

## Assoc. Prof. GÜRCAN GÜNAYDIN

### Personal Information

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### Education Information

Doctorate, Hacettepe Üniversitesi, Temel Onkoloji, Turkey 2007 - 2013

Undergraduate, Hacettepe Üniversitesi, Tıp Fakültesi, Turkey 2004 - 2010

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, The effects of tumor microenvironment on t cell responses in a rat chemical mammary carcinoma model, Hacettepe Üniversitesi, Kanser Enstitüsü , Tümör Biyolojisi Ve İmmünoloji (Dr), 2013

### Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Internal Medicine Sciences, Internal Diseases , Oncology, Life Sciences, Molecular Biology and Genetics, Molecular Biology of Cancer, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Hacettepe University, Kanser Enstitüsü , Temel Onkoloji A.B.D., 2020 - Continues

Assistant Professor, Hacettepe University, Kanser Enstitüsü , Temel Onkoloji Anabilim Dalı, 2018 - 2020

Assistant Professor, Hacettepe Üniversitesi, Kanser Enstitüsü , Temel Onkoloji Anabilim Dalı, 2016 - 2018

### Courses

KBİ 601 - Temel İmmünoloji ve Tümör Biyolojisi I, Postgraduate, 2016 - 2017, 2017 - 2018

KBI 721 - Temel İmmünoloji I, Doctorate, 2016 - 2017, 2017 - 2018

TİM 601 - Temel İmmünoloji I, Postgraduate, 2016 - 2017, 2017 - 2018

TİM 602 Temel İmmünoloji II, Postgraduate, 2016 - 2017

KBI 602 Temel İmmünoloji ve Tümör Biyolojisi II, Postgraduate, 2016 - 2017

KBI722 Temel İmmünoloji II, Doctorate, 2016 - 2017

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

- I. **AFFECTS OF COLD ISCHEMIA ON AMPK REGULATION IN A FATTY LIVER MODEL**  
ORUÇ M., Gedik E., Ugur E., Isazada E., Uner M. B., NERGİZ ÜNAL R., GÜNAYDIN G., DOĞRUL A. B.  
TRANSPLANT INTERNATIONAL, vol.34, pp.390-391, 2021 (Journal Indexed in SCI)
- II. **Development of carboplatin loaded bovine serum albumin nanoparticles and evaluation of its effect on an ovarian cancer cell line**  
EŞİM Ö., Gedik M. E., DOĞAN A. L., GÜNAYDIN G., HASÇİÇEK C.  
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.64, 2021 (Journal Indexed in SCI)
- III. **Photodynamic Therapy for the Treatment and Diagnosis of Cancer-A Review of the Current Clinical Status**  
GÜNAYDIN G., Gedik M. E., Ayan S.  
FRONTIERS IN CHEMISTRY, vol.9, 2021 (Journal Indexed in SCI)
- IV. **CAFs Interacting With TAMs in Tumor Microenvironment to Enhance Tumorigenesis and Immune Evasion**  
GÜNAYDIN G.  
FRONTIERS IN ONCOLOGY, vol.11, 2021 (Journal Indexed in SCI)
- V. **Photodynamic Therapy-Current Limitations and Novel Approaches**  
GÜNAYDIN G., Gedik M. E., Ayan S.  
FRONTIERS IN CHEMISTRY, vol.9, 2021 (Journal Indexed in SCI)
- VI. **Proof-of-principle for two-stage photodynamic therapy: hypoxia triggered release of singlet oxygen**  
Ayan S., GÜNAYDIN G., Yesilgul-Mehmetcik N., Gedik M. E., Seven O., Akkaya E. U.  
CHEMICAL COMMUNICATIONS, vol.56, no.94, pp.14793-14796, 2020 (Journal Indexed in SCI)
- VII. **Mitochondria-Targeting Selenophene-Modified BODIPY-Based Photosensitizers for the Treatment of Hypoxic Cancer Cells**  
KARAMAN O., Almammadov T., Gedik M. E., GÜNAYDIN G., Kolemen S., Gunbas G.  
CHEMMEDCHEM, vol.14, no.22, pp.1879-1886, 2019 (Journal Indexed in SCI)
- VIII. **Effects of cellular energy homeostasis modulation through AMPK on regulation of protein translation and response to hypoxia**  
GÜNAYDIN G., Gedik M. E.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.5, pp.611-620, 2019 (Journal Indexed in SCI)
- IX. **The effects of cancer-associated fibroblasts obtained from atypical ductal hyperplasia on anti-tumor immune responses**  
Yavuz B. G., GÜNAYDIN G., KÖSEMEHMETOĞLU K., KARAKOÇ D., Ozgur F., Guc D.  
BREAST JOURNAL, vol.24, no.6, pp.1099-1101, 2018 (Journal Indexed in SCI)
- X. **A novel approach for fractional photodynamic therapy utilizing a photosensitizer with an additional 2-pyridone module**  
GÜNAYDIN G., Turan I. S., Yildiz D., Turksoy A., Akkaya E. U.  
FEBS OPEN BIO, vol.8, pp.179, 2018 (Journal Indexed in SCI)
- XI. **Molecular demultiplexer as a terminator automaton**  
Turan I. S., GÜNAYDIN G., Ayan S., Akkaya E. U.  
NATURE COMMUNICATIONS, vol.9, 2018 (Journal Indexed in SCI)
- XII. **CANCER ASSOCIATED FIBROBLASTS DISPLAY PHENOTYPIC AND FUNCTIONAL FEATURES THAT RESEMBLE CIRCULATING FIBROCYTES WITH CONSTITUTE A NOVE SUBSET OF MDSCs**  
GÜNAYDIN G., Guc D.  
BREAST, vol.36, 2017 (Journal Indexed in SCI)
- XIII. **A Bifunctional Photosensitizer for Enhanced Fractional Photodynamic Therapy: Singlet Oxygen Generation in the Presence and Absence of Light**  
Turan I. S., Yildiz D., Turksoy A., GÜNAYDIN G., Akkaya E. U.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.55, no.8, pp.2875-2878, 2016 (Journal Indexed in SCI)

