

# Prof. NİLÜFER AKSÖZ

## Personal Information

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## Education Information

Doctorate, Hacettepe University, Fen Fakültesi, Turkey 1976 - 1981

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Mikrobiyoloji, Turkey 1973 - 1976

Postgraduate, Hacettepe University, Fen Fakültesi, Turkey 1968 - 1973

## Foreign Languages

English, C1 Advanced

## Research Areas

Life Sciences, Biotechnology, Environmental Biotechnology, Industrial Biotechnology, Microbial Biotechnology, Microbiology, Natural Sciences

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

- I. **Optimization and reactor-scale production of plant growth regulators by *Pleurotus eryngii***  
Doğan B., YILDIZ Z., AKSÖZ N., Eninanç A. B., Korkmaz Kahveci B. G., YAMAÇ M.  
3 Biotech, vol.13, no.9, 2023 (SCI-Expanded)
- II. **Flask and reactor scale production of plant growth regulators by *Inonotus hispidus*: optimization, immobilization and kinetic parameters**  
Doğan B., YILDIZ Z., AKSÖZ N., Eninanç A. B., DAĞ İ., Yıldız A., Doğan H. H., YAMAÇ M.  
Preparative Biochemistry and Biotechnology, vol.53, no.10, pp.1210-1223, 2023 (SCI-Expanded)
- III. **Anti-Quorum Sensing Potential of Antioxidant Quercetin and Resveratrol**  
Erdonmez D., Rad A. Y., AKSÖZ N.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.61, 2018 (SCI-Expanded)
- IV. **Quorum sensing molecules production by nosocomial and soil isolates *Acinetobacter baumannii***  
Erdonmez D., Rad A. Y., AKSÖZ N.  
ARCHIVES OF MICROBIOLOGY, vol.199, no.10, pp.1325-1334, 2017 (SCI-Expanded)
- V. ***Escherichia Coli*: Characteristics of Carbapenem Resistance and Virulence Factors**  
Candan E. D., AKSÖZ N.  
BRAZILIAN ARCHIVES OF BIOLOGY AND TECHNOLOGY, vol.60, 2017 (SCI-Expanded)
- VI. **High trimethoprim-sulfamethoxazole resistance in ciprofloxacin-resistant *Escherichia coli* strains isolated from urinary tract infection**  
İDİL N., CANDAN E. D., Rad A. Y., AKSÖZ N.  
MINERVA BIOTECNOLOGICA, vol.28, no.3, pp.159-163, 2016 (SCI-Expanded)
- VII. **Molecular typing of clinical *Pseudomonas aeruginosa* strains by using RAPD-PCR**  
DİKEN GÜR S., AKSÖZ N.

MINERVA BIOTECNOLOGICA, vol.28, no.2, pp.104-113, 2016 (SCI-Expanded)

