

Prof. EBRU TOKSOY ÖNER

Personal Information

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Biography

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.

Education Information

Doctorate, Bogazici University, Institute Of Science, Turkey 1995 - 2000

Postgraduate, Bogazici University, Institute Of Science, Turkey 1993 - 1995

Undergraduate, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, Turkey 1988 - 1993

Foreign Languages

English, C2 Mastery

Dissertations

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

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

Research Areas

Biomedical Engineering, Chemical Engineering and Technology, Biotechnology, Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty Of Engineering, Bioengineering, 2013 - Continues
Associate Professor, Marmara University, Faculty Of Engineering, Bioengineering, 2008 - 2013
Assistant Professor, Marmara University, Faculty Of Engineering, Bioengineering, 2007 - 2008
Assistant Professor, Marmara University, Faculty Of Engineering, Chemical Engineering, 2001 - 2007
Research Assistant, Bogazici University, Faculty Of Engineering, Department Of Chemistry Engineering, 1993 - 2000

Academic and Administrative Experience

Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2014 - Continues
Marmara University, Faculty of Engineering, Chemical Engineering, 2002 - 2003

Advising Theses

TOKSOY ÖNER E., Halomonas levan hydrogels for skin tissue engineering applications, Postgraduate, S.Selvin(Student), 2019
TOKSOY ÖNER E., Öner E., Purification and optimization of deinoxanthin isolated from deinococcus radiodurans R1, Postgraduate, S.Kılınç(Student), 2019
TOKSOY ÖNER E., GÜNDÜZ O., 3d printed levan scaffolds for cardiac regeneration, Postgraduate, E.Eminagic(Student), 2019
TOKSOY ÖNER E., Öner E., Investigating the effects of halomonas smyrnensis levan as soluble fiber on fat deposition and lifespan using caenorhabditis elegans as model, Postgraduate, H.Önder(Student), 2019
TOKSOY ÖNER E., Öner E., Metabolic network-based analysis of cheese starter cultures as a microbial community, Doctorate, E.Özcan(Student), 2019
TOKSOY ÖNER E., Levan-encapsulated magnetic nanocomposites, Doctorate, İ.Çalgeriş(Student), 2017
TOKSOY ÖNER E., Microbial strain improvement strategies for levan production, Postgraduate, B.Adnan(Student), 2017
TOKSOY ÖNER E., Cold pad batch dyeing method for sustainable textile production, Doctorate, S.Müjgan(Student), 2017
TOKSOY ÖNER E., Process optimization for bioethanol production from agroindustrial wastes, Doctorate, D.Köşebent(Student), 2016
TOKSOY ÖNER E., Biological activities of levan by halomonas sp., Doctorate, H.Kazak(Student), 2016
TOKSOY ÖNER E., Bioactivity of levan based surfaces, Postgraduate, M.Erginer(Student), 2014
TOKSOY ÖNER E., Investigation of sulfate-modified levan polysaccharides and their bioactivity, Postgraduate, A.Akçay(Student), 2014
TOKSOY ÖNER E., A system based rational approach to improve first and second generation bioethanol production by Saccharomyces Cerevisiae, Doctorate, C.KASAVI(Student), 2013
TOKSOY ÖNER E., Investigation of exopolysaccharide production capacity of thermophilic microorganisms isolated from Turkey, Postgraduate, S.Yaşar(Student), 2011
TOKSOY ÖNER E., Fermentation performances of amyolytic nuclear petite Saccharomyces cerevisiae integrands developed for bioethanol production, Postgraduate, D.Köşebent(Student), 2010
TOKSOY ÖNER E., Evaluation of different waste streams as fermentation substrates for microbial biopolymer production, Doctorate, M.FARUK(Student), 2010
TOKSOY ÖNER E., Identification of levansucrase gene in Halomonas sp., Postgraduate, B.Gökmen(Student), 2010
TOKSOY ÖNER E., Exopolysaccharide production by halomonas strains isolated from Turkey, Postgraduate, H.Kazak(Student), 2009
TOKSOY ÖNER E., Construction of Amyolytic Nuclear Petite Saccharomyces Cerevisiae Strains For Bioethanol Production

