

## Asst. Prof. GÜLSÜM EBRU ÖZER UYAR

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji (Dr), Turkey 2003 - 2009

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Biyoteknoloji (YI) (Tezli), Turkey 1999 - 2002

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Biology, Turkey 1993 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Cloning and characterization of trehalose-6-phosphate synthase gene from *Rhizopus oryzae*, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji (Dr), 2009

Postgraduate, Effect of different stress conditions on trehalose accumulation and degradation in *Rhizopus oryzae*, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyoteknoloji (YI) (Tezli), 2002

### Research Areas

Life Sciences, Biotechnology, Industrial Biotechnology, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Kocaeli University, Ziraat Fakültesi, Bitki Koruma Bölümü, 2020 - Continues

Assistant Professor, Kocaeli University, Arslanbey Meslek Yüksekokulu, Bitkisel Ve Hayvansal Üretim, 2018 - 2020

Assistant Professor, Kocaeli University, Arslanbey Meslek Yüksekokulu, Gıda İşleme, 2013 - 2018

### Academic and Administrative Experience

Vice Dean, Kocaeli University, Ziraat Fakültesi, Bitki Koruma Bölümü, 2020 - 2021

Assistant Director of Vocational School, Kocaeli University, Arslanbey Meslek Yüksekokulu, 2019 - 2020

Erasmus Coordinator, Kocaeli University, Arslanbey Meslek Yüksekokulu, Gıda İşleme Bölümü, 2014 - 2020

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Kocaeli University, Ziraat Fakültesi, Bitki Koruma Bölümü, 2013 - 2020

## Courses

The Physiology of Horticulture, Associate Degree  
Plants and Humans, Associate Degree  
Food Microbiology, Associate Degree  
Regulation of Gene Expression, Undergraduate  
Preharvest Physiology, Associate Degree  
Phytopathology, Associate Degree  
Food and Nutrition, Associate Degree  
Molecular Genetics and Use in Horticulture, Postgraduate  
Plant Biotechnology Laboratory Techniques, Postgraduate  
Plant Systematics, Associate Degree  
Genetically Modified Organisms, Associate Degree  
General Botany, Associate Degree  
Botany, Associate Degree  
Evolution, Undergraduate  
Genetics II, Undergraduate  
Use of Molecular Genetics in Horticulture, Postgraduate  
Botany, Associate Degree  
Microbiology II Lab., Undergraduate  
Microbiology II, Undergraduate  
Genetics I, Undergraduate  
Genetics Lab., Undergraduate  
Scientific Research Methods and Publication Ethics, Postgraduate  
Project, Associate Degree  
Groundcover Plants and Lawn Areas Establishment , Associate Degree  
Plant Anatomy and Morphology, Undergraduate  
Genetically Modified Organisms, Associate Degree  
Plant Anatomy and Morphology Lab., Undergraduate  
Groundcover Plants and Lawn Areas Establishment , Associate Degree  
Food Chemistry, Associate Degree  
Food Chemistry, Associate Degree

## Advising Theses

Özer Uyar G. E. , The effect of postharvest storage temperature on oxalic and malic acid levels in purslane (*Portulaca oleracea* L.) plant, Postgraduate, O.KANCA(Student), 2020  
Özer Uyar G. E. , Determination of the effect of microalgae culture and hydroponic culture on the plant growth, Postgraduate, N.MISMIL(Student), 2019

## Designed Lessons

Özer Uyar G. E. , Dark Reactions in Photosynthesis, Doctorate, 2019 - 2020  
Özer Uyar G. E. , Developments in the Use of Transgenic Plants in Agriculture, Doctorate, 2019 - 2020  
Özer Uyar G. E. , Basics of Plant Respiration, Doctorate, 2019 - 2020  
Özer Uyar G. E. , Kasım R., Molecular Genetics and Use in Horticulture, Postgraduate, 2015 - 2016

Özer Uyar G. E. , Kasım R., Kasım M. U. , Use of Molecular Genetics in Horticulture, Postgraduate, 2015 - 2016  
Özer Uyar G. E. , Kasım R., Kasım M. U. , Plant Biotechnology Laboratory Techniques, Postgraduate, 2015 - 2016  
Özer Uyar G. E. , Genetically Modified Organisms, Associate Degree, 2014 - 2015