- VIII. **Concanavalin A immobilized magnetic poly(glycidyl methacrylate) beads for prostate specific antigen binding**  
İDİL N., Percin I., KARAKOC V., Yavuz H., AKSÖZ N., DENİZLİ A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.134, pp.461-468, 2015 (SCI-Expanded)
- IX. **Klebsiella pneumoniae: characteristics of carbapenem resistance and virulence factors**  
Candan E. D., AKSÖZ N.  
ACTA BIOCHIMICA POLONICA, vol.62, no.4, pp.867-874, 2015 (SCI-Expanded)
- X. **TiO<sub>2</sub> nanocomposites: Preparation, characterization, mechanical and biological properties**  
Kosarsoy G., Sen E. H., AKSÖZ N., İDE S., Aksoy H.  
APPLIED SURFACE SCIENCE, vol.318, pp.269-274, 2014 (SCI-Expanded)
- XI. **Anti quorum sensing activities of different extracts from Chlorella vulgaris**  
ERKAN K., ERDÖNMEZ D., Schamchi M. P., SAĞLAM N., KATIRCIOĞLU H., AKSÖZ N.  
Journal Of Biotechnology, vol.185, pp.99, 2014 (SCI-Expanded)
- XII. **Typing of different Staphylococcus strains by phenotypic and genotypic methods**  
İDİL N., AKSÖZ N.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XIII. **The prevalence and antibiotic resistance profiles of clinical Esherichia coli isolates**  
Candan E. D., İDİL N., Rad A. Y., AKSÖZ N.  
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XIV. **Effect of salinity on cell growth and beta-carotene production in Dunaliella sp isolates from Urmia Lake in northwest of Iran**  
Rad F. A., AKSÖZ N., Hejazi M. A.  
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.12, pp.2282-2289, 2011 (SCI-Expanded)
- XV. **Indole-3-acetic acid and gibberellic acid production in Aspergillus niger**  
Bilkay I. S., Karakoc S., AKSÖZ N.  
TURKISH JOURNAL OF BIOLOGY, vol.34, no.3, pp.313-318, 2010 (SCI-Expanded)
- XVI. **Some Optimal Cultural Parameters for Gibberellic Acid Biosynthesis by Pseudomonas sp.**  
Karakoç Ş., AKSÖZ N.  
Turkish Journal of Biology, no.2, pp.81-85, 2006 (SCI-Expanded)
- XVII. **Effect of carbon and nitrogen sources on xylanase production by Trichoderma harzianum 1073 D3**  
Seyis I., Aksoz N.  
INTERNATIONAL BIODETERIORATION & BIODEGRADATION, vol.55, no.2, pp.115-119, 2005 (SCI-Expanded)
- XVIII. **Xylanase production from Trichoderma harzianum 1073 D3 with alternative carbon and nitrogen sources**  
Seyis I., Aksoz N.  
FOOD TECHNOLOGY AND BIOTECHNOLOGY, vol.43, no.1, pp.37-40, 2005 (SCI-Expanded)
- XIX. **Determination of genetic relationship between methicillin-sensitive and methicillin-resistant Staphylococcus aureus clinical isolates by RAPD-PCR Method**  
Candan E. d., AKSÖZ N., SEYİS BİLKAY I.  
Hacettepe Journal of Biology and Chemistry, no.42, pp.167-173, 2004 (SCI-Expanded)
- XX. **Production of lactase by Trichoderma sp.**  
Seyis I., Aksoz N.  
FOOD TECHNOLOGY AND BIOTECHNOLOGY, vol.42, no.2, pp.121-124, 2004 (SCI-Expanded)
- XXI. **Determination of some physiological factors affecting xylanase production from Trichoderma harzianum 1073 D3**  
Seyis I., Aksoz N.  
MICROBIOLOGICA, vol.26, no.1, pp.75-81, 2003 (SCI-Expanded)
- XXII. **Corrosion of a drilling pipe steel in an environment containing sulphate-reducing bacteria**  
Sarioglu F., Javaherdashti R., Aksoz N.  
INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING, vol.73, no.2, pp.127-131, 1997 (SCI-Expanded)