By SSF, Postgraduate, D.Arslan(Student), 2008

TOKSOY ÖNER E., Production and characterization of bioceramic nanopowders of natural-biological origin, Postgraduate, A.Umut(Student), 2008

TOKSOY ÖNER E., Polisakkarit üreten ekstremofillerin belirlenmesi ve ekzopolisakkarit üretimi, Postgraduate, B.Gürleyendağ(Student), 2006

TOKSOY ÖNER E., Identification of halophilic microorganisms isolated from van lake and determination of their extremozymes, Postgraduate, Ö.Ateş(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterization of inulolytic enzymes from the Jerusalem artichoke-derived *Glutamicibacter mishrai* NJAU-1**
Lian D., Zhuang S., Shui C., Zheng S., Ma Y., Sun Z., Porras-Dominguez J. R. , TOKSOY ÖNER E., Liang M., Van den Ende W.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.106, no.17, pp.5525-5538, 2022 (Peer-Reviewed Journal)
- II. **UV and chemically induced *Halomonas smyrnensis* mutants for enhanced levan productivity**
Erkorkmaz B. A. , Kirtel O., Abaramak G., Nikerel E., TOKSOY ÖNER E.
JOURNAL OF BIOTECHNOLOGY, vol.356, pp.19-29, 2022 (Peer-Reviewed Journal)
- III. **Production of a high molecular weight levan by *Bacillus paralicheniformis*, an industrially and agriculturally important isolate from the buffalo grass rhizosphere**
Nasir A., Ahmad W., Sattar F., Ashfaq I., Lindemann S. R. , Chen M., Van den Ende W., TOKSOY ÖNER E., Kirtel O., Khaliq S., et al.
ANTONIE VAN LEEUWENHOEK INTERNATIONAL JOURNAL OF GENERAL AND MOLECULAR MICROBIOLOGY, 2022 (Peer-Reviewed Journal)
- IV. **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.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.213, pp.70-82, 2022 (Peer-Reviewed Journal)
- V. **Fructan oligosaccharide priming alters apoplastic sugar dynamics and improves resistance against *Botrytis cinerea* in chicory**
Versluys M., TOKSOY ÖNER E., Van den Ende W.
JOURNAL OF EXPERIMENTAL BOTANY, vol.73, pp.4214-4235, 2022 (Peer-Reviewed Journal)
- VI. **Genomic Analysis Provides New Insights Into Biotechnological and Industrial Potential of *Parageobacillus thermantarcticus* M1**
YILDIZ S. Y. , Finore I., Leone L., Romano I., Lama L., KASAVI C., Nicolaus B., TOKSOY ÖNER E., Poli A.
FRONTIERS IN MICROBIOLOGY, vol.13, 2022 (Peer-Reviewed Journal)
- VII. **Developments in effective use of volatile organic compound analysis to assess flavour formation during cheese ripening**
Yavuz M., KASAVI C., Oner E. T.
JOURNAL OF DAIRY RESEARCH, vol.88, pp.461-467, 2021 (Peer-Reviewed Journal)
- VIII. **Synthesis and characterization of levan hydrogels and their use for resveratrol release**
Selvi S. S. , Haskoylu M. E. , GENÇ S., TOKSOY ÖNER E.
JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS, vol.36, no.6, pp.464-480, 2021 (Peer-Reviewed Journal)
- IX. **Improving the Thermostability and Catalytic Activity of an Inulosucrase by Rational Engineering for the Biosynthesis of Microbial Inulin**
Ni D., Zhang S., Kirtel O., Xu W., Chen Q., Oner E. T. , Mu W.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.69, no.44, pp.13125-13134, 2021 (Peer-Reviewed Journal)
- X. **Resveratrol-Loaded Levan Nanoparticles Produced by Electrohydrodynamic Atomization Technique**
Cinan E., Cesur S., Haskoylu M. E. , GÜNDÜZ O., Oner E.

