

# Prof. ZEKİYE YEŞİM ÖZBAŞ

## Personal Information

Office Phone: [+90 312 297 7112](tel:+903122977112)

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

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

Web: <https://avesis.hacettepe.edu.tr/yesim>

## International Researcher IDs

ORCID: 0000-0002-1189-800X

Yoksis Researcher ID: 12087

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği Anabilimdalı, Turkey 1987 - 1991

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği Anabilimdalı, Turkey 1984 - 1987

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, Turkey 1979 - 1984

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Food Engineering, Food Science, Food Microbiology, Engineering and Technology

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2003 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 1996 - 2003

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 1993 - 1996

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 1985 - 1993

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

- Effects of different carbon and nitrogen sources on liamocin production kinetics of *Aureobasidium pullulans* NBRC 100716 strain**  
Pehlivan A. D., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
ARCHIVES OF MICROBIOLOGY, no.8, 2024 (SCI-Expanded)
- Experimental modeling and optimization of pullulan production by *Aureobasidium pullulans* AZ-6**  
Mujdeci G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
Polymer Bulletin, 2024 (SCI-Expanded)
- Optimization of hazelnut husk medium for pullulan production by a domestic *A. pullulans* strain**  
AKDENİZ OKTAY B., BOZDEMİR M. T., ÖZBAŞ Z. Y.

PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.53, no.3, pp.317-330, 2023 (SCI-Expanded)

- IV. **Evaluation of Some Agro-Industrial Wastes as Fermentation Medium for Pullulan Production by *Aureobasidium pullulans* AZ-6**  
AKDENİZ OKTAY B., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
CURRENT MICROBIOLOGY, vol.79, no.3, 2022 (SCI-Expanded)
- V. **Technological and enzymatic characterization of the yeasts isolated from natural fermentation media of Gemlik olives**  
Mujdeci G. N., Ozbas Z. Y.  
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- VI. **Yeast strains with technological and probiotic traits isolated from Mihalic cheese**  
Karasu-Yalcin S., Senses-Ergul S., Ozbas Z. Y.  
INTERNATIONAL FOOD RESEARCH JOURNAL, vol.26, no.4, pp.1359-1370, 2019 (SCI-Expanded)
- VII. **Yeast Identification During Fermentation of Turkish Gemlik Olives**  
Mujdeci G., Arevalo-Villena M., ÖZBAŞ Z. Y., Perez A. B.  
JOURNAL OF FOOD SCIENCE, vol.83, no.5, pp.1321-1325, 2018 (SCI-Expanded)
- VIII. **CHARACTERIZATION OF SOME INDIGENOUS SACCHAROMYCES CEREVISIAE ISOLATES OBTAINED DURING VINIFICATION OF 'KALECIK KARASI' AND 'EMIR' GRAPES GROWN IN CENTRAL ANATOLIA**  
Senses-Ergul S., ÖZBAŞ Z. Y.  
CIENCIA E TECNICA VITIVINICOLA, vol.31, no.2, pp.51-62, 2016 (SCI-Expanded)
- IX. **Molecular Identification of the Yeast Strains Associated with Spontaneous Wine Fermentation of Kalecik Karasi and Emir Grapes**  
Karasu-Yalcin S., Senses-Ergul S., ÖZBAŞ Z. Y.  
JOURNAL OF PURE AND APPLIED MICROBIOLOGY, vol.7, no.4, pp.2653-2672, 2013 (SCI-Expanded)
- X. **Molecular identification of some yeast strains isolated from various sugary foods**  
Senses-Ergul S., KARASU YALÇIN S., ÖZBAŞ Z. Y.  
ANNALS OF MICROBIOLOGY, vol.62, no.4, pp.1501-1516, 2012 (SCI-Expanded)
- XI. **Effects of initial medium pH and temperature on growth and citric acid production kinetics of a novel domestic *Yarrowia lipolytica* strain**  
KARASU YALÇIN S., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XII. **Identification and enzymatic characterization of the yeasts isolated from Erzincan tulum cheese**  
Karasu-Yalcin S., Senses-Ergul S., ÖZBAŞ Z. Y.  
MLJEKARSTVO, vol.62, no.1, pp.53-61, 2012 (SCI-Expanded)
- XIII. **Effects of Different Fermentation Conditions on Growth and Citric Acid Production Kinetics of two *Yarrowia lipolytica* Strains**  
Karasu-Yalcin S., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, vol.24, no.3, pp.347-360, 2010 (SCI-Expanded)
- XIV. **A comparative study of the effects of glycerol and mannitol on citric acid production by two *Yarrowia lipolytica* strains**  
KARASU YALÇIN S., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.14, no.6, pp.4870-4881, 2009 (SCI-Expanded)
- XV. **A comparative study on citric acid production kinetics of two *Yarrowia lipolytica* strains in two different media**  
Yalcin S. K., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
INDIAN JOURNAL OF BIOTECHNOLOGY, vol.8, no.4, pp.408-417, 2009 (SCI-Expanded)
- XVI. **Utilization of Whey and Grape Must for Citric Acid Production by Two *Yarrowia lipolytica* Strains**  
Yalcin S. K., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FOOD BIOTECHNOLOGY, vol.23, no.3, pp.266-283, 2009 (SCI-Expanded)
- XVII. **Chemical composition, antibacterial and antifungal activity of the essential oil of *Thymbra spicata* L. from Turkey**  
ÜNLÜ M., Vardar-Unlu G., VURAL N., DÖNMEZ E., ÖZBAŞ Z. Y.

