

## Assoc. Prof. PELİN BALÇIK ERÇİN

### Personal Information

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### International Researcher IDs

ScholarID: RcsyI8EAAAAJ

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Publons / Web Of Science ResearcherID: AAB-8512-2022

ScopusID: 57201030382

Yoksis Researcher ID: 317843

### Education Information

Doctorate, Gebze Technical University, Institute Of Science, Turkey 2009 - 2018

Postgraduate, Turkey 2004 - 2008

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Biyoloji Bölümü, 2021 - Continues

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

- I. **Chalcone-containing phthalocyanines: Determination of photophysical and photochemical properties and cytotoxicity on breast cancer cell models**  
Kucuk T., Harmandar K., Aydogdu B., Goksel M., BALÇIK ERÇİN P., Ibisoglu H., Atilla D.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, 2025 (SCI-Expanded)
- II. **Arginine mediated photodynamic therapy with silicon(IV) phthalocyanine photosensitizers**  
Balçık Erçin P., Ekineker G., Salık N., Aydoğdu B., Yağcı T., Göksel Şahin M.  
PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, vol.43, pp.103667-103680, 2023 (SCI-Expanded)
- III. **SIX1 Downregulation Suppresses Self-renewal Capacity and THY1 Expression in Hepatocellular Carcinoma and SIX1 Dominate the Survival in Liver Cancer**  
Balçık Erçin P., Aysan A., Salık N., Erciyas E.  
TURKISH JOURNAL OF GASTROENTEROLOGY, vol.34, no.8, pp.881-889, 2023 (SCI-Expanded)
- IV. **In vitro mass production, chemical modification, and cytotoxicity of shikonin derivatives on breast cancer cells**  
Tepe M., Abadan Ş., Sağlam M. F., Süzerer V., Erçin P., Atilla D., Baykal E. E., Şeker M. G., Yağcı T., Çiftçi Y. Ö.  
Industrial Crops and Products, vol.192, 2023 (SCI-Expanded)
- V. **An investigation of bacteriocin nisin anti-cancer effects and FZD7 protein interactions in liver**

## **cancer cells**

BALÇIK ERÇİN P., SEVER B.

CHEMICO-BIOLOGICAL INTERACTIONS, vol.366, 2022 (SCI-Expanded)

