

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 from 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 Ustalık

Yaptığı Tezler

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

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Araştırma Alanları

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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 - 2013
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

Akademik İdari Deneyim

Marmara Üniversitesi, Fen Bilimleri Enstitüsü, 2014 - Devam Ediyor
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- I. **Levan differentially primes barley defence against infections by *Fusarium graminearum*, *Rhizoctonia solani* and *Pyricularia oryzae***
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- III. **Shelf life of cocktail tomato extended with chitosan, chia mucilage and levan**
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- V. **QPCR-Guided Screening of Levansucrase: Levan Characterization and Genomic Insights**
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- VI. **First transcriptomic insight into the reprogramming of human macrophages by levan-type fructans**
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- VII. **Synthesis and characterization of interpenetrating network (IPN) based levan-polyacrylamide hydrogels and their application in conservation of cultural heritage**
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- X. **Co-production of levan with other high-value bioproducts: A review**
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- XI. **Biosynthesis of Levan by *Halomonas elongata* 153B: Optimization for Enhanced Production and Potential Biological Activities for Pharmaceutical Field**
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- XIV. **UV and chemically induced *Halomonas smyrnensis* mutants for enhanced levan productivity**
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- XV. **Protein surface engineering and interaction studies of maltogenic amylase towards improved enzyme immobilisation**
Jaafar N. R., Jailani N., Rahman R. A., TOKSOY ÖNER E., Murad A. M. A., Illias R. M.
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- XVI. **Fructan oligosaccharide priming alters apoplastic sugar dynamics and improves resistance against *Botrytis cinerea* in chicory**
Versluys M., TOKSOY ÖNER E., Van den Ende W.
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- XVII. **Genomic Analysis Provides New Insights Into Biotechnological and Industrial Potential of *Parageobacillus thermantarcticus* M1**
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- XVIII. **Developments in effective use of volatile organic compound analysis to assess flavour formation during cheese ripening**
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- XIX. **Synthesis and characterization of levan hydrogels and their use for resveratrol release**
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- XX. **Improving the Thermostability and Catalytic Activity of an Inulosucrase by Rational Engineering for the Biosynthesis of Microbial Inulin**
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- XXI. **Levan enhanced the NF-kappa B suppression activity of an oral nano PLGA-curcumin formulation in breast cancer treatment**
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- XXIII. **Fructanogenic traits in halotolerant *Bacillus licheniformis* OK12 and their predicted functional significance**
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- XXVI. **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**
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- XXVII. **Improved Exopolymer Production by Chromohalobacter canadensis Cultures for Its Potential Cosmeceutical Applications**
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- XXVIII. **Polymer Based Bioadhesive Biomaterials for Medical Application-A Perspective of Redefining Healthcare System Management**
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- XXX. **From healing wounds to resorbable electronics, levan can fill bioadhesive roles in scores of markets**
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- XXXI. **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-Expanded)
- XXXII. **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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- XXXIII. **Halomonas smyrnensis as a cell factory for co-production of PHB and levan**
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- XXXVI. **Fructans of the saline world**
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- XXXVII. **Levan based fibrous scaffolds electrospun via co-axial and single-needle techniques for tissue engineering applications**
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- XXXVIII. **Adhesive free-standing multilayer films containing sulfated levan for biomedical applications**
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- XL. **Formation of new, cytocompatible hydrogels based on photochemically crosslinkable levan methacrylates**
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- XLI. **The fructan syndrome: Evolutionary aspects and common themes among plants and microbes**
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- XLII. **Levan promotes antiproliferative and pro-apoptotic effects in MCF-7 breast cancer cells mediated by oxidative stress**
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- XLV. **Development and characterization of vancomycin-loaded levan-based microparticulate system for drug delivery**
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- XLVII. **Sulfated levan from Halomonas smyrnensis as a bioactive, heparin-mimetic glycan for cardiac tissue engineering applications**
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- XLVIII. **Identification of N-Hexadecanoyl-L-homoserine lactone (C16-AHL) as signal molecule in halophilic bacterium Halomonas smyrnensis AAD6**
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- XLIX. **Review of Levan polysaccharide: From a century of past experiences to future prospects**
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- LI. **Conformational analysis of sulfated and unmodified levan polysaccharides via molecular dynamics simulations**
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- LV. **The global transcriptional response of a raw starch-degrading amylolytic *Saccharomyces cerevisiae* strain to oxygen limitation and genetic modification**
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- LVIII. **Genomic analysis of *Brevibacillus thermoruber* 423 reveals its biotechnological and industrial potential**
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Metrikler

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