NANOMATERIALS, vol.11, no.10, 2021 (Peer-Reviewed Journal)

- XI. **Levan enhanced the NF-kappa B suppression activity of an oral nano PLGA-curcumin formulation in breast cancer treatment**
Eskandari Z., BAHADORİ F., YENİGÜN V. B. , Demiray M., EROĞLU M. S. , KOÇYİĞİT A., Oner E. T.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.189, pp.223-231, 2021 (Peer-Reviewed Journal)
- XII. **Improving the catalytic behaviors of Lactobacillus-derived fructansucrases by truncation strategies**
Ni D., Kirtel O., Yin D., Xu W., Chen Q., Oner E. T. , Mu W.
ENZYME AND MICROBIAL TECHNOLOGY, vol.149, 2021 (Peer-Reviewed Journal)
- XIII. **Fructanogenic traits in halotolerant Bacillus licheniformis OK12 and their predicted functional significance**
Kirtel O., Aydin H., Toksoy Oner E.
JOURNAL OF APPLIED MICROBIOLOGY, vol.131, no.3, pp.1391-1404, 2021 (Peer-Reviewed Journal)
- XIV. **Functional and Molecular Characterization of the Halomicrobium sp. IBSBa Inulosucrase**
Abaramak G., Porrás-Dominguez J. R. , van Rensburg H. C. J. , Lescrinier E., Oner E. T. , Kirtel O., Van den Ende W.
MICROORGANISMS, vol.9, no.4, 2021 (Peer-Reviewed Journal)
- XV. **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., Mujtaba M., Sargin I., Erginer Haskoğlu M., TOKSOY ÖNER E., Zheng K., Boccaccini A. R. , Cansaran-Duman D., ÖNSES M. S. , et al.
Chemical Engineering Journal, vol.407, 2021 (Peer-Reviewed Journal)
- XVI. **Improved Exopolymer Production by Chromohalobacter canadensis Cultures for Its Potential Cosmeceutical Applications**
Radchenkova N., Haskoğlu M. E. , Vassilev S., YILDIZ S. Y. , Boyadzhieva I., Oner E., Kambourova M.
MICROORGANISMS, vol.8, no.12, 2020 (Peer-Reviewed Journal)
- XVII. **Polymer Based Bioadhesive Biomaterials for Medical Application-A Perspective of Redefining Healthcare System Management**
Saha N., Saha N., Saha T., TOKSOY ÖNER E., Brodnjak U. V. , Redl H., von Byern J., Saha P.
POLYMERS, vol.12, no.12, 2020 (Peer-Reviewed Journal)
- XVIII. **Gradient multifunctional biopolymer thin film assemblies synthesized by combinatorial MAPLE**
Mihailescu N., Haskoğlu 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, vol.466, pp.628-636, 2019 (Peer-Reviewed Journal)
- XIX. **From healing wounds to resorbable electronics, levan can fill bioadhesive roles in scores of markets**
Combie J., Oner E. T.
BIOINSPIRATION & BIOMIMETICS, vol.14, no.1, 2019 (Peer-Reviewed Journal)
- XX. **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, vol.124, pp.48-49, 2018 (Peer-Reviewed Journal)
- XXI. **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.
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.102, no.21, pp.9207-9220, 2018 (Peer-Reviewed Journal)
- XXII. **Halomonas smyrnensis as a cell factory for co-production of PHB and levan**
Tohme S., Hacısmanoğlu G. G. , Eroğlu M. S. , Kasavi C., Genç S., Can Z. S. , Oner E. T.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.118, pp.1238-1246, 2018 (Peer-Reviewed Journal)
- XXIII. **Fructan and glucan-mediated priming in banana**
Tezgel N., Zorilla J., Versluys M., Oner E. T. , Van den Ende W., Swennen R.
NEW BIOTECHNOLOGY, vol.44, 2018 (Peer-Reviewed Journal)
- XXIV. **Fructans of the saline world**