- NATURAL PRODUCT RESEARCH, vol.23, no.6, pp.572-579, 2009 (SCI-Expanded)
- XVIII. **Effects of PH and temperature on growth and glycerol production kinetics of two indigenous wine strains of *Saccharomyces cerevisiae* from Turkey**  
KARASU YALÇIN S., ÖZBAŞ Z. Y.  
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- XIX. **Effects of ammonium sulphate concentration on growth and glycerol production kinetics of two endogenic wine yeast strains**  
YALÇIN S. S., Oezbas Z. Y.  
INDIAN JOURNAL OF BIOTECHNOLOGY, vol.7, no.1, pp.89-93, 2008 (SCI-Expanded)
- XX. **Production of glycerol by two endogenic wine yeast strains at different inoculum size**  
Yalcin S. K., Ozbaz Z. Y.  
FOOD TECHNOLOGY AND BIOTECHNOLOGY, vol.44, no.4, pp.525-529, 2006 (SCI-Expanded)
- XXI. **Characterization of the yeast flora present in some Turkish high-sugar products**  
Senses-Ergul S., Ozbaz Z. Y.  
JOURNAL OF GENERAL AND APPLIED MICROBIOLOGY, vol.52, no.2, pp.99-106, 2006 (SCI-Expanded)
- XXII. **Determination of growth and glycerol production kinetics of a wine yeast strain *Saccharomyces cerevisiae* Kalecik 1 in different substrate media**  
Yalcin S., Ozbaz Z. Y.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.21, no.6-7, pp.1303-1310, 2005 (SCI-Expanded)
- XXIII. **Effects of different substrates on growth and glycerol production kinetics of a wine yeast strain *Saccharomyces cerevisiae* Narince 3**  
Yalcin S., Ozbaz Z. Y.  
PROCESS BIOCHEMISTRY, vol.39, no.10, pp.1285-1291, 2004 (SCI-Expanded)
- XXIV. **Enumeration of *Escherichia coli* O157 : H7 by using immunomagnetic separation and ATP bioluminescence in buffer solution**  
AYTAÇ S. A., Mercanoglu B., Ozbaz Z. Y.  
ARCHIV FUR LEBENSMITTELHYGIENE, vol.52, no.6, pp.124-126, 2001 (SCI-Expanded)
- XXV. **Development of a multiplex and semi-nested PCR assay for detection of *Yersinia enterocolitica* and *Aeromonas hydrophila* in raw milk**  
Ozbaz Z. Y., Lehner A., Wagner M.  
FOOD MICROBIOLOGY, vol.17, no.2, pp.197-203, 2000 (SCI-Expanded)
- XXVI. **Effects of irradiation, antimicrobial agents and modified-atmosphere packaging on histamine production by *Morganella morganii* in mackerel fillets**  
AYTAC S., OZBAS Z. Y., Vural H.  
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- XXVII. **Survey on chemical and microbiological quality of frankfurter-type sausages retailed in Ankara: The incidence of *Yersinia enterocolitica***  
Vural H., AYTAC S., OZBAS Z. Y.  
FLEISCHWIRTSCHAFT, vol.76, no.11, pp.1170-1169, 1996 (SCI-Expanded)
- XXVIII. **Behaviour of *Yersinia enterocolitica* and *Aeromonas hydrophila* in skim milk during fermentation by various lactobacilli**  
Ozbaz Z. Y., AYTAÇ S. A.  
ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG, vol.202, no.4, pp.324-328, 1996 (SCI-Expanded)
- XXIX. **Combined effect of gamma-irradiation and conventional cooking on *Aeromonas hydrophila* in meatball**  
OZBAS Z. Y., Vural H., AYTAC S.  
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- XXX. **Effects of modified atmosphere and vacuum packaging on the growth of spoilage and inoculated pathogenic bacteria on fresh poultry**

