

Prof.Dr. EBRU TOKSOY ÖNER

Kişisel Bilgiler

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Biyografi

Professor Ebru Toksoy Öner received her PhD degree in Chemical Engineering in the year 2000 and currently she is working as a Professor at the Bioengineering Department of Marmara University (Istanbul, Turkey). She is the Principal Investigator of the [Industrial Biotechnology and Systems Biology \(IBSB\)](#). Prof. Toksoy Öner's current research in IBSB focuses on biomaterials, functional foods and systems microbiology. Ongoing research topics are functional biosurfaces, laser-based technologies, extremophiles, fructans, [levan polysaccharide](#), strain improvement for exopolysaccharide production, production of biopolymers form extremophiles, and optimization of fermentation processes to design high-yield production lines.

Prof. Toksoy Öner has been the coordinator of several national and international projects and partner in COST Actions. She is the Member of European Federation of Biotechnology (EFB), American Nano Society (ANS), American Chemical Society (ACS), International Society for Extremophiles (ISE), Turkish Biotechnology Society and author of various book chapters, reviews and more than 80 peer-reviewed research articles.

Eğitim Bilgileri

Doktora, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1995 - 2000

Yüksek Lisans, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1993 - 1995

Lisans, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 1988 - 1993

Yabancı Diller

İngilizce, C2 Yeterlilik

Yaptığı Tezler

Doktora, Production of Taq I Restriction and Modification Enzymes by Using Two Different Expression Systems, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, 2000

Yüksek Lisans, Cloning and Purification of a Thermostable DNA Polymerase , Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, 1995

Araştırma Alanları

Biyomedikal Mühendisliği, Kimya Mühendisliği ve Teknolojisi , Biyoteknoloji, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2013 - Devam Ediyor

Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2008 - Devam Ediyor
Yrd.Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2007 - 2008
Yrd.Doç.Dr., Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2001 - 2007
Araştırma Görevlisi, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1993 - 2000

Mesleki Deneyim

Enstitü Müdür Yardımcısı, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, 2014 - Devam Ediyor
Anabilim/Bilim Dalı Başkanı, Marmara Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2002 - 2003

Yönetilen Tezler

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TOKSOY ÖNER E., Öner E., Metabolic network-based analysis of cheese starter cultures as a microbial community, Doktora, E.Özcan(Öğrenci), 2019
TOKSOY ÖNER E., GÜNDÜZ O., 3d printed levan scaffolds for cardiac regeneration, Yüksek Lisans, E.Eminagic(Öğrenci), 2019
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TOKSOY ÖNER E., Cold pad batch dyeing method for sustainable textile production, Doktora, S.Müjgan(Öğrenci), 2017
TOKSOY ÖNER E., Levan-encapsulated magnetic nanocomposites, Doktora, İ.Çalgeriş(Öğrenci), 2017
TOKSOY ÖNER E., Microbial strain improvement strategies for levan production, Yüksek Lisans, B.Adnan(Öğrenci), 2017
TOKSOY ÖNER E., Process optimization for bioethanol production from agroindustrial wastes, Doktora, D.Köşebent(Öğrenci), 2016
TOKSOY ÖNER E., Biological activities of levan by halomonas sp., Doktora, H.Kazak(Öğrenci), 2016
TOKSOY ÖNER E., Bioactivity of levan based surfaces, Yüksek Lisans, M.Erginer(Öğrenci), 2014
TOKSOY ÖNER E., Investigation of sulfate-modified levan polysaccharides and their bioactivity, Yüksek Lisans, A.Akçay(Öğrenci), 2014
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TOKSOY ÖNER E., Investigation of exopolysaccharide production capacity of thermophilic microorganisms isolated from Turkey, Yüksek Lisans, S.Yaşar(Öğrenci), 2011
TOKSOY ÖNER E., Evaluation of different waste streams as fermentation substrates for microbial biopolymer production, Doktora, M.FARUK(Öğrenci), 2010
TOKSOY ÖNER E., Identification of levansucrase gene in Halomonas sp., Yüksek Lisans, B.Gökmen(Öğrenci), 2010
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TOKSOY ÖNER E., Production and characterization of bioceramic nanopowders of natural-biological origin, Yüksek Lisans, A.Umut(Öğrenci), 2008
TOKSOY ÖNER E., Polisakkarit üreten ekstremofillerin belirlenmesi ve ekzopolisakkarit üretimi, Yüksek Lisans, B.Gürleyendağ(Öğrenci), 2006
TOKSOY ÖNER E., Identification of halophilic microorganisms isolated from van lake and determination of their