- XIV. **Granulocytic subset of myeloid derived suppressor cells in rats with mammary carcinoma**  
DOLEN Y., GÜNAYDIN G., ESENDAĞLI G., Guc D.  
CELLULAR IMMUNOLOGY, vol.295, no.1, pp.29-35, 2015 (Journal Indexed in SCI)
- XV. **Cancer associated fibroblasts have phenotypic and functional characteristics similar to the fibrocytes that represent a novel MDSC subset**  
GÜNAYDIN G., KESIKLI S. A., Guc D.  
ONCOIMMUNOLOGY, vol.4, no.9, 2015 (Journal Indexed in SCI)
- XVI. **The Effect of Early-Short Term Basal Insulin Treatment on Adiponectin Levels in Patients with Type 2 Diabetes Mellitus**  
Unluturk U., KESIKLI A. S., GÜNAYDIN G., Ates C., Ademoglu E., Uysal A. R., Emral R.  
ENDOCRINE REVIEWS, vol.35, no.3, 2014 (Journal Indexed in SCI)
- XVII. **Fibroblast-Derived CCL2 Induces Cancer Stem Cells-Letter**  
GÜNAYDIN G., DOLEN Y., KESIKLI S. A.  
CANCER RESEARCH, vol.73, no.2, pp.1031, 2013 (Journal Indexed in SCI)
- XVIII. **The effects of early basal insulin treatment on inflammation and endothelium-related biomarkers in patients with type 2 diabetes**  
Unluturk U., KESIKLI A. S., Ates C., GÜNAYDIN G., Uysal A. R., Emral R.  
DIABETOLOGIA, vol.55, 2012 (Journal Indexed in SCI)
- XIX. **Ductal Carcinoma In Situ and Bilateral Atypical Ductal Hyperplasia in a 23-Year-Old Man with Gynecomastia**  
GÜNAYDIN G., Altundag K.  
AMERICAN SURGEON, vol.77, no.9, pp.1272-1273, 2011 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Tümör İmmünolojisinin Temelleri**  
GÜNAYDIN G., GÜÇ D.  
Turkiye Klinikleri Journal of Medical Oncology Special Topics, vol.10, pp.97-103, 2017 (Other Refereed National Journals)

