 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

GÜNEL T., 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

GÜNEL T., 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 ?-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 Kansere Araştırma Derneği, Member, 2018 - Continues

### **Metrics**

Publication: 34

Citation (WoS): 146

Citation (Scopus): 163

H-Index (WoS): 6

H-Index (Scopus): 6

### **Scholarships**

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

7. Multidisipliner Kansere 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