Curriculum Vitae



1. Communication details
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2. Personal Details
Name: Cahit Özbilenler
Birth date: 08.02.1995
Birth Place: Lefkoşa, K.Çiftlik- TRNC
Nationality: Cypriot
Marital Status: Bachelor

3. Education details
Ph.D. in Chemistry (4.00/ 4.00), September 2024, Eastern Mediterranean University (EMU), TRNC
Title of PhD Thesis: "Hydrogels of 2-hydroxyethyl methacrylate and N-(2-hydroxyethyl) acrylamide for Biomedical Applications"
(Supervisor: Prof. Dr. Elvan Yılmaz, Co-supervisor: Assoc. Prof. Dr. Ergül Mutlu Altundağ)

M.S. in Chemistry (4.00/ 4.00), July 2019, Eastern Mediterranean University (EMU), TRNC
Title of Master Thesis: "Physicochemical and quantitative cell viability assays of quercetin encapsulated alginate beads"
(Supervisor: Prof. Dr. Mustafa Gazi, Co-supervisor: Assoc. Prof. Dr. Ergül Mutlu Altundağ)

B.S. in Biochemistry (with First Class Honours), July 2017, Queen Mary University of London (QMUL), London-UK
Title of Bachelor Thesis: "Tools to characterize the location of FdC2 protein in higher plants and identify its interaction partners"
(Supervisor: Dr. Guy Hanke)

4. Languages
Turkish: Native
English: Fluent

5. Scholarships
- 2014-2017 TRNC-Ministry of Education- Bursary
- 2017-2024 Eastern Mediterranean University (EMU)- assistantship

6. Experiences
- 2016-2017, Assistant/tutor in PASS (Peer Assisted Study Support) for first and second years university biochemistry/biology/chemistry students in Queen Mary University of London (QMUL), London-UK

- Eastern Mediterranean University (EMU)- Departments of Physics and Chemistry- Chemistry Research and Teaching Assistant (2017- 2024)

- Eastern Mediterranean University (EMU)- Departments of Physics and Chemistry- Part-time Instructor (September 2024- February 2025)
- List of courses assisted:
    - **CHEM 101, CHEM103, CHEM105, CHEM111** General Chemistry
    - **CHEM112** General Chemistry II
    - **KİMY103** Temel Kimya
    - **CHEM247** Analytical Chemistry I
    - **CHEM248** Analytical Chemistry II
    - **CHEM339** Biomaterials

- List of courses taught:
    - **CHEM 101, CHEM111** General Chemistry
    - **CHEM116** Biochemistry
    - **CHEM120** Biochemistry II
    - **CHEM247** Analytical Chemistry I

7. Articles in Refereed Journals
SCI/SCIE-Indexed Articles

1) Altundag, E. M., Gençalp, D., **Özbilenler, C.**, Toprak, K., and Kerküklü, N., 2020. In vitro antioxidant, anti-inflammatory and anti-cancer activities of methanolic extract of Asparagus horridus grows in North Cyprus. Turkish Journal of Biochemistry, 45(4). doi:10.1515/tjb-2019-0325.

2) **Özbilenler, C.**, Altundağ, E. M., and Gazi, M., 2020. Synthesis of quercetin-encapsulated alginate beads with their antioxidant and release kinetic studies. Journal of Macromolecular Science, Part A, 1–10. doi:10.1080/10601325.2020.1817756.

3) Altundag, E. M., Toprak, K., Şanlıtürk, G., Güran, M., **Özbilenler, C.**, Kerküklü, N. R., Yılmaz, A. M., and Yalçın, A. S., 2020. Synergistic Combination of Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid and Natural Flavonoid Curcumin Exhibits Anticancer and Antibacterial Activity. Anti-Cancer Agents in Medicinal Chemistry, 20: 1. doi:10.2174/1871520620666201006141317.

4) Hezarkhani, M., Ustürk, S., **Özbilenler, C.** and Yilmaz, E., 2021. Pullulan/poly (N-vinylimidazole) cryogel: An efficient adsorbent for methyl orange. Journal of Applied Polymer Science, 138(37), p.50958. doi: 10.1002/app.50958.

5) Altundağ, E.M., **Özbilenler, C.**, Usturk, S., Kerküklü, N.R., Afshani, M. and Yilmaz, E., 2021. Metal-Based Curcumin and Quercetin Complexes: Cell Viability, ROS Production and Antioxidant Activity. Journal of Molecular Structure, p.131107. doi: 10.1016/j.molstruc.2021.131107.

6) Becer, E., Altundag, E.M., **Özbilenler, C.**, Vatansever, H.S. and Baser, K.H.C., 2023. Antiproliferative, antioxidant and anti-inflammatory effects of Boswellia Sacra on human

pancreatic cancer cells. Journal of Essential Oil Bearing Plants, 26(4), pp.836-847. doi: https://doi.org/10.1080/0972060X.2023.2257241.

