



## CENK DAĞLIOĞLU, PhD

**Current Position:** **Lecturer**  
**Dec 27<sup>th</sup> 2010 -** Department of Molecular Biology and Genetics  
İzmir Institute of Technology, İzmir-Turkey

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### Education

**2010-2015** **Ph.D. – Biochemistry**  
Ege University, Faculty of Science, Biochemistry Department  
**Thesis Title:** *Preparation of Survivin Targeted Multifunctional Magnetic Nanoparticle Formulations for Therapeutic Use*  
**Awarded:** 22/06/2015

**2008-2010** **M.Sc. – Biochemistry**  
Ege University, Faculty of Science, Biochemistry Department  
University of Greifswald, Institute for Biochemistry  
**Thesis Title:** *Immobilization of Trypsin and Investigation of Potential Use for Protein Fragmentation*  
**Awarded:** 05/07/2010

**2004-2008** **B.Sc – Biochemistry**  
Ege University, Faculty of Science, Biochemistry Department

**2003-2004** **English Prep School**  
Ege University, The School of Foreign Languages

## Published Manuscripts

- 2019 **Rudzińska M., Parodi A., Soond S., Vinarov A., Korolev D., Morozov A., Daglioglu C., Tutar Y. and Zamyatnin A.** *The role of cysteine cathepsins in cancer progression and drug resistance.* International Journal of Molecular Sciences, 20(14): 3602 (IP:4.183)
- 2019 **Daglioglu C. and Kaci F.N.** *Pasif Tümör Hedefli İnorganik İlaç Nanotaşıyıcıların Akciğer Sağlıklı ve Kanser Hücreleri Üzerindeki Uzun Dönemli Etkisi.* Journal of Polytechnic, <https://doi.org/10.2339/politeknik.496354> (TR-Index)
- 2019 **Daglioglu C. and Kaci F.N.** *Cascade therapy with doxorubicin and survivin-targeted tailored nanoparticles: an effective alternative for sensitization of cancer cells to chemotherapy.* International Journal of Pharmaceutics, 561:74–81 (IP:4.213)
- 2019 **Daglioglu C.** *İnsan Kolon Kanseri Hücrelerine Karşı İnorganik Nanopartikül-Temelli İlaç Taşıyıcı Sistemlerin Kullanılması: Partikül Büyüklüğünün Antikanser Aktivitesine Etkisi.* Journal of Polytechnic, <https://doi.org/10.2339/politeknik.496351> (TR-Index)
- 2018 **Daglioglu C.** *Environmentally responsive dual-targeting nanoparticles: improving drug accumulation in cancer cells as a way of preventing anticancer drug efflux.* Journal of Pharmaceutical Sciences, 107:934–941 (IP:3.197)
- 2018 **Daglioglu C.** *İlaç Taşıma Sistemleri olarak Nanopartiküller kullanılarak Pasif ve Aktif Tümör Hedeflemelerinin Karşılaştırmalı İncelenmesi.* Academic Platform Journal of Engineering and Science, 6:01–07 (TR-Index)
- 2017 **Daglioglu C.** *Enhancing tumor cell response to multidrug resistance with pH-sensitive quercetin and doxorubicin conjugated multifunctional nanoparticles.* Colloids and Surfaces B: Biointerfaces, 156:175–185 (IP:3.973)
- 2017 **Daglioglu C.** *Cloning, expression and activity analysis of human cathepsin C in the yeast *Pichia pastoris*.* Turkish Journal of Biology, 41:746–753 (IP:0.662)
- 2017 **Daglioglu C. and Okutucu B.** *Therapeutic effects of AICAR and DOX conjugated multifunctional nanoparticles in sensitization and elimination of cancer cells via survivin targeting.* Pharmaceutical Research, 34:175–184 (IP:3.896)

- 2016 **Daglioglu C. and Okutucu B.** *Synthesis and characterization of AICAR and DOX conjugated multifunctional nanoparticles as a platform for synergistic inhibition of cancer cell growth.* *Bioconjugate Chemistry*, 27:1098–1111 (**IP:4.349**)
- 2012 **Daglioglu C. and Zihnioglu F.** *Covalent immobilization of trypsin on glutaraldehyde activated silica for protein fragmentation.* *Journal of Artificial Cells, Blood Substitutes and Biotechnology*, 40(6):378–384 (**IP:4.462**)

## Memberships to Professional Societies

- 2007-Present** Turkish Chemist Society
- 2016-Present** American Chemical Society
- 2017-Present** International Association of Advanced Materials

## Professional Responsibilities

Currently I review manuscripts and research proposals as an *ad hoc* peer reviewer for the following peer review journals and institution:

ACS Applied Materials & Interfaces, ISSN: 1944-8244 (SCI-indexed)

Journal of Pharmaceutical Sciences, ISSN: 0022-3549 (SCI-indexed)

Journal of Drug Targeting, ISSN: 1061-186X (SCI-indexed)

Current Organic Chemistry, ISSN: 1385-2728 (SCI-indexed)

Journal of Drug Delivery Science and Technology, ISSN: 1773-2247 (SCI-indexed)

Biomedicine & Pharmacotherapy, ISSN: 0753-3322 (SCI-indexed)

