

## Prof. REMZİYE YILMAZ

### Personal Information

**Office Phone:** [+90 312 297 7106](tel:+903122977106)

**Fax Phone:** [+90 312 299 2123](tel:+903122992123)

**Email:** [remziye@hacettepe.edu.tr](mailto:remziye@hacettepe.edu.tr)

**Web:** <http://www.foodomicslab.hacettepe.edu.tr/en>

**Address:** Hacettepe Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği Bölümü Beytepe Kampusu 06800 Ankara

### International Researcher IDs

ORCID: 0000-0003-2041-1205

ScopusID: 7004114724

Yoksis Researcher ID: 219909

### Biography

Dr. Remziye Yılmaz received her Ph.D. from the Hacettepe University, Food Engineering Department in 2002 where her research focus was molecular identification and characterization of Lactic Acid Bacteria. Between 2002-2005, she founded and worked at the first molecular biology laboratory on the detection and quantification genetically modified crops at the Ankara Food Control Laboratory, Ministry of Agriculture. In 2005, she received a postdoctoral position from Middle East Technical University (METU), Molecular Biology and Biotechnology R&D Center. From 2005-2015, she conducted research as a head of the Genome Analysis Laboratory at the METU (Ankara), where her research contributed to the understanding of the functional genomics and genetically modified organisms including microorganisms. In 2006, short term, she moved to Wageningen University & Research, where she was a [Prof. Dr. Leo De Graff](#) Postdoctoral Fellow in the laboratory of Fungal Genomics. During this time, she expanded her research interests to focus on the functional genomics of plants such as wheat and barley, using the microarray analysis model.

In 2015, she accepted a position at Hacettepe University as an Associate Professor. At the same year she awarded with Borlaug Fellowship at the Michigan State University (MSU), Food Toxicology and Molecular Biology Department. Her mentor was [Robert Hollingworth](#) and David Mota-Sanchez from MSU. Since 2015, her laboratory at the Hacettepe University has worked to identify food microorganisms from Anatolia via molecular microbiological techniques; to develop new methods, proficiency tests and reference materials to analyses GMOs; and to use probiotics for functional foods. In parallel to these studies, research in her laboratory has also expanded into the area of DNA-nanosensor technology for the detection of microorganisms and GMOs. Since 2017, Dr. Yılmaz also serves for International Food Biosafety and Biotechnology R&E Center (<http://foodbiotech.hacettepe.edu.tr/en>). In March 2021, Dr. Yılmaz was promoted to the rank of Professor.

Thanks to high-throughput foodomics approach, Dr. Yılmaz's laboratory (<http://www.foodomicslab.hacettepe.edu.tr/en/>) and research area are now facing the possibility for the exploitation of food science and human health with new projects such as "Development of a New Approach for Determining the Change in Genetically Modified Maize Flour Profile using Transcriptomics, Metabolomics and Lipidomics", "Shotgun Metagenomic Analysis of Microbial Composition of Tarhana and White Cheese" and "Comparative Transcriptome Analysis of Local Wheat Varieties (*Triticum* spp.) and Effects of Zinc Treatment".

<https://scholar.google.com/tr/citations?user=hKj1iWYAAAAJ&hl=tr>

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri , Gıda Mühendisliği , Turkey 1996 - 2002

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği A.B.D., Turkey 1992 - 1996

Undergraduate, Ankara University, Faculty Of Agriculture, Turkey 1985 - 1990

## Dissertations

Doctorate, Çiğ ve Pastörize Sütlerden Yerel Yoğurt Starterter Suşlarının İzolasyonu, Tanımlanması ve Bunların Karakterizasyonu, Hacettepe Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2002

Postgraduate, Peynir suyu laktöz permeatının mikrobiyolojik besiyerlerinde kullanılabilirliği, Hacettepe Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 1996

## Research Areas

Food Engineering, Life Sciences, Biochemistry, Food Biochemistry, Bioinformatics, Biotechnology, Plant Biotechnology, Microbial Biotechnology, Microbiology, Molecular Biology and Genetics

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2021 - Continues

## Courses

Genel Mikrobiyoloji, Undergraduate, 2017 - 2018

## Advising Theses

YILMAZ R., Using plasmid reference materials for genetically modified organisms analysis and their verification with inter-laboratory comparison test, Postgraduate, T.CEREN(Student), 2016

YILMAZ R., Comparative statistical microarray analysis of yeast data under heat shock stress, Postgraduate, D.VAROL(Student), 2014

YILMAZ R., Recombinant transglutaminase production by metabolically engineered Pichia pastoris, Postgraduate, B.GÜNDÜZ(Student), 2012

