

ÜMİT UZUN

PERSONAL INFORMATION

Date and Birth Place: 06.09.1991, Trabzon/Turkey
Phone: +90543 526 51 61 (mobile phone)
Address: Karadeniz Technical University, Department of Basic Medical Sciences, Block A, Floor:2 61080 TRABZON/Ortahisar Turkey
Email: umit.uzn@hotmail.com
Orchid Id: 0000-0002-0585-2865
Tubitak ID: TBTK-0031-7746

EDUCATION INFORMATION

2018-continues **Department of Medical Biology**, Karadeniz Technical University, Basic Medical Sciences, Medical Faculty, Turkey, Trabzon
Ph.D. Candidate in Medical Biology (GPA: 3.75/4.00)
Thesis:
Characterization of HaCaT Keratinocyte Cell Line in which *PLAGL2* is Silenced by CRISPR/Cas9 Method

2017 **Department of Chemistry**, Karadeniz Technical University, Faculty of Sciences, Turkey, Trabzon
MS in Biochemistry (GPA: 3.79/4.00)
Thesis:
α-Amylase of *Rhizoctonia Solani* AG4 ZB-34: Production by Solid-State Fermentation, Purification, Immobilization and Analysis of the Usability for the Various Industrial Applications

2014 **Department of Chemistry**, Karadeniz Technical University, Faculty of Sciences, Turkey, Trabzon
B.S. in Chemistry (GPA: 2.80/4.00)
Senior Thesis:
Historical Development of Biochemistry

COURSES TAKEN DURING PhD

2019-2020 Developmental Biology
Immunogenetics
Inherited Metabolic Diseases
Molecular Biology and Genetics of Cancer
Molecular Mechanism in Cell Differentiation
Cell Signaling Systems
Recombinant DNA Technology
Current Topics in Medical Sciences

2018-2019 Protein Methods (English)

Molecular Genetic Methods, I and II
Medical Biology and Genetics, I and II
Basic Laboratory Statistics
Introduction to Biophysics

CERTIFICATES, COURSES AND TRAINING

- 2022 **Vocational Course**, BMG LABTECH-SPECTROSTAR NANO microplate reader use training, Karadeniz Technical University
- 2022 **Vocational Course**, LI-COR CLx Imaging system use and maintenance training, Karadeniz Technical University
- 2021 **Project management**, Proposal preparation training in the field of health sciences, Karadeniz Technical University
- 2019 **Vocational Course**, Leica SP8 advanced confocal microscope training, Karadeniz Technical University
- 2019 **Vocational Course**, Training Program for Certificate of Animal Use in Experimental Studies, Animal Experiments Local Ethics Committee (HADYEK), Karadeniz Technical University
- 2019 **Quality management**, Good Manufacture Practices and Good Laboratory Practices (GMP-GLP) Requirements and Internal Audit, Pharmaceutical and Pharmaceutical Technology Application and Research Center (ILAFAR), Karadeniz Technical University
- 2019 **Quality management**, General requirements for the competence of testing and calibration laboratories (ISO1725:2017) Requirements and Internal Audit, Pharmaceutical and Pharmaceutical Technology Application and Research Center (ILAFAR), Karadeniz Technical University
- 2019 **Quality management**, Medical devices Quality management system (ISO13485:2016) Requirements and Internal Audit, Pharmaceutical and Pharmaceutical Technology Application and Research Center (ILAFAR), Karadeniz Technical University
- 2012 **Personal management**, Effective communication body language and image management, Karadeniz Technical University

PUBLICATIONS

- 2019 **Immobilization and some application of A-amylase purified from Rhizoctonia solani AG-4 strain ZB-34.**
Uzun U & Yildirim Akatin M
Turkish Journal Biochemistry 44 (3), 397-407
(SCI-Expanded)
- 2018 **Purification and characterization of Rhizoctonia solani AG-4 strain ZB-34 α -amylase produced by solid-state fermentation using corn bran.**