International Journal of Nanomedicine, ISSN: 1178-2013 (SCI-indexed)

Current Medicinal Chemistry, ISSN: 0929-8673 (SCI-indexed)

Current Pharmaceutical Design, ISSN: 1381-6128 (SCI-indexed)

Journal of International Medical Research, ISSN: 0300-0605 (SCI-indexed)

Advanced Healthcare Materials, ISSN: 2192-2659 (SCIE-indexed)

Journal of Applied Biomedicine, ISSN: 1214-021X (SCIE-indexed)

Current Molecular Medicine, ISSN: 1566-5240 (SCIE-indexed)

Letters in Drug Design & Discovery, ISSN: 1570-1808 (SCIE-indexed)

Medicinal Chemistry, ISSN: 1573-4064 (SCIE-indexed)

Mini-Reviews in Medicinal Chemistry, ISSN: 1389-5575 (SCIE-indexed)  
Current Pharmaceutical Biotechnology, ISSN: 1389-2010 (SCIE-indexed)  
Anti-Cancer Agents in Medicinal Chemistry, ISSN: 1871-5206 (SCIE-indexed)  
Current Nanoscience, ISSN: 1573-4137 (SCIE-indexed)  
Journal of Biochemical and Molecular Toxicology, ISSN: 1095-6670 (SCIE-indexed)  
Current Topics in Medicinal Chemistry, ISSN: 1568-0266 (SCIE-indexed)  
Protein & Peptide Letters, ISSN: 0929-8665 (SCIE-indexed)  
Current Drug Targets, ISSN: 1389-4501 (SCIE-indexed)  
Current Molecular Pharmacology, ISSN: 1874-4672 (SCIE-indexed)  
Recent Patents on Anti-Cancer Drug Discovery, ISSN: 1574-8928 (SCIE-indexed)  
Pharmaceutical Nanotechnology, ISSN: 2211-7385 (Scopus-indexed)  
Nanotechnology, Science and Applications, ISSN: 1177-8903 (ESCI-indexed)  
Biomedical Reports, ISSN: 2049-9434 (ESCI-indexed)  
Journal of Immunology and Clinical Research, ISSN: 2333-6714  
  
The National Science Centre of Poland, (<http://www.ncn.gov.pl>) (for research proposals)

## Oral Presentations

- 2019**      **Daglioglu C.** *Synthesis and Physicochemical Characterization of Luminomagnetic Nanomaterials for Theranostic Applications.* International Symposium on Advanced Engineering Technologies / Kahramanmaraş, 02-04 May.
- 2019**      **Daglioglu C.** *Next-Generation Smart Nanomaterials for Cancer Therapy.* International Symposium on Advanced Engineering Technologies / Kahramanmaraş, 02-04 May.
- 2019**      **Daglioglu C.** *Interleukins in Production of Human Recombinant Proteins.* 4th International Scientific Research Congress / Yalova, 14-17 February.
- 2018**      **Daglioglu C.** *Terapötik Nanopartiküller: Malzeme Bilimi ve Kanser Arasındaki Arayüz.* Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi (Polimer2018)/Eskişehir, 9-12 Eylül.

- 2018**      **Daglioglu C.** *Designing Nanoparticle-Based Formulations to Overcome Cancer Drug Resistance.* Manisa Celal Bayar University 3rd International Graduate Education Congress/Manisa, 11-13 May.
- 2017**      **Daglioglu C.** *Rekombinant İnsan Katepsin C Enziminin Pichia pastoris Mayası ile Üretiminin Araştırılması.* 6. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi/Adana, 5-7 Ekim.
- 2017**      **Daglioglu C.** *Comparative Study of Different Vitamin-Linked Drug Delivery Systems for Tumor Targeting.* 1. International Advanced Researches and Engineering Congress/Osmaniye, 16-18 November.
- 2017**      **Daglioglu C.** *Fabrication and Characterization of Multifunctional Nanoparticles for pH-sensitive Anticancer Drug Delivery.* 2. International Mediterranean Science and Engineering Congress/Adana, 25-27 October.
- 2017**      **Daglioglu C.** *Enhancing Tumor Cell Response to Multidrug Resistance with pH-Sensitive Quercetin and Doxorubicin Conjugated Multifunctional Nanoparticles.* 13. Nanoscience and Nanotechnology Conference (NanoTR-13)/Antalya, 22-25 October.

## **Regular Laboratory Skills and Techniques**

- Culture and maintenance of cell lines,
- Protein purification and analyses (SDS-PAGE, 2D-PAGE, western blotting, immunoprecipitation, chromatographic separations etc.),
- Enzyme immobilization and assays,
- DNA manipulations (cloning, transformation, recombinant protein expression, extraction and analyses in E.coli and the yeast Pichia Pastoris),
- Design, synthesis, characterization and applications of multifunctional nanomaterials with diagnostic and therapeutic capabilities for cancer therapy.
- miRNA target validation with luciferase reporter assays,
- RNA & DNA isolations and cDNA synthesis,
- PCR applications,
- Florescence Microscopy,
- High-Performance Liquid Chromatography,
- 2D Liquid Chromatography.