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Sponge-derived natural bioactive glass microspheres with self-assembled surface channel arrays opening into a hollow core for bone tissue and controlled drug release applications**
Kaya M., Bilican I., Muhtaba M., Sargin I., Erginer Haskoylu M., TOKSOY ÖNER E., Zheng K., Boccaccini A. R. , Cansaran-Duman D., ÖNSES M. S. , et al.
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- II. **Comparative characterization of the hydrogel added PLA/ β -TCP scaffolds produced by 3D bioprinting**
aydođdu M. O. , TOKSOY ÖNER E., EKREN N., Erdemir G., KURUCA D. S. , YÜCA E., SENNAROĞLU BOSTAN M., EROĞLU M. S. , Ikram F., UZUN M., et al.
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- III. **Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE**
Mihailescu N., Haskoylu M. E. , Ristoscu C., Bostan M., Sopronyi M., EROĞLU M. S. , Chifiriuc M. C. , Mustaciosu C. C. , Axente E., Oner E. T. , et al.
APPLIED SURFACE SCIENCE, cilt.466, ss.628-636, 2019 (SCI İndekslerine Giren Dergi)
- IV. **From healing wounds to resorbable electronics, levan can fill bioadhesive roles in scores of markets**
Combie J., Oner E. T.
BIOINSPIRATION & BIOMIMETICS, cilt.14, 2019 (SCI İndekslerine Giren Dergi)
- V. **Production of fructo-oligosaccharides from levan treated with compressed hot water fluids**
Abea A., Ushiyama T., Oner E. T. , Shimizu N.
BASIC & CLINICAL PHARMACOLOGY & TOXICOLOGY, cilt.124, ss.48-49, 2018 (SCI İndekslerine Giren Dergi)
- VI. **Levansucrase from Halomonas smyrnensis AAD6(T): first halophilic GH-J clan enzyme recombinantly expressed, purified, and characterized**
Kirtel O., Menendez C., Versluys M., Van den Ende W., Hernandez L., Oner E. T.
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- VII. **Halomonas smyrnensis as a cell factory for co-production of PHB and levan**
Tohme S., Haciosmanođlu G. G. , Erođlu M. S. , Kasavi C., Genç S., Can Z. S. , Oner E. T.
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- VIII. **Fructan and glucan-mediated priming in banana**
Tezgel N., Zorilla J., Versluys M., Oner E. T. , Van den Ende W., Swennen R.
NEW BIOTECHNOLOGY, cilt.44, 2018 (SCI İndekslerine Giren Dergi)
- IX. **Fructans of the saline world**
Kirtel O., Versluys M., Van den Ende W., TOKSOY ÖNER E.
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- X. **Development of a cost-effective production process for Halomonas levan**
Erkorkmaz B. A. , Kirtel O., Duru O. A. , Oner E. T.
BIOPROCESS AND BIOSYSTEMS ENGINEERING, cilt.41, ss.1247-1259, 2018 (SCI İndekslerine Giren Dergi)
- XI. **Adhesive free-standing multilayer films containing sulfated levan for biomedical applications**
Gomes T. D. , Caridade S. G. , Sousa M. P. , Azevedo S., Kandur M. Y. , Oner E. T. , Alves N. M. , Mano J. F.
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- XII. **The Genome-Based Metabolic Systems Engineering to Boost Levan Production in a Halophilic Bacterial Model**
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OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, cilt.22, ss.198-209, 2018 (SCI İndekslerine Giren Dergi)
- XIII. **Formation of new, cytocompatible hydrogels based on photochemically crosslinkable levan methacrylates**