## Research Infrastructure Information

Kasım M. U. , Kasım R., Özer Uyar G. E. , Hasat Sonrası Fizyoloji Laboratuvar, January 2006

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Effects of ethanol and ultraviolet-c treatments on inactivation of Rhizopus oryzae spores which cause postharvest rot**  
Özer Uyar G. E. , Uyar B.  
FOOD SCIENCE AND TECHNOLOGY, vol.39, pp.691-695, 2019 (Journal Indexed in SCI)
- II. **Cloning and expression of trehalose-6-phosphate synthase 1 from Rhizopus oryzae**  
Uyar E. O. , Yucel M., Hamamcı H.  
JOURNAL OF BASIC MICROBIOLOGY, vol.56, pp.459-468, 2016 (Journal Indexed in SCI)
- III. **Effect of different stresses on trehalose levels in Rhizopus oryzae**  
Uyar E. O. , HAMAMCI H., Tuerkel S.  
JOURNAL OF BASIC MICROBIOLOGY, vol.50, no.4, pp.368-372, 2010 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Growth and Lipid Production of Two Microalgae Strains in Pilot Scale (35 L) Panel Photobioreactors**  
Uyar B., Kutluk T., Özer Uyar G. E. , Kapucu N.  
Journal of Advanced Physics, vol.7, pp.1-3, 2018 (Refereed Journals of Other Institutions)
- II. **EFFECT OF NaCl AND KCl SALTS ON GROWTH AND LACTIC ACID PRODUCTION OF Rhizopus Oryzae**  
Özer Uyar G. E. , Uyar B.  
GIDA / THE JOURNAL OF FOOD, vol.41, no.5, pp.299-304, 2016 (Refereed Journals of Other Institutions)
- III. **POSTHARVEST ASCORBIC ACID TREATMENTS ON COLOR AND SUGAR CHANGES ON FRESH CUT CARROT**  
KASIM R., KASIM M. U. , ÖZER UYAR G. E.  
International Journal of Research In Agriculture and Food Sciences, pp.1-8, 2015 (Refereed Journals of Other Institutions)
- IV. **Postharvest ascorbic acid treatments on color and sugar changes on fresh cut carrots**  
KASIM R., KASIM M. U. , ÖZER UYAR G. E.  
International Journal of Research In Agriculture and Food Sciences, vol.2, pp.1-8, 2015 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Taze Kesilmiş Ürünlerde Biyoteknolojik Yaklaşımlar**  
Özer Uyar G. E. , Uyar B.  
in: Taze Kesilmiş Ürün Teknolojisi, Kasım R., Kasım M.U., Şanlıbaba P., Editor, Palme Yayın Dağıtım, Ankara, pp.109-143, 2021

## Refereed Congress / Symposium Publications in Proceedings

- I. **HYDROPONIC SYSTEMS FOR PHYTOREMEDIATION**  
Özer Uyar G. E.  
2. INTERNATIONAL ICONTECH SYMPOSIUM On Innovative Surveys in Positive Sciences, Budapest, Hungary, 23 - 26 September 2020, pp.372
- II. **Mikroalg kültürü ile hidroponik kültürün birleştirilmesinin bitki gelişimine etkisinin belirlenmesi**  
MISMIL N., ÖZER UYAR G. E.  
Uluslararası Katılımlı 20. Ulusal Biyoteknoloji Kongresi, Turkey, 10 - 12 October 2019
- III. **Bazı kayısı çeşitlerine kurutma öncesi Ultraviyole-C uygulamasının kurutma süresince mikroorganizma gelişimi üzerine etkisi**  
Koçkan C., Özer Uyar G. E.  
Uluslararası Katılımlı 20. Ulusal Biyoteknoloji Kongresi, Turkey, 10 - 12 October 2019
- IV. **Rhizopus oryzae ile patates kabuğu atıklarından etanol üretimi**  
BOZKURT D., ÖZER UYAR G. E.  
Uluslararası Katılımlı 20. Ulusal Biyoteknoloji Kongresi, Turkey, 10 - 12 October 2019
- V. **What might be the reason behind evolution of C4 photosynthesis?**  
ÖZER UYAR G. E. , KANCA O.  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- VI. **Growth and lipid production of two microalgae strains in pilot scale (35 L) panel photobioreactors**  
UYAR B., MISMIL N., KUTLUK T., ÖZER UYAR G. E. , KAPUCU N.  
4th International Conference on Computational And Experimental Science And Engineering (ICCESEN-2017), 4 - 08 September 2017
- VII. **Rhizopus oryzae nin morötesi radyasyonu ile morfolojisinin değiştirilmesi**  
ÖZER UYAR G. E. , UYAR B.  
18. Ulusal Biyoteknoloji Kongresi, Turkey, 18 - 19 December 2015
- VIII. **Effect of NaCl and KCl on the growth morphology and lactic acid production of Rhizopus oryzae**  
ÖZER UYAR G. E. , UYAR B.  
BEC 2015, 19 - 21 November 2015
- IX. **Rhizopus oryzae nın Trehaloz 6 fosfat sentaz Geninin Kopyalanması ve Karakterizasyonu**  
ÖZER UYAR G. E. , YÜCEL A. M. , HAMAMCI H.  
16. Biyoteknoloji Kongresi, Turkey, 13 - 16 December 2009
- X. **Rhizopus oryzae da Farklı Stres Koşullarının Trehaloz Birikimi ve Yıkımına Etkisi**  
ÖZER UYAR G. E. , HAMAMCI H., TÜRKEL S.  
13. Biyoteknoloji Kongresi, Turkey, 25 - 29 August 2003