## Books & Book Chapters

- I. **İntestinal Homeostaz: Mikrobiyota-Patojen Ayrımında Mukozal Sitokin Ağı**  
GÜNAYDIN G.  
in: Mikrobiyota İmmünolojisi, Doç. Dr. Resul KARAKUŞ, Editor, Tur Klin, pp.76-82, 2018
- II. **KANSER İMMÜNOLOJİSİ**  
GÜNAYDIN G., GÜÇ D.  
in: Hematologlar İçin İmmünoloji, TEVFİK AKOĞLU, Editor, GALENOS, pp.149-152, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **New class of red absorbing activatable PDT drugs**  
Almammadov T., ATAKAN G., GÜNAYDIN G., Gunbas G., Kolemen S.  
257th National Meeting of the American-Chemical-Society (ACS), Florida, United States Of America, 31 March - 04 April 2019, vol.257
- II. **Immunosuppressive fibroblasts located around breast tumor tissues are exposed to higher levels of T-HELPER-2-like cytokines**  
GÜNAYDIN G., Guc D.

41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.112

**III. Features of cancer associated fibroblasts that resemble circulating fibrocytes which constitute a unique subset of MDSCs**

GÜNAYDIN G., Guc D.

International Congress of Immunology (ICI), Melbourne, Australia, 21 - 26 August 2016, vol.46, pp.861-862

**IV. Differences of myeloid cell subsets in a chemically induced rat breast carcinoma model**

DOLEN Y., GÜNAYDIN G., ESENDAĞLI G., Guc D.

European Congress of Immunology, Glasgow, United Kingdom, 5 - 08 September 2012, vol.137, pp.606

**V. The impact of early basal insulin treatment on inflammation and endothelial activation/damage related biomarkers in patients with type 2 diabetes mellitus**

KESIKLI S. A. , Unluturk U., GÜNAYDIN G., Ates C., Guc D., Uysal A. R. , Emral R.

European Congress of Immunology, Glasgow, United Kingdom, 5 - 08 September 2012, vol.137, pp.46-47

**VI. The identification of the Cancer Associated Fibroblasts and functional analyses for mechanisms of immune evasion in a rat chemical mammary carcinoma model**

GÜNAYDIN G., DOLEN Y., KESIKLI S. A. , Guc D.

European Congress of Immunology, Glasgow, United Kingdom, 5 - 08 September 2012, vol.137, pp.618-619

## Supported Projects

GÜNAYDIN G., GEDİK M. E. , Project Supported by Higher Education Institutions, HİPOKSİK ORTAM KOŞULUNUN MEME KANSERİ VE HEPATOSELLÜLER KANSER HÜCRE DİZİLERİNDE AMPK AKTİVİTESİNE ETKİSİ, 2019 - 2020

GÜNAYDIN G., DOĞAN A. L. , GEDİK M. E. , Project Supported by Higher Education Institutions, MEME KANSERİ VE HEPATOSELLÜLER KANSER HÜCRE DİZİLERİNDE SERUM STARVASYONU VE HİPOKSİ KOŞULLARININ AMPK AKTİVİTESİNE ETKİSİ, 2017 - 2019

TÜRKER F. A. , ÖZER N., GÜNAYDIN G., ÜNER A., ÇÖTELİ C., YÜCE D., ÇALIŞKAN YILDIRIM E., Project Supported by Higher Education Institutions, Antrasiklin Bazlı Kemoterapi Rejimleri Alan Meme Kanseri Hastalarında Kardiyotoksikite Belirteci Olarak Plazma Mikrorna34a Düzeylerinin Değerlendirilmesi, 2017 - 2018

GÜNAYDIN G., GEDİK M. E. , DOĞAN A. L. , Project Supported by Higher Education Institutions, MEME KANSERİ VE HEPATOSELLÜLER KARSİNOM HÜCRE DİZİLERİNDE AMPK MODÜLASYONUNUN HÜCRE PROLİFERASYONUNA ETKİSİNİN İNCELENMESİ, 2017 - 2018

GÜNAYDIN G., TUBITAK Project, Sıçan Kimyasal Meme Kanseri Modelinde Tümör Mikroçevresinin T Hücre Yanıtları Üzerine Etkisi, 2011 - 2012

## Citations

Total Citations (WOS):167

h-index (WOS):5