Uzun U, Demirci E & Yildirim Akatin M
Turkish Journal Biochemistry 43(3), 257-267,
(SCI-Expanded)

CITATIONS

Total Citations (WOS): 14
h-index (WOS): 2

REFEREED CONGRESS, SYMPOSIUM PUBLICATIONS IN PROCEEDINGS

- 2022 **Effect of TAD mutations on phosphorylation of p53 by DNA-PK**
Merve Ateş*, Münire Sinim, **Ümit Uzun**, Ali Osman Kılıç, Osman Birol Özgümüş, Serap Pektaş
5th International Eurasian Conference On Biological And Chemical Sciences, Ankara, Turkey, 23-25 November, pp- Oral Presentation
- 2021 **The Function of Pleomorphic Adenoma Gene-Like 2 in Human Keratinocytes**
Uzun U. Dinçer T
6th International Hippocrates Congress on Medical and Health Sciences, Elazığ, Turkey, 30 April -01 May, pp-24.
Oral Presentation
- 2017 **Antimicrobial Effects Of Actinomycetes isolated From Caves In The Eastern Black Sea Region Of Turkey**
U. Uzun, E. F. Tufekci, N. Saglam Ertunga, A. Biber, B. Altay, I. Tekkilic, K. Tan, *A. O. Kilic
10th Balkan Congress of Microbiology, Sofia, Bulgaria, November 16th-18th, pp-146.
Poster Presentation
- 2017 **Microbial Diversity of Four Caves In Turkey**
Ureyen U.Z., Biber A., Altay B., Tekkilic I., Tan K., Tufekci E.F., **Uzun U.**, Saglam Ertunga N. ve Kilic A.O.,
10th Balkan Congress of Microbiology, Sofia, Bulgaria, November 16th-18th, pp-375.
Poster Presentation

SUPPORTED AND INVOLVED IN PROJECTS

- 2022-continues **Investigating the effects of Trabzon Canary Grass (Senecio trapezuntinus) and Alli Gelin (Tchihatchewia isatidea) isolated from the species potential of the compounds to be active substances in models molecular mechanism and experimental disease**
F. S. SEZEN, G. RENDA, Y. KAYA YAŞAR, T. DİNÇER, S. ENGİN, S. SEVGİ, E. GÜN, Z. DEMİR ÖKSÜZ, V. SERDAROĞLU, İ. AY, Z. KALHA, **Ü. UZUN**, Y. E. SAMANCI
Karadeniz Technical University Medicine and Pharmaceutical Technology Application and Research Center (KTÜ İLAFAR) and T.C. Ministry of Agriculture and Forestry, General Directorate of

- Nature Conservation and National Parks (DKMP) (joint Research Project), **Researcher**
- 2022-continues **Investigation of the effects of Tchiatchewia isatidea extracts on HaCaT keratinocytes as an in vitro psoriasis model.**
Oksuz Demir Z., Renda G., Sevgi S, Gün E., Dinçer T., **Uzun U.**
The Scientific Research Project Unit of Karadeniz Technical University (Startup Support Project, KTUBAP03), **Researcher**
- 2022-continues **Efficacy of 5 Irrigation Protocols in Killing Bacteria Colonized in Dentinal Tubules:A Confocal Laser Scanning Microscopy Study.**
Taşdemir T., Doğan Ü Ş, Buruk C. K, Dinçer T., **Uzun U.**
The Scientific Research Project Unit of Karadeniz Technical University (KTUBAP06), **Researcher**
- 2021-continues **Characterization of HaCaT Keratinocyte Cell Line in which PLAGL2 is Silenced by CRISPR/Cas9 Method**
Dinçer T., **Uzun U.**
The Scientific Research Project Unit of Karadeniz Technical University (KTUBAP06), **Researcher**
- 2018- continues **Analysis of Pleomorphic adenoma gene-like 2 (PLAGL2) in Epidermal Differentiation**
Dinçer T, Kalay E, Toraman B, Yıldız G
(**Uzun U** asist)
The Scientific and Technological Research Council of Turkey (TUBITAK) Project
- 2016-2018 **Bacteria and Microalgae Isolation from Some Caves in Eastern Black Sea Region and Investigation of the Antimicrobial Production Potential of These Microorganisms**
Saglam Ertunga, **U. Uzun**, E. F. Tufekci, A. Biber, B. Altay, I. Tekkilic, Tabbouche S, A. O. Kilic A.
The Scientific Research Project Unit of Karadeniz Technical University (KTUBAP) Project, **Researcher**
- 2015-2017 **α -Amylase of *Rhizoctonia solani* AG4 ZB-34: Production by Solid-State Fermentation, Purification, Immobilization and Analysis of the Usability for the Various Industrial Applications**
Yildirim Akatin M and **Uzun U**,
The Scientific and Technological Research Council of Turkey (TUBITAK) Project, **Researcher**