## Supported Projects

Özer Uyar G. E. , Mismil N., Project Supported by Higher Education Institutions, Determination of the effect of integration microalgae culture and hydroponic culture on growth of Mentha piperita, 2018 - 2019

Uyar B., Kapucu N., Özer Uyar G. E. , Kutluk T., Project Supported by Higher Education Institutions, Improving the oil production process from microalgae, 2016 - 2017

Özer Uyar G. E. , Project Supported by Higher Education Institutions, Amylase production from potato peel waste by Rhizopus oryzae, 2016 - 2017

Özer Uyar G. E. , Uyar B., Project Supported by Higher Education Institutions, Changing the morphology of Rhizopus oryzae via random mutation, 2014 - 2016

## **Scientific Refereeing**

International Journal of Biology, Other Indexed Journal, September 2019  
Asian Journal of applied Chemistry Research, Other Indexed Journal, September 2019  
Greener Trends in Plant Pathology and Entomology (GTPPE), Other Indexed Journal, August 2019  
International Journal of Biology, Other Indexed Journal, June 2019  
International Journal of Biology, Other Indexed Journal, April 2019  
International Journal of Biology, Other Indexed Journal, March 2019  
International Journal of Biology, Other Indexed Journal, January 2019  
International Journal of Biology, Other Indexed Journal, August 2018  
International Journal of Biology, Other Indexed Journal, April 2018  
PEERJ, SCI Journal, April 2018  
International Journal of Biology, Other Indexed Journal, April 2018  
International Journal of Biology, Other Indexed Journal, March 2018  
Food Science and Technology, Journal Indexed in ESCI, April 2017  
food science and technology, Journal Indexed in ESCI, June 2016  
FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in ESCI, September 2015  
Turkish Journal Of Biology, SCI Journal, October 2012

## **Tasks In Event Organizations**

Özer Uyar G. E. , 16th National Biotechnology Congress, Scientific Congress, Antalya, Turkey, Aralık 2009  
Özer Uyar G. E. , 15th National Biotechnology Congress, Scientific Congress, Antalya, Turkey, Ekim 2007  
Özer Uyar G. E. , 14th National Biotechnology Congress, Scientific Congress, Eskişehir, Turkey, Eylül 2005

## **Edit Congress and Symposium Activities**

20th Biotechnology Congress, Working Group, Ankara, Turkey, 2019  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018) , Working Group, Ankara, Turkey, 2018  
18th Biotechnology Congress, Working Group, Konya, Turkey, 2015  
VIIth International Bioengineering Congress, Working Group, İzmir, Turkey, 2015  
16th Biotechnology Congress, Working Group, Antalya, Turkey, 2009  
15th Biotechnology Congress, Working Group, Antalya, Turkey, 2007  
14th Biotechnology Congress, Working Group, Eskişehir, Turkey, 2005  
13th Biotechnology Congress, Working Group, Çanakkale, Turkey, 2003

## **Citations**

Total Citations (WOS):14  
h-index (WOS):3