OZBAS Z. Y., Vural H., AYTAC S.

ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG, vol.203, no.4, pp.326-332, 1996 (SCI-Expanded)

**XXXI. SURVEY OF THE GROWTH AND SURVIVAL OF YERSINIA-ENTEROCOLITICA AND AEROMONAS-HYDROPHILA IN YOGURT**

AYTAÇ S. A., OZBAS Z. Y.

MILCHWISSENSCHAFT-MILK SCIENCE INTERNATIONAL, vol.49, no.6, pp.322-325, 1994 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Fermente Gıdaların İnsan Sağlığı Üzerindeki Etkileri**  
AKDENİZ OKTAY B., ÖZBAŞ Z. Y.  
GIDA, vol.45, no.6, pp.1215-1226, 2020 (Peer-Reviewed Journal)
- II. **ENZYMATIC CHARACTERIZATION OF YEAST STRAINS ORIGINATED FROM TRADITIONAL MIHALIC CHEESE**  
KARASU YALÇIN S., Senses-Ergul S., ÖZBAŞ Z. Y.  
JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES, vol.6, no.5, pp.1152-1156, 2017 (ESCI)
- III. **Peynir mikroflorasındaki mayaların önemi**  
KARASU YALÇIN S., Şenses Ergül Ş., ÖZBAŞ Z. Y.  
The Journal of Food, vol.36, no.1, pp.55-62, 2011 (Peer-Reviewed Journal)
- IV. **Comparison of different selective media for the recovery of some yeasts from fruit yoghurt**  
Şenses Ergül Ş., ÖZBAŞ Z. Y.  
GIDA, vol.34, no.1, pp.5-9, 2009 (Peer-Reviewed Journal)
- V. **Growth of Yersinia enterocolitica and Aeromonas hydrophila in acidophilus yoghurt**  
AYTAÇ S. A., ÖZBAŞ Z. Y.  
Australian Journal of Dairy Technology, vol.49, no.2, pp.90-92, 1994 (Scopus)
- VI. **Bifidobacteria and Lactobacillus: Behaviour, Using for Dietary Purposes, Beneficial Effects and Applications of Products**  
ÖZBAŞ Z. Y.  
The Journal of Food, vol.18, no.4, pp.247-251, 1993 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Sitrik asit üretimi**  
KARASU YALÇIN S., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
in: FERMENTE ÜRÜNLER TEKNOLOJİSİ VE MİKROBİYOLOJİSİ, Erkmen Osman, Erten Hüseyin, Sağlam Hidayet, Editor, Nobel Akademik Yayıncılık Eğitim Danışmanlık Ticaret LTD. ŞTİ, Ankara, pp.679-699, 2020
- II. **Yeasts from Traditional Cheses for Potential Applications**  
Karasu Yalçın S., Özbaş Z. Y.  
in: Global Food Security and Wellness, G. V. Barbosa-Canovas, G. M. Pastore, K. Candoğan, I. G. M. Menza, S. C. S. Lannes, K. Buckle, R. Y. Yada, A. Rosenthal, Editor, Springer, London/Berlin, New York, pp.277-293, 2017
- III. **Citric Acid Production by Yeasts: Fermentation Conditions, Process Optimization and Strain Improvement**  
Seda K. Y., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
in: Current Research Technology and Education Topics in Applied Microbiology and Microbial Biotechnology, Mendez-Vilas A, Editor, Formatex Research Center, Madrid, pp.1374-1382, 2010