- VI. **Bis[N,N '-bis(anilino)glioximato]platinum(II) complex: synthesis, characterization and biological activity**  
Gulumsek O. E., Baykal E. E., Kucukpolat C., Onal E., BALÇIK ERÇİN P., YAĞCI T., AHSEN V., GÜREK A. G.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.1-2, pp.197-210, 2022 (SCI-Expanded)
- VII. **Eckol, a potential inhibitor of aryl hydrocarbon receptor, inhibits proliferation and induces apoptosis in breast cancer cells**  
Balcik-Ercin P.  
BANGLADESH JOURNAL OF PHARMACOLOGY, vol.17, no.3, pp.84-91, 2022 (SCI-Expanded)
- VIII. **Epithelial-to-Mesenchymal Plasticity in Circulating Tumor Cell Lines Sequentially Derived from a Patient with Colorectal Cancer**  
Balcik-Ercin P., Cayrefourcq L., Soundararajan R., Mani S. A., Alix-Panabieres C.  
CANCERS, vol.13, no.21, 2021 (SCI-Expanded)
- IX. **Novel triazole containing zinc(II)phthalocyanine Schiff bases: Determination of photophysical and photochemical properties for photodynamic cancer therapy**  
Harmandar K., Saglam M. F., Sengul I. F., Ekineker G., Balcik-Ercin P., Goksel M., Atilla D.  
INORGANICA CHIMICA ACTA, vol.519, 2021 (SCI-Expanded)
- X. **Improved targeting for photodynamic therapy via a biotin-phthalocyanine conjugate: synthesis, photophysical and photochemical measurements, and in vitro cytotoxicity assay**  
Balcik-Ercin P., Cetin M., Goeksel M., Durmus M.  
NEW JOURNAL OF CHEMISTRY, vol.44, no.8, pp.3392-3401, 2020 (SCI-Expanded)
- XI. **Hepatocellular Carcinoma Cells with Downregulated ZEB2 Become Resistant to Resveratrol by Concomitant Induction of ABCG2 Expression**  
Balcik-Ercin P., Cetin M., Yalim-Camci I., Uygur T., Yagci T.  
MOLECULAR BIOLOGY, vol.54, no.1, pp.75-81, 2020 (SCI-Expanded)
- XII. **3-Methylindole-substituted zinc phthalocyanines for photodynamic cancer therapy**  
Ayari S., Saglam M. F., ŞENKUYTU E., Ercin P., Zorlu Y., Sengul I. F., Jamoussi B., Atilla D.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.11-12, pp.1371-1379, 2019 (SCI-Expanded)
- XIII. **ETS1 is coexpressed with ZEB2 and mediates ZEB2-induced epithelial-mesenchymal transition in human tumors**  
Yalim-Camci I., Balcik-Ercin P., Cetin M., Odabas G., Tokay N., Sayan A. E., Yagci T.  
MOLECULAR CARCINOGENESIS, vol.58, no.6, pp.1068-1081, 2019 (SCI-Expanded)
- XIV. **ROR1 Expression and Its Functional Significance in Hepatocellular Carcinoma Cells**  
Cetin M., Odabas G., Douglas L. R., Duriez P. J., Balcik-Ercin P., Yalim-Camci I., Sayan A. E., Yagci T.  
CELLS, vol.8, no.3, 2019 (SCI-Expanded)
- XV. **Genome-wide analysis of endogenously expressed ZEB2 binding sites reveals inverse correlations between ZEB2 and GalNAc-transferase GALNT3 in human tumors**  
Balcik-Ercin P., Cetin M., Yalim-Camci I., Odabas G., Tokay N., Sayan A. E., Yagci T.  
CELLULAR ONCOLOGY, vol.41, no.4, pp.379-393, 2018 (SCI-Expanded)
- XVI. **Effect of vascular endothelial growth factor on sperm motility and survival**  
Iyibozkurt A. C., Balcik P., Bulgurcuoglu S., Arslan B. K., Attar R., Attar E.  
REPRODUCTIVE BIOMEDICINE ONLINE, vol.19, no.6, pp.784-788, 2009 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Dual high expression of epithelial-mesenchymal transcription factors ZEB1 and ELF3 was inversely correlated with survival of liver cancer patients**  
Yalim-Camci İ., BALÇIK ERÇİN P.

Human Gene, vol.44, 2025 (Scopus)

- II. **SIX1 ve Kanser Kök Hücre Belirteçlerinin Hepatoselluler Karsinomada Kapsamlı Analizi**  
BALÇIK ERÇİN P.  
Celal Bayar Üniversitesi Sağlık Bilimleri Enstitüsü Dergisi, 2020 (Peer-Reviewed Journal)
- III. **Cancer Stem Cells in Hepatocellular Carcinoma**  
Çetin M., Balçık Erçin P., Yağcı T.  
Journal of Gastrointestinal Cancer, vol.48, pp.241-245, 2017 (ESCI)

## Books

- I. **Endometriozis**  
BALÇIK ERÇİN P., ATTAR N. E.  
in: Jinekolojik Semiyoloji, Erkut ATTAR, Editor, istanbul tıp kitapçevleri, pp.150-162, 2019