Berg A., Oner E. T. , Combie J., Schneider B., Ellinger R., Weisser J., Wyrwa R., Schnabelrauch M.
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- XIV. **The fructan syndrome: Evolutionary aspects and common themes among plants and microbes**
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- XV. **Novel levan and pNIPA temperature sensitive hydrogels for 5-ASA controlled release**
Osman A., Oner E. T. , EROĞLU M. S.
CARBOHYDRATE POLYMERS, cilt.165, ss.61-70, 2017 (SCI İndekslerine Giren Dergi)
- XVI. **Sugar Based Biopolymers in Nanomedicine; New Emerging Era for Cancer Imaging and Therapy**
EROĞLU M. S. , Oner E. T. , Mutlu E. C. , Bostan M.
CURRENT TOPICS IN MEDICINAL CHEMISTRY, cilt.17, ss.1507-1520, 2017 (SCI İndekslerine Giren Dergi)
- XVII. **Development and characterization of vancomycin-loaded levan-based microparticulate system for drug delivery**
SEZER A. D. , Sarilmiser H. K. , RAYAMAN E., Cevikbas A., Oner E. T. , Akbuga J.
PHARMACEUTICAL DEVELOPMENT AND TECHNOLOGY, cilt.22, ss.627-634, 2017 (SCI İndekslerine Giren Dergi)
- XVIII. **Lecithin-acrylamido-2-methylpropane sulfonate based crosslinked phospholipid nanoparticles as drug carrier**
Mutlu E. C. , Bostan M., Bahadori F., Kocyigit A., Oner E. T. , EROĞLU M. S.
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- XIX. **Sulfated levan from Halomonas smyrnensis as a bioactive, heparin-mimetic glycan for cardiac tissue engineering applications**
Erginer M., Akcay A., Coskuncan B., Morova T., Rende D., Bucak S., Baysal N., Ozisik R., EROĞLU M. S. , Agirbasli M., et al.
CARBOHYDRATE POLYMERS, cilt.149, ss.289-296, 2016 (SCI İndekslerine Giren Dergi)
- XX. **Identification of N-Hexadecanoyl-L-homoserine lactone (C16-AHL) as signal molecule in halophilic bacterium Halomonas smyrnensis AAD6**
Abbamondi G. R. , SÜNER S., Cutignano A., Grauso L., Nicolaus B., Oner E. T. , Tommonaro G.
ANNALS OF MICROBIOLOGY, cilt.66, ss.1329-1333, 2016 (SCI İndekslerine Giren Dergi)
- XXI. **Review of Levan polysaccharide: From a century of past experiences to future prospects**
Oner E. T. , Hernandez L., Combie J.
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- XXII. **Conformational analysis of sulfated and unmodified levan polysaccharides via molecular dynamics simulations**
Oner E. T. , Coskuncan B., Turgut D., Rende D., Bucak S., Baysal N., Ozisik R.
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- XXIII. **Sulfated Halomonas levan as a heparin-mimetic bioactive glycan**
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- XXIV. **Development of a cost-effective microbial levan production process by Halomonas cultures**
Erkorkmaz B. A. , Oner E. T.
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- XXV. **-1 Sulfated levan as a polymer for biomedical applications**
Avsar G., GÜNDÜZ O., Oner E. T.
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- XXVI. **The global transcriptional response of a raw starch-degrading amylolytic Saccharomyces cerevisiae strain to oxygen limitation and genetic modification**
Kasavi C., Eraslan S., TOKSOY ÖNER E., KIRDAR B.
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- XXVII. **Genomic analysis reveals the biotechnological and industrial potential of levan producing halophilic extremophile, Halomonas smyrnensis AAD6T**