- Kirtel O., Versluys M., Van den Ende W., TOKSOY ÖNER E.
BIOTECHNOLOGY ADVANCES, vol.36, no.5, pp.1524-1539, 2018 (Peer-Reviewed Journal)
- XXV. **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, vol.41, no.9, pp.1247-1259, 2018 (Peer-Reviewed Journal)
- XXVI. **Levan based fibrous scaffolds electrospun via co-axial and single-needle techniques for tissue engineering applications**
Avsar G., Agirbasli D., AĞIRBAŞLI M. A. , GÜNDÜZ O., Oner E.
CARBOHYDRATE POLYMERS, vol.193, pp.316-325, 2018 (Peer-Reviewed Journal)
- XXVII. **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.
ACTA BIOMATERIALIA, vol.69, pp.183-195, 2018 (Peer-Reviewed Journal)
- XXVIII. **The Genome-Based Metabolic Systems Engineering to Boost Levan Production in a Halophilic Bacterial Model**
Aydin B., Ozer T., Oner E. T. , ARÇA K. Y.
OMICS-A JOURNAL OF INTEGRATIVE BIOLOGY, vol.22, no.3, pp.198-209, 2018 (Peer-Reviewed Journal)
- XXIX. **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.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.107, pp.2312-2319, 2018 (Peer-Reviewed Journal)
- XXX. **The fructan syndrome: Evolutionary aspects and common themes among plants and microbes**
Versluys M., Kirtel O., Oner E. T. , Van den Ende W.
PLANT CELL AND ENVIRONMENT, vol.41, no.1, pp.16-38, 2018 (Peer-Reviewed Journal)
- XXXI. **Levan promotes antiproliferative and pro-apoptotic effects in MCF-7 breast cancer cells mediated by oxidative stress**
Queiroz E. A. I. F. , Fortes Z. B. , da Cunha M. A. A. , Sarilmiser H. K. , Dekker A. M. B. , TOKSOY ÖNER E., Dekker R. F. H. , Khaper N.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.102, pp.565-570, 2017 (Peer-Reviewed Journal)
- XXXII. **Novel levan and pNIPA temperature sensitive hydrogels for 5-ASA controlled release**
Osman A., Oner E. T. , EROĞLU M. S.
CARBOHYDRATE POLYMERS, vol.165, pp.61-70, 2017 (Peer-Reviewed Journal)
- XXXIII. **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, vol.17, no.13, pp.1507-1520, 2017 (Peer-Reviewed Journal)
- XXXIV. **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, vol.22, no.5, pp.627-634, 2017 (Peer-Reviewed Journal)
- XXXV. **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.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.42, 2016 (Peer-Reviewed Journal)
- XXXVI. **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, vol.149, pp.289-296, 2016 (Peer-Reviewed Journal)
- XXXVII. **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, vol.66, no.3, pp.1329-1333, 2016 (Peer-Reviewed Journal)
- XXXVIII. **Review of Levan polysaccharide: From a century of past experiences to future prospects**
Oner E. T. , Hernandez L., Combie J.
BIOTECHNOLOGY ADVANCES, vol.34, no.5, pp.827-844, 2016 (Peer-Reviewed Journal)
- XXXIX. **Development of a cost-effective microbial levan production process by Halomonas cultures**
Erkorkmaz B. A. , Oner E. T.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- XL. **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.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- XLI. **Sulfated Halomonas levan as a heparin-mimetic bioactive glycan**
Erginer M., Coskuncan B., Morova T., Rende D., Bucak S., Baysal N., Ozisik R., EROĞLU M. S. , Agirbasli M., Oner E. T.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- XLII. **-1 Sulfated levan as a polymer for biomedical applications**
Avsar G., GÜNDÜZ O., Oner E. T.
NEW BIOTECHNOLOGY, vol.33, 2016 (Peer-Reviewed Journal)
- XLIII. **The global transcriptional response of a raw starch-degrading amyolytic Saccharomyces cerevisiae strain to oxygen limitation and genetic modification**
Kasavi C., Eraslan S., TOKSOY ÖNER E., KIRDAR B.
TURKISH JOURNAL OF BIOLOGY, vol.40, no.3, pp.684-723, 2016 (Peer-Reviewed Journal)
- XLIV. **An integrative analysis of transcriptomic response of ethanol tolerant strains to ethanol in Saccharomyces cerevisiae**
Kasavi C., Eraslan S., Oner E., Kirdar B.
MOLECULAR BIOSYSTEMS, vol.12, no.2, pp.464-476, 2016 (Peer-Reviewed Journal)
- XLV. **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.
SPRINGERPLUS, vol.4, 2015 (Peer-Reviewed Journal)
- XLVI. **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.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.119, no.4, pp.455-463, 2015 (Peer-Reviewed Journal)
- XLVII. **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, vol.99, no.5, pp.2277-2289, 2015 (Peer-Reviewed Journal)
- XLVIII. **Investigation of anti-cancer activity of linear and aldehyde-activated levan from Halomonas smyrnensis AAD6(T)**
Sarilmiser H., Oner E. T.
BIOCHEMICAL ENGINEERING JOURNAL, vol.92, pp.28-34, 2014 (Peer-Reviewed Journal)
- XLIX. **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.
BIOFABRICATION, vol.6, no.3, 2014 (Peer-Reviewed Journal)
- L. **A system based network approach to ethanol tolerance in Saccharomyces cerevisiae**
Kasavi C., Eraslan S., ARĞA K. Y. , Oner E. T. , KIRDAR B.
BMC SYSTEMS BIOLOGY, vol.8, 2014 (Peer-Reviewed Journal)
- LI. **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.