ASSISTED COURSES

- 2018- continues **Medical Biology and Genetics**, Teaching Assistant Undergraduate Student laboratory, Department of Medical Biology, Karadeniz Technical University, Trabzon, Turkey
- Prepared lab materials and assisted students with lab work
 - Student Report scoring

CONGRESS AND SYMPOSIUM ACTIVITIES

- 2021 **XVII. International Congress of Medical Biology and Genetics**,
Attendee (Online)
- 2021 **The 6th International Hippocrates Congress of Medicine and
Health Sciences**, Audience (Online), Elazığ, Turkey

PROFESSIONAL MEMBERSHIP

- 2021-Continues Medical Biology and Genetics Association,
Member/ Turkey
- 2022-Continues Turkish Biochemistry Society Member /Turkey

SCHOLARSHIPS

- 2019- Continues The Scientific and Technological Research Council of Turkey
Presidency of Scientist Support Programs (TUBITAK BİDEB)
2211-A, Doctoral Grant
- 2018-Continues The Higher Education Institution (YOK) 100/2000 Doctoral Grant
- 2017 10th Balkan Congress of Microbiology “Young Scientist Grant”,
Sofia, Bulgaria (Congress Grant)

SKILLS AND TECHNICAL ABILITIES

Skills:

- Operating Systems:** Windows
- Office programs:** MS Word, MS Excel, MS PowerPoint
PhotoShop
- Bioinformatic tools:** Human genome browser
Benchling
NCBI
Smart.embl
CCTop
Expasy
Snap Gene
BioGRID
Primer3
- Languages:** Turkish (native)
English (Intermediate Level A2.3)

Technical abilities:

In Master:

Based on Fungi manipulation;

- Growth fungi in Solid-state Fermentation and prepare the extract

Based on Enzyme Technology;

- Enzyme purification and characterization
- Enzyme immobilization and characterization

Based on Bacteria;

- Bacterial culturing and selecting
- Bacterial bioactivity screening and testing
- Bacterial transformation

In Doctoral:

Cell Culture techniques;

- Familiar with the maintenance of adherent cells application of cell culture based techniques

Based on basic cellular functions:

- Differentiation assay
- Apoptosis assay
- Cell cycle assay
- Migration assay
- Wound-Healing assay
- Proliferation assay

DNA based techniques;

- PCR and qPCR method
- *In vitro* cloning
- Sanger DNA sequencing method
- CRISPR/Cas9 gene editing method

Protein based techniques:

- Immunoblot and immunofluorescence methods
- Luciferase reporter assay

FREQUENTLY DEVICES USED

- Confocal microscope (Leica DMI8)
- Flow cytometry BD Acuri C6
- Sanger Sequence Genetic Analyzer
- RT PCR LightCycler® 96 (Roche)
- Luminometer detection multi reader (SpectraMax M5/M5)

PERSONAL INTERESTS/OTHER EXPERIENCES**Interests**

Cinema, music

Hobbies

Swimming, running, playing drum