7) Mutlu Altundağ, E., Jannuzzi, A.T., **Özbilenler, C.**, Ustürk, S. and Altınoğlu, G., 2024. Synergistic role of thymoquinone and 5-fluorouracil in U-251MG glioblastoma cell line. Turkish Journal of Biochemistry, 49(1), pp.82-89. doi: 10.1515/tjb-2023-0150.

8) Abakan, İ., **Özbilenler, C.**, Ustürk, S., Kerküklü, N.R., Gulcan, H.O., Güran, M. and Gazi, M., 2024. Preparation of Carboxymethyl Cellulose/Polyvinyl Alcohol Cryogels for the Removal of Methylene Blue Dye from Aqueous Media. Journal of Water Chemistry and Technology, 46(2), pp.157-168. doi: 10.3103/S1063455X24020024.

9) **Özbilenler, C.**, Yilmaz, E., Altundağ, E.M., 2024. Evaluation of poly(2-hydroxyethyl methacrylate) and poly(N-hydroxyethyl acrylamide) cryogels as potential quercetin release matrices. International Journal of Polymer Analysis and Characterization, pp.1-24. doi: 10.1080/1023666X.2024.2349628.

10) Hezarkhani, M., Ustürk, S., **Özbilenler, C.** and Yilmaz, E., 2024. pH-Responsive Pullulan Based Adsorbent Functionalized by Poly (N-vinylimidazole): Synthesis, Characterization and Dye Removal Application. Journal of Water Chemistry and Technology, 46(5), pp.531-542.

11) Altundağ, E.M., Ustürk, S., **Özbilenler, C.** and Yılmaz, A.M., 2025. Chemical characterization, antioxidant potential, and cytotoxicity of Bougainvillea spectabilis Willd. flowers cultivated in Northern Cyprus. Scientific Reports, 15(1), p.38056.

12) Yilmaz, E., Usturk, S., Yılmaz, O. and **Özbilenler, C.**, 2026. Chitosan hydrogels. In Physicochemical Properties of Chitosan-Based Materials in Multiple Phases (pp. 79-110). Elsevier. (Book Chapter).

8. Articles in Refereed Journals (national)

1) Altundag, E.M., Ustürk, S., **Özbilenler, C.**, Sezer, E., Kısaçam, D., Ömerağa, D., Obut, B., and Kardaş, S.N., 2024. Combinational Synergistic Role of Thymoquinone and Celastrol in Colon Carcinoma Cell Line. Biological Diversity and Conservation, 17 (3), pp. 190-197.

9. Professional Conferences (International)

1) Gencalp D., Mutlu Altundag E., **Özbilenler C.**, Kerkuklu N., Toprak K. In vitro antioxidant, and anti-cancer activities of methanolic extract of Asparagus horridus grows in North Cyprus XXVII. Balcan Clinical laboratory federation Meeting (BCLF 2019), Antalya,Turkey. (oral presentation)

2) **Özbilenler C.**, Mutlu Altundag E., Yılmaz E. Evaluation of 2-hydroxyethyl methacrylate and N-(2-hydroxyethyl) acrylamide based cryogels as potential quercetin release matrices. 7. International Eurasian Conference on Biological and Chemical Sciences. (EurasianBioChem 2024), Ankara,Turkey. (oral presentation).

3) Ustürk S., Mutlu Altundag E., **Özbilenler C.**, Kerkuklu N, Yılmaz E. Magnesium and Calcium Complexes of Curcumin and Quercetin: Insights into Cell Viability, Oxidative Stress, and Antioxidant Potential. 8. International Eurasian Conference on Biological and Chemical Sciences. (EurasianBioChem 2025), Ankara,Turkey. (oral presentation).

4) **Özbilenler C.,** Ustürk S., Mutlu Altundag E., Gazi M. Synthesis of Biopolymer-Based Quercetin Delivery Systems Using Alginate Beads: *In Vitro* Antioxidant and Release Kinetic Analyses. 8. International Eurasian Conference on Biological and Chemical Sciences. (EurasianBioChem 2025), Ankara,Turkey. (oral presentation).

10. Professional Conferences (National)

1) **Özbilenler, C.**, Yilmaz, E. and Altundag, E.M. PoliHEAA/ PoliHEMA Kopolimer Jellerin Sentezi, Yığın ve Yüzey Özelliklerinin İncelenmesi. 34. Ulusal Kimya Kongresi, Yalova, Türkiye, Eylül 2022. (oral presentation).

2) Özbilenler, C., and Yilmaz, E. Kriyojenik Ortamda Sentezlenmiş PoliHEAA/PoliHEMA Kopolimerlerin Bovin Serum Albumin Adsorpsiyon Termodinamiğinin İncelenmesi. 34. Ulusal Kimya Kongresi, Yalova, Türkiye, Eylül 2022. (poster presentation).

11.Research Grants

1) Elvan Yılmaz (Project Coordinator), Cahit Özbilenler, "Cryogels of 2-hydroxyethyl methacrylate and N-(2-hydroxethyl) acrylamide-Optimization of Synthesis Conditions and Investigation of Protein Adsorption and Mechanical Properties" Project Budget: 16 000 TL (Dec 2021-Dec 2022) Eastern Mediterranean University BAP-C Type Project.

12.References

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