YILMAZ R., IN-VITRO CHARACTERIZATION OF A NOVEL CDTE-CDS/2MPA-DMSA QUANTUM DOT, Postgraduate, E.SAYIN(Student), 2011

YILMAZ R., Development of analysis methods for cry1ac and sam-k gene lines in tomato using PCR and real-time PCR, Postgraduate, S.UYGUN(Student), 2010

YILMAZ R., Development of PCR methods for detection and quantification of genetically modified maize, Doctorate, H.JABBARI FARHOUD(Student), 2010

YILMAZ R., Effects of pH on human growth hormone production by Pichia pastoris considering the expression levels of regulatory genes, Postgraduate, E.BAYRAKTAR(Student), 2009

YILMAZ R., Detection of genetically modified potatoes by the polymerase chain reaction (PCR), Postgraduate, A.MUWONGE(Student), 2005

YILMAZ R., Detection of genetically modified maize via polymerase chain reaction, Postgraduate, G.AYDIN(Student), 2004

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **RT-qPCR based quantitative analysis of ARO and ADH genes in *Saccharomyces cerevisiae* and *Metschnikowia pulcherrima* strains growth white grape juice**  
Muyanlı E. B., YILMAZ R.  
Molecular Biology Reports, vol.51, no.1, 2024 (SCI-Expanded)

## Books & Book Chapters

- I. **Novel Foods and Crispr-Cas Gene/Genome Editing Technology**  
YILMAZ R., Özcan A., Çakır S., Muyanlı E. B., Taşkın Y., Uğuz A. B., Hançerlioğulları B. Z.  
in: Food Science Technology and Engineering, Ertan Anlı, Pınar Şanlıbaba, Editor, Nobel, Ankara, pp.217-263, 2022
- II. **Genetik modifiye organizmalar: Gıda, yem, izlenebilirlik**  
YILMAZ R., ÜNAL T. T.  
in: Gıda Biyoteknolojisi, Zümrüt Begüm Ögel, Editor, Türkiye Klinikleri Gıda Bilimleri, Ankara, pp.17-21, 2021
- III. **Technical Guidelines for Risk Assessment of Genetically Engineering Crops and Derived Food and Feed (İngilizce)**  
YILMAZ R., BAYRAÇ C.  
Birleşmiş Milletler Çevre Programı, TAGEM, Ankara, 2018
- IV. **Gıda Biyoteknolojisi**  
YILMAZ R., Lenz D.  
International Food Information Council Foundation, Washington, 2017
- V. **DNA Barcoding for MPR Fruits and Vegetables**  
YILMAZ R.  
in: Minimally Processed Refrigerated Fruits and Vegetables, Fatih Yildiz, Robert C. Wiley, Editor, Springer, New York, pp.639-649, 2017
- VI. **DNA : Yaşam Molekülü**  
YILMAZ R., AKSOY E.  
in: Biyoloji Öz, Eyidoğan, Füsün, Editor, Nobel Akademik Yayıncılık, Ankara, pp.116-153, 2015

## Supported Projects

- YILMAZ R., TÜBİTAK Project, Türkiye de Yayılış Gösteren Geraniaceae Familyasının Sistemik Revizyonu, 2013 - Continues
- YILMAZ R., BALOĞLU M. C., CERİT Z. G., ATA H., Project Supported by Higher Education Institutions, Beyaz Peynir ve Süt İşleme Tesisinden İzole Edilen Mikrobiotanın Karakterizasyonu Yerli Starter Kültür Eldesi ve Prototip Ürün Üretimi, 2019 - 2022
- YILMAZ R., Project Supported by Higher Education Institutions, Genetik Modifiye Gıda ve Yem ürünlerinde Risk Analizinin Omik Teknolojiler Kullanılarak Gerçekleştirilmesi, 2019 - 2019
- YILMAZ R., LAWRIE S. C., GRUMET R., Project Supported by Higher Education Institutions, Gıda Biyoteknolojisi ve Biyogüvenlik Çalıştay, 2017 - 2018
- YILMAZ R., KURBAN M., Project Supported by Higher Education Institutions, *Saccharomyces cerevisiae* DNA barkodunun Elde Edilmesi, 2017 - 2018
- YILMAZ R., UYGUN Ü., SATIR C. C., SAYGILI N., Project Supported by Higher Education Institutions, YEREL MEYVELERDEN BİYOAKTİF İNGREDİYEN ÜRETİMİ, 2017 - 2017
- YILMAZ R., Other International Funding Programs, Türkiye Ulusal Biyogüvenlik Çerçevesi Uygulama Projesi, 2014 - 2017
- YILMAZ R., Project Supported by Higher Education Institutions, Michigan State Üniversitesi için 2015 Norman E. Borlaug Uluslararası Gıda ve Tarım Bilimi ve Teknolojisi Burs Programı Odülü, 2015 - 2016

## Metrics

Publication: 17

Citation (WoS): 7

Citation (Scopus): 16

H-Index (WoS): 2

H-Index (Scopus): 3