

Assist. Prof.
Tülay ÖNCÜ ÖNER

Education Information

PhD

2020
Dokuz Eylül University
Medical Biology and Genetics

Master

2014
Dokuz Eylül University
Medical Biology and Genetics

Bachelor's

2011
Ege University
Bioengineering

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Research Topics

- Moleculer Genetic
- Cell Culture

Collaborations

- Ege University / Bioengineering Department
- Ege University / Biology Department
- Manisa Celal Bayar University / Food Engineering

Publications

1. Kaya HB, Dilli Y, **Oncu Oner T**, Ünal A. Exploring genetic diversity and population structure of a large grapevine (*Vitis vinifera* L.) germplasm collection in Türkiye. Frontiers in Plant Science. 2023;14:01430. https://doi.org/10.3389/fpls.2023.1121811
2. Gaik M, Kojic M, Stegeman MR, **Öncü Öner T**, Kościelniak A, Jones A, ... & Glatt S. Functional divergence of the two elongator subcomplexes during neurodevelopment. EMBO Molecular Medicine. 2022;14(7):e15608. https://doi.org/10.15252/emmm.202115608
3. **Öncü Öner T**, Karabey M, Can H, Döşkaya AD, Karakavuk M, Gül A, ... & Gökmen AA. Molecular investigation of *Blastocystis* sp. and its subtypes in cancer patients under chemotherapy in Aegean region, Turkey. Acta Tropica. 2022;233:106577. https://doi.org/10.1016/j.actatropica.2022.106577

You can access the other publication from here.

Project Experience

1. Determination of Antibacterial, Antiviral and Cytotoxic Effects of Different Microalgae Species on Dermal Fibroblast Cells (MCBÜ BAP, 2023-2025, Manager)
2. Extraction of Dietary Fibers and Phenolic Compounds from Pomace and Blackwater, Determination of their Functional Properties by Metagenomics, Bioavailability and Cytotoxicity Analyses and Investigation of their Usability in Food Industry (TÜBİTAK 1001, 2022-2024, Researcher)
3. Evaluation of Olive Pith and Leaf as Nutraceutical or Functional Food (TUBITAK-MHESR International Bilateral Cooperation Project, 2020-2023, Researcher)

You can access the other projects from here.

Analysis and Tests

- ✓ DNA isolation
- ✓ RNA isolation
- ✓ PCR (Polymerase Chain Reaction)
- ✓ Next generation sequencing technologies (whole exome sequencing, metagenomics)
- ✓ Genome editing with CRISPR-cas9
- ✓ Primary cell culture
- ✓ Cytotoxic activity test (MTT)
- ✓ Scratch assay (wound healing test)
- ✓ Apoptosis test
- ✓ Antibacterial activity tests (MIC, disk diffusion)