- JOURNAL OF THROMBOSIS AND THROMBOLYSIS, vol.38, no.1, pp.50-56, 2014 (Peer-Reviewed Journal)
- LII. **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.
CARBOHYDRATE POLYMERS, vol.102, pp.993-1000, 2014 (Peer-Reviewed Journal)
- LIII. **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.
JOURNAL OF APPLIED MICROBIOLOGY, vol.116, no.2, pp.314-324, 2014 (Peer-Reviewed Journal)
- LIV. **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.
BIOTECHNOLOGY PROGRESS, vol.29, no.6, pp.1386-1397, 2013 (Peer-Reviewed Journal)
- LV. **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.
JOURNAL OF MATERIALS CHEMISTRY B, vol.1, no.18, pp.2367-2374, 2013 (Peer-Reviewed Journal)
- LVI. **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, vol.101, no.23, 2012 (Peer-Reviewed Journal)
- LVII. **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.
JOURNAL OF BACTERIOLOGY, vol.194, no.20, pp.5690-5691, 2012 (Peer-Reviewed Journal)
- LVIII. **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.
BIOMASS & BIOENERGY, vol.45, pp.230-238, 2012 (Peer-Reviewed Journal)
- LIX. **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, vol.29, 2012 (Peer-Reviewed Journal)
- LX. **Identification of Exopolysaccharide Biosynthesis Mechanism of Halomonas smyrnensis AAD6(T)**
Sogutcu E., Oner E. T. , ARĞA K. Y.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXI. **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.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXII. **Identification of candidate genes related to ethanol tolerance in Saccharomyces cerevisiae via a systems based modular approach**
Kasavi C., ARĞA K. Y. , Oner E. T. , KIRDAR B.
NEW BIOTECHNOLOGY, vol.29, 2012 (Peer-Reviewed Journal)
- LXIII. **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