- XXIII. **Effects of Treflan Herbicide on the Growth and Aflatoxin Production of *Aspergillus parasiticus* NRRL 2999**  
Yousefi Rad M., AKSÖZ N.  
Turkish Journal of Biology, no.23, pp.249-256, 1997 (SCI-Expanded)
- XXIV. **Effects of some physiologic factors on *Bacillus sp.* urease activity**  
AKSÖZ N.  
Mikrobiyoloji Bülteni, no.21, pp.34-41, 1987 (SCI-Expanded)
- XXV. **Effect of physiological factors on biosynthesis of urease in *Bacillus spp.***  
AKSÖZ N.  
Mikrobiyoloji Bülteni, no.21, pp.131-137, 1987 (SCI-Expanded)
- XXVI. **Halofilik bakteriler**  
AKSÖZ N.  
Mikrobiyoloji Bülteni, no.19, pp.161-167, 1985 (SCI-Expanded)
- XXVII. **Ilımlı tuzcul karakterli bir bakterinin Tuz Gölünden (Türkiye) izolasyonu**  
AKSÖZ N., Kolonkaya N.  
Mikrobiyoloji Bülteni, no.18, pp.107-113, 1984 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Comparison of PSA Binding for Prostate Cancer and BPH Using Lectin Glycoprotein Interactions**  
İDİL N., PERÇİN DEMİRÇELİK I., KARA Ö., Özdemir B., AKSÖZ N.  
Hacettepe Journal of Biology and Chemistry, vol.43, no.3, pp.205-211, 2015 (Peer-Reviewed Journal)
- II. **Effect of saltiness on the growth and production of carotenein isolated *Dunaliella sp* microalga from qom salt lake of Iran**  
Faraz A. R., AKSÖZ N., Mohammad A. H.  
International Journal of Biosciences, vol.6, no.2, pp.164-171, 2015 (Peer-Reviewed Journal)
- III. **Comparision of Two PCR-Based Methods in Typing of Clinical Staphylococcal Strains**  
İDİL N., AKSÖZ N.  
Hacettepe Journal of Biology and Chemistry, vol.41, no.1, pp.43-50, 2013 (Scopus)
- IV. **Stability of Tyrosinase Enzyme from *Funalia Trogii***  
MAJIDI D., AKSÖZ N.  
American Journal of Microbiological Research, vol.1, no.1, pp.1-3, 2013 (Peer-Reviewed Journal)
- V. **Effect of salinity on cell growth and carotene production in *Dunaliella sp* isolates from Urmia Lake in northwest of Iran**  
Arash Rad ., AKSÖZ N., Hejazi M. A.  
African Journal Of Biotechnology, vol.10, no.12, pp.2282-2289, 2011 (Peer-Reviewed Journal)
- VI. **Effect of Some Medium Component on Lactase Production from *T.Viride* ATCC32098**  
SEYİS BİLKAY I., AKSÖZ N.  
Hacettepe Journal of Biology and Chemistry, no.35, pp.89-92, 2007 (Scopus)
- VII. **Kültür mantarı *Agaricus bisporus* fruktifikasyonları ile örtü toprağı izolatı *Pseudomonas sp* etkileşimleri**  
Arkan O., GÜLER P., AKSÖZ N.  
Tr. J. of Biology, vol.18, pp.213-222, 1994 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Co-immobilized enzymes for the pre-treatment of wastewater**  
Gur S., İDİL N., AKSÖZ N.  
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256