- Diken E., Ozer T., Arikan M., Emrence Z., Oner E. T., ÜSTEK D., ARĞA K. Y.
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- XXVIII. **Effective stimulating factors for microbial levan production by Halomonas smyrnensis AAD6(T)**
Sarilmiser H. K., Ates O., Ozdemir G., ARĞA K. Y., Oner E. T.
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- XXIX. **Genomic analysis of Brevibacillus thermoruber 423 reveals its biotechnological and industrial potential**
Yildiz S. Y., Radchenkova N., ARĞA K. Y., Kambourova M., Oner E. T.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.99, ss.2277-2289, 2015 (SCI İndekslerine Giren Dergi)
- XXX. **Investigation of anti-cancer activity of linear and aldehyde-activated levan from Halomonas smyrnensis AAD6(T)**
Sarilmiser H., Oner E. T.
BIOCHEMICAL ENGINEERING JOURNAL, cilt.92, ss.28-34, 2014 (SCI İndekslerine Giren Dergi)
- XXXI. **Combinatorial MAPLE gradient thin film assemblies signalling to human osteoblasts**
Axente E., Sima F., Sima L. E., Erginer M., EROĞLU M. S., Serban N., Ristoscu C., Petrescu S. M., Oner E. T., Mihailescu I. N.
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- XXXII. **A system based network approach to ethanol tolerance in Saccharomyces cerevisiae**
Kasavi C., Eraslan S., ARĞA K. Y., Oner E. T., KIRDAR B.
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- XXXIII. **Functionally stable plasminogen activator inhibitor-1 in a family with cardiovascular disease and vitiligo**
Agirbasli M., Eren M., Yasar S., DELİL K., Goktay F., Oner E. T., Vaughan D. E.
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- XXXIV. **Comprehensive characterization of chitosan/PEO/levan ternary blend films**
Bostan M., Mutlu E. C., Kazak H., KESKİN S. S., Oner E. T., EROĞLU M. S.
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- XXXV. **Brevibacillus themoruber: a promising microbial cell factory for exopolysaccharide production**
Yildiz S. Y., Anzelmo G., Ozer T., Radchenkova N., Genc S., Di Donato P., Nicolaus B., Oner E. T., Kambourova M.
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- XXXVI. **The Stimulatory Effect of Mannitol on Levan Biosynthesis: Lessons from Metabolic Systems Analysis of Halomonas smyrnensis AAD6(T)**
Ates O., ARĞA K. Y., Oner E. T.
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- XXXVII. **Adhesive nanostructured multilayer films using a bacterial exopolysaccharide for biomedical applications**
Costa R. R., Neto A. I., Calgeris I., Correia C. R., Pinho A. C. M., Fonseca J., Oner E. T., Mano J. F.
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- XXXVIII. **Combinatorial matrix-assisted pulsed laser evaporation: Single-step synthesis of biopolymer compositional gradient thin film assemblies**
Sima F., Axente E., Sima L. E., Tuyel U., Eroglu M. S., Serban N., Ristoscu C., Petrescu S. M., Oner E. T., Mihailescu I. N.
APPLIED PHYSICS LETTERS, cilt.101, 2012 (SCI İndekslerine Giren Dergi)
- XXXIX. **Evaluation of industrial Saccharomyces cerevisiae strains for ethanol production from biomass**
Kasavi C., Finore I., Lama L., Nicolaus B., Oliver S. G., Oner E. T., KIRDAR B.
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- XL. **Draft Genome Sequence of Halomonas smyrnensis AAD6(T)**
Sogutcu E., Emrence Z., Arikan M., Cakiris A., Abaci N., Oner E. T., Ustek D., ARĞA K. Y.
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- XLI. **Identification of candidate genes related to ethanol tolerance in Saccharomyces cerevisiae via a systems based modular approach**