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effects of various nitrogen source combinations on growth and pullulan production characteristics of *Aureobasidium pullulans* AZ-6.**  
MÜJDECİ G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FEMS Online Conference on Microbiology, Belgrade, Serbia, 28 - 31 October 2020
- II. **Potential use of hazelnut husk for pullulan production by *Aureobasidium pullulans* AZ-6**  
AKDENİZ OKTAY B., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FEMS Online Conference on Microbiology, Belgrade, Serbia, 28 - 31 October 2020
- III. **Yeast isolaton during fermentaton of Turkish olives**  
MÜJDECİ G. N., maria A. V., ÖZBAŞ Z. Y., Perez A. B.  
IX. Congreso CyTA-CESIA, Madrid, Spain, 16 May 2017
- IV. **Determination of carbon assimilation profiles for identification of *Saccharomyces cerevisiae* strains isolated from Turkish sourdoughs.**  
BUKET S., ÖZBAŞ Z. Y.  
10th Balkan Cogress of Microbiology. Microbiologia Balkanica' 2017, Sofia, Bulgaria, Sofya, Bulgaria, 16 - 18 November 2017
- V. **Effects of various substrates on growth and pullulan production characteristics of *Aureobasidium pullulans* AZ-6**  
MÜJDECİ G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
10th Balkan Congress of Microbiology, Microbiologia Balkanica, 2017, Sofya, Bulgaria, 16 - 18 November 2017
- VI. **A comparative study on beta karoten production of some *Rhodotorula* strains**  
Mıdık F., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
10th Balkan Congress of Microbiology, Microbiologia Balkanica 2017, Sofya, Bulgaria, 16 - 18 November 2017
- VII. **A comparative study on  $\beta$ -carotene production of some *Rhodotorula* strains.**  
MIDIK F., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
10th Balkan Cogress of Microbiology. Microbiologia Balkanica' 2017, Sofia, Bulgaria, Sofya, Bulgaria, 16 - 18 November 2017
- VIII. **Mikrobiyel bir polisakkarit: Pullulan ve uygulama alanları**  
MÜJDECİ G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
10. Gıda Mühendisliği Kongresi, Antalya, Turkey, 9 - 11 November 2017
- IX. **A comparative study on pullulan production by various *Aureobasidium pullulans* strains.**  
MÜJDECİ G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FEMS 2017-7th Congress of European Microbiologists, Valencia, Spain, Valensiya, Spain, 9 - 13 July 2017
- X. **A comparative study on pullulan production by various *Aureobasidium pullulans***  
MÜJDECİ G. N., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FEMS 2017-7th Congress of European Microbiologists, Valensiya, 9 - 13 July 2017
- XI. **Influences of different minerals on the growth and citric acid production of *Yarrowia lipolytica***  
Karasu Yalçın S., BOZDEMİR M. T., ÖZBAŞ Z. Y.  
FEMS-6th Congress of European Microbiologists, Maastricht, Netherlands, 8 - 11 June 2015

## Supported Projects

ERGÜL ÜLGER Z., Parveen M., ESENDAĞLI G., Pehlivan A. D., ÖZBAŞ Z. Y., Gökşen S., Project Supported by Higher Education Institutions, Liamocin Uygulamasının Yanıklarda Yara İyileşmesi Üzerine Etkisinin Araştırılması, 2022 - Continues

ÖZBAŞ Z. Y., KARASU-YALÇIN S., ERYAŞAR K., BOZDEMİR M. T., MIDIK F., Project Supported by Higher Education Institutions, *Rhodotorula* cinsine ait bazı maya türlerinin beta-karoten üretimlerinin incelenmesi, 2016 - 2018

ÖZBAŞ Z. Y., Kirişcioğlu B., Project Supported by Higher Education Institutions, Yöresel Ekşi Hamurlardan *Saccharomyces cerevisiae* Suşlarının İzolasyonu Tanımlanması ve Multifonksiyonel Özelliklerinin Belirlenerek Endüstriyel Öneme Sahip Suşların Saptanması, 2015 - 2018

ÖZBAŞ Z. Y., KARA G. N., BOZDEMİR M. T., Project Supported by Higher Education Institutions, *Aureobasidium pullulans*

ile pullulan üretimine etki eden çeşitli parametrelerin incelenmesi, 2015 - 2017

ÖZBAŞ Z. Y., Project Supported by Higher Education Institutions, Farklı minerallerin *Yarrowia lipolytica* nın üreme ve sitrik asit üretimi üzerine etkileri, 2015 - 2015

## **Metrics**

Publication: 51

Citation (WoS): 260

Citation (Scopus): 277

H-Index (WoS): 11

H-Index (Scopus): 11