- II. **Determination of quorum sensing signal molecules by bacteria isolated from different food samples**  
ERKAN TÜRKMEN K., ERDÖNMEZ D., AKSÖZ N.  
European Biotechnology Conference, Latvia, 5 - 07 May 2016, vol.231
- III. **Zeytinyağı Fındık Yağı Mısırozü Yağı ve Ayçiçek Yağının Pseudomonas aeruginosa nın Üretimi ve Biyosürefektan Varlığı Üzerine Etkisinin Araştırılması**  
BİLEN ÖZYÜREK S., DİKEN GÜR S., SEYİS BİLKAY I., AKSÖZ N.  
18. Ulusal Biyoteknoloji Kongresi, Turkey, 18 - 19 December 2015
- IV. **Ko immobilize Enzim İmmobilizasyonu için Kalsiyum Aljinatlı Matrikslerin Hazırlanması**  
DİKEN GÜR S., İDİL N., AKSÖZ N.  
18. Biyoteknoloji Kongresi, Turkey, 18 - 19 December 2015
- V. **Isolation and molecular characterization of extremely halophilic archaea from Turkey Tuz Lake**  
ERDÖNMEZ D., ERKAN TÜRKMEN K., AKSÖZ N.  
6th International Weigl Conference on Microbiology, Gdansk, Poland, 8 - 10 July 2015, vol.62, pp.124
- VI. **Optimization and kinetics of the phytohormone production by İnonotus hispidus in stirred tank reactor**  
YAMAÇ M., Babayigit M. K., Yüzüak S., Göksu C., Karaduman A. B., AKSÖZ N., YILDIZ Z., DOĞAN B.  
6th Congress of European Microbiologists (FEMS 2015), 7 - 11 June 2015
- VII. **Determination and Characterization Of Phytase From A Newly Isolated Bacillus Sp**  
ERKAN K., AKSÖZ N.  
6th Congress of European Microbiologists (FEMS 2015), Maastricht, Netherlands, 7 - 11 June 2015
- VIII. **Klebsiella pneumoniae Characteristics of carbapenem resistance and virulence factors**  
Candan E. D., AKSÖZ N.  
6th International Weigl Conferences on Microbiology, Gdansk, Poland, 8 - 10 July 2015
- IX. **Investigation of lectin and serum-PSA interaction using magnetic poly(glycidyl methacrylate) microspheres**  
İDİL N., PERÇİN DEMİRÇELİK I., Yavuz H., AKSÖZ N., DENİZLİ A.  
European Biotechnology Congress, Lecce, Italy, 15 - 18 May 2014, vol.185
- X. **Anti-quorum sensing activities of different extracts from Chlorella vulgaris**  
Erkan K., Erdonmez D., Schamchi M. P., SAĞLAM N., Katircioglu H. T., AKSÖZ N.  
European Biotechnology Congress, Lecce, Italy, 15 - 18 May 2014, vol.185
- XI. **Klinik Örneklerden İzole Edilen Pseudomonas aeruginosa Suşlarına Bitkisel Yağların Antimikrobiyal Etkileri**  
DİKEN GÜR S., AKSÖZ N., BİLEN ÖZYÜREK S., SEYİS BİLKAY I.  
22. Ulusal Biyoloji Kongresi, Turkey, 23 - 27 June 2014
- XII. **The Effect of TiO2 Nanocomposites On Some Foodborne Pathogens**  
KOŞARSOY AĞÇELİ G., AKSÖZ N.  
NN13 - 10th International Conference on Nanosciences & Nanotechnologies, Greece, 9 - 12 July 2013
- XIII. **Antimicrobial activity on Staphylococcus aureus by Photocatalyst nanocomposites**  
KOŞARSOY AĞÇELİ G., AKSÖZ N.  
NN13 - 10th International Conference on Nanosciences & Nanotechnologies, Greece, 9 - 12 July 2013

## Supported Projects

AKSÖZ N., Project Supported by Higher Education Institutions, Mermer tozu ile hazırlanan nanokompozitlerin antimikrobiyal etkilerinin araştırılması, 2013 - Continues

AKSÖZ N., DİKEN GÜR S., Project Supported by Higher Education Institutions, ATIKSU ÖN ARITIMI İÇİN KOİMMOBİLİZE ENZİM TASARIMI, 2016 - 2017

İDE S., ŞEN E. H. (., ÇINAR B., KOŞARSOY G., AKSÖZ N., ORUJALIPOR KALKHORAN I., Project Supported by Higher Education Institutions, Fizikokimyasal özellikleri olan yeni tasarım polimer-metal temelli malzemelerin yapısal değişimlerinin ve biyoaktivitelerinin araştırılması, 2015 - 2016

İDİL N., DİKEN GÜR S., AKSÖZ N., Project Supported by Higher Education Institutions, İki Farklı Destek Materyal ile Koimmobilize Enzim Tasarımı, 2015 - 2016

AKSÖZ N., İDİL N., Project Supported by Higher Education Institutions, PROSTAT KANSERİNE ÖZGÜL GLİKOPROTEİNLERİN TANIMLANMASI İÇİN LEKTİN AFİNİTE SORBENTLERİN HAZIRLANMASI, 2015 - 2015

AKSÖZ N., Project Supported by Higher Education Institutions, Alg ekstraktlarının bioaktif bileşiklerinin antimikrobiyal ve mutagenik aktivitelerinin araştırılması, 2014 - 2015

AKSÖZ N., Project Supported by Higher Education Institutions, Escherichia coli ve Klebsiella pneumoniae Suşlarındaki Karbapenem Direnci İle Virülans Faktörleri Arasındaki İlişkinin Moleküler Yöntemlerle Araştırılması, 2014 - 2015

## **Metrics**

Publication: 47

Citation (WoS): 228

Citation (Scopus): 57

H-Index (WoS): 9

H-Index (Scopus): 4