- Kasavi C., ARĀA K. Y. , Oner E. T. , KIRDAR B.
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- XLII. **Rheological characteristics of exopolysaccharides (EPSs) produced by *Brevibacillus thermoruber***
Yildiz S. Y. , Ozer T., Radchenkova N., GENÇ S., Oner E. T. , Kambourova M.
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI İndekslerine Giren Dergi)
- XLIII. **Identification of Exopolysaccharide Biosynthesis Mechanism of *Halomonas smyrnensis* AAD6(T)**
Sogutcu E., Oner E. T. , ARĀA K. Y.
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- XLIV. **Investigating the transcriptional differences of amyolytic *Saccharomyces cerevisiae* strains developed for bioethanol production via a systems based approach**
Kasavi C., Oner E. T. , Oliver S. G. , KIRDAR B.
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- XLV. **Purification, biochemical characterization and gene sequencing of a thermostable raw starch digesting alpha-amylase from *Geobacillus thermoleovorans* subsp *stromboliensis* subsp nov.**
Finore I., Kasavi C., Poli A., Romano I., Oner E. T. , KIRDAR B., Dipasquale L., Nicolaus B., Lama L.
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- XLVI. **Molasses as fermentation substrate for levan production by *Halomonas* sp.**
Kucukasik F., Kazak H., Guney D., Finore I., Poli A., YENİGÜN O., Nicolaus B., Oner E. T.
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- XLVII. **Levan-based nanocarrier system for peptide and protein drug delivery: Optimization and influence of experimental parameters on the nanoparticle characteristics**
SEZER A. D. , Kazak H., Oner E. T. , Akbuga J.
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- XLVIII. **Exopolysaccharides from extremophiles: from fundamentals to biotechnology**
Nicolaus B., Kambourova M., Oner E. T.
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- XLIX. **Genome-scale reconstruction of metabolic network for a halophilic extremophile, *Chromohalobacter salexigens***
Ates O., Oner E. T. , Arga K. Y.
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- L. **Biological activities of bioceramic powders of various natural biological origins**
Tuyel A. U. , Valerio P., Oner E. T. , Oktar F. N.
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- LI. **Molasses as fermentation substrate for microbial biopolymer production**
Kucukasik F., Yenigun O., Oner E. T.
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- LII. **Comparison of industrial *Saccharomyces cerevisiae* strains for second generation bioethanol production**
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- LIII. **Fermentation performances of amyolytic *Saccharomyces cerevisiae* integrands developed for bioethanol production**
Kosebent D., Ates O., Oner E. T. , Oliver S. G. , Kirdar B.
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- LIV. **Modeling of batch fermentation kinetics for levan production by *Halomonas* spp.**
Kazak H., Arga K. Y. , Oner E. T.
NEW BIOTECHNOLOGY, cilt.25, 2009 (SCI İndekslerine Giren Dergi)
- LV. **Simultaneous modeling of enzyme production and biomass growth in recombinant *Escherichia coli* using artificial neural networks**
Gunay M. E. , Nikerel I. E. , Oner E. T. , Kirdar B., YILDIRIM R.

- BIOCHEMICAL ENGINEERING JOURNAL, cilt.42, ss.329-335, 2008 (SCI İndekslerine Giren Dergi)
- LVI. **Investigation of Antibacterial and Cytotoxic Effects of Organic Acids Including Ascorbic Acid, Lactic Acid and Acetic Acids on Mammalian Cells**
Hismiogullari S. E. , Hismiogullari A. A. , Sahin F., Oner E. T. , Yenice S., Karasartova D.
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- LVII. **Sequence variations within the genes related to hemostatic imbalance and their impact on coronary artery disease in Turkish population**
Taymaz H., Erarslan S., Oner E. T. , Alkan T., Agirbasli M., Kirdar B.
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- LVIII. **Isolation and identification of alkaline protease producer halotolerant Bacillus licheniformis strain BA17**
Ates O., Oner E. T. , Arikan B., Denizci A. A. , Kazan D.
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- LIX. **Optimization of ethanol production from starch by an amylolytic nuclear petite Saccharomyces cerevisiae strain**
Oner E. T.
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Diğer Dergilerde Yayınlanan Makaleler

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