## Papers Published in Refereed Scientific Meetings

- I. **Evaluation of cell-free miR2110 in hepatocellular carcinoma patients' liquid biopsies**  
BALÇIK ERÇİN P., YALIM CAMCI İ.  
13th International Symposium on Minimal Residual Cancer, Hamburg, Germany, 02 May 2023
- II. **"Kanser İlişkili Fibroblast (KİF) Eldesi ve Fotodinamik Terapi (PDT) Uygulamaları**  
AYDOĞDU B., AYSAN A., BALÇIK ERÇİN P., GÖKSEL ŞAHİN M., YAZIR Y.  
11th International Hippocrates Congress on Medical and Health Sciences, Turkey, 03 March 2023
- III. **Prognostic significance of Mesenchymal-Epithelial Transition Transcription Factors OVOL1, GRHL2, and ELF3 Expression in Liver Cancer**  
BALÇIK ERÇİN P.  
VI. International Health Science and Life Congress, Turkey, 02 March 2023
- IV. **Biology of Metastasis**  
BALÇIK ERÇİN P.  
Dokuz Eylül Üniversitesi ile Azerbaycan Milli İlimler Akademisi Arasındaki İkinci Uluslararası Temel Bilim İkili Çalıştayı, İzmir, Turkey, 18 November 2022, pp.8
- V. **SIP1 and SIX1 are inversely correlated in hepatocellular carcinoma**  
BALÇIK ERÇİN P., YALIM CAMCI İ., ÇETİN M., Odabaş G., YAĞCI T.  
FEBS\_2016, Aydın, Turkey, 03 September 2016, vol.283, pp.367
- VI. **CD133 Targeted Photodynamic Therapy in Breast Cancer Cells**  
BALÇIK ERÇİN P., EKİNEKER G., YANIK H., GÖKSEL ŞAHİN M.  
10th Drug Chemistry Conference, Antalya, Turkey, 10 March 2022
- VII. **Kolorektal Kanser Metastazında OVOL1 ve OVOL2 Mezenkimal-Epitel Geçiş Transkripsiyon Faktörlerinin İfade Profili**  
BALÇIK ERÇİN P.  
Uluslararası Güncel Araştırmalar Sempozyumu 2022, Turkey, 21 February 2022
- VIII. **Determination of Anti-Tumor Activity of Novel Naphthazarin Derivatives**  
ünsal gürsoy s., BALÇIK ERÇİN P., ATİLLA D., SAĞLAM M. F., ÖZDEN ÇİFTÇİ Y., YAĞCI T.  
GEBZE TEKNİK ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ 5. LİSANSÜSTÜ ARAŞTIRMALAR SEMPOZYUMU, Kocaeli, Turkey, 10 June 2021
- IX. **A newly synthesized platinum complex of imidazolidinedione induces apoptosis of breast cancers**  
Erciyas Baykal E., BALÇIK ERÇİN P., Küçükpolat C., GÜREK A. G., AHSEN V., YAĞCI T.  
GEBZE TEKNİK ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ 5. LİSANSÜSTÜ ARAŞTIRMALAR SEMPOZYUMU, Kocaeli, Turkey, 10 June 2021
- X. **Expression pattern of epithelial to mesenchymal transcription factors and cancer stem cell marker**

## **CD133 expression in hepatocellular carcinoma poor differentiated cell lines**

BALÇIK ERÇİN P.

8th international conference on biological and medical science, 21 August 2020

- XI. **A newly synthesized platinum complex of aniline oxime ligand induces apoptosis of hepatocellular carcinoma cells**  
Erciyas Baykal E., BALÇIK ERÇİN P., Eroğlu Ö., Küçükpolat C., GÜREK A. G., AHSEN V., YAĞCI T.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 March 2020
- XII. **Cell Free miR2110 Is Negatively Regulated by ZEB2**  
BALÇIK ERÇİN P., YALIM CAMCI İ., ÇETİN M., Odabaş G., AYSAN A., YAĞCI T.  
11th International Symposium On Minimal Residual Cancer, Montpellier, France, 03 May 2018, vol.35
- XIII. **Expression of Cancer Stem Cell Markers in CRISPR-Cas9 ROR1-Knockout Clones of HEPG2 Hepatocellular Carcinoma Cell Line**  
ÇETİN M., Odabaş G., YALIM CAMCI İ., BALÇIK ERÇİN P., YAĞCI T.  
5th International Congress of the Molecular Biology Association of Turkey, İstanbul, Turkey, 08 October 2017, pp.81
- XIV. **SIP1 regulates ROR1 in hepatocellular carcinoma cells**  
BALÇIK ERÇİN P., ÇETİN M., YALIM CAMCI İ., Odabaş G., YAĞCI T.  
FEBS\_2016, Aydın, Turkey, 03 September 2016
- XV. **ChIP-Seq Study Reveals Multiple Targets of SIP1 in Hepatocellular Carcinoma Cells**  
BALÇIK ERÇİN P., ÇETİN M., YALIM CAMCI İ., Odabaş G., YAĞCI T.  
4th International Congress of the Molecular Biology Association of Turkey (MolBiyKon 2015), Ankara, Turkey, 27 November 2015
- XVI. **The Effect of Histone Deacetylase Modulation by Short Chain Fatty Acid Butyrate on Endometrial and Endometriotic Cell Metabolism and Proliferation**  
BALÇIK ERÇİN P., DEMİROĞLU ZERGEROĞLU A., ATTAR R., İYİBOZKURT A. C., Başara B., bulun s., ATTAR N. E.  
Society for Gynecologic Investigation 56th Annual Scientific Meeting, Glasgow, England, 17 March 2009, vol.16, pp.509
- XVII. **Sodium Butyrate Decreases Proliferation of Stromal Cells Derived from Endometriosis and Ishikawa Cells in Culture**  
DEMİROĞLU ZERGEROĞLU A., BALÇIK ERÇİN P., ATTAR R., karatekelioğlu e., ATTAR N. E., bulun s.  
ASRM\_2007, Washington, Kiribati, 15 October 2007, vol.88, pp.206
- XVIII. **The Role of Vascular Endothelial Growth Factor (VEGF) on Sperm Motility and Survival in Endometriosis**  
ATTAR N. E., BALÇIK ERÇİN P., BULGURCUOĞLU KURAN S., SELÇUK B. Ş., SERDAROĞLU H., HEKİM S. N.  
ASRM 2005, Montreal, Canada, 15 October 2005, vol.84, pp.139
- XIX. **Spermatid Enjeksiyonu Sonrasında Fertilizasyon ve Embriyo Gelişimi.**  
SELÇUK B. Ş., ATTAR N. E., BULGURCUOĞLU KURAN S., SERDAROĞLU H., BALÇIK ERÇİN P., KADIOĞLU A.  
1st International Congress on Reproductive Medicine, İstanbul, Turkey, 22 September 2004

## **Supported Projects**

BALÇIK ERÇİN P., GÖKSEL ŞAHİN M., Project Supported by Higher Education Institutions, Hedefli PDT ajanının serviks ve karaciğer kanseri hücrelerine sitotoksik etkisinin tespiti, 2023 - Continues

Balçık Erçin P., TUBITAK Project, Kronik Miyeloid Lösemi Tedavisinde Etkili Olabilecek Yeni ABL İnhibitörü Oleanolik Asit ve Celastrol Türevleri Üzerine Kapsamlı Mekanistik Araştırmalar, 2023 - 2026

Balçık Erçin P., Göksel Şahin M., TUBITAK Project, İmiquimod Türevi Sübstitüe Zn(II)Pc ile in vitro ve in vivo Fotoimmüno Terapi Uygulamaları, 2022 - 2025

Balçık Erçin P., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Mezenkimal Kök Hücreden Kanser-İlişkili Fibroblast (KİF) Eldesi ve Aksenal Sübstitüe Silisyum Ftalosiyanın Ajani ile Fotodinamik Terapi

Uygulamas, 2022 - 2023

Balçık Erçin P., Doruk T., TUBITAK Project, Pseudomonas aeruginosa'da Pyoverdinin Üretimini Engelleyen Bir İnhibitörün Moleküler Hedefinin Belirlenmesi, Molekülün ve Hedefinin Pseudomonas aeruginosa'nın Virulansı Üzerine Etkilerinin İncelenmesi, 2020 - 2022

Balçık Erçin P., Ahsen V., TUBITAK Project, Yeni İmidazolidindion Türevlerinin ve Platin Komplekslerinin Sentezi ve İnsan Kanseri Hücrelerinde Anti-Tümör Etkilerinin Araştırılması, 2019 - 2022

Balçık Erçin P., Gül Şeker M., TUBITAK Project, Biyoteknolojik Olarak Üretilen Yerel Bitki Kaynaklı Şikonin Ve Kimyasal Türevlerinin Anti-Tümör Etkinliğinin Araştırılması, 2019 - 2022

## **Mobility Activity**

Other, Staff Mobility, Gence Devlet Üniversitesi, Azerbaycan, 2023 - 2023

## **Metrics**

Publication: 39

Citation (WoS): 133

Citation (Scopus): 1

H-Index (WoS): 9

H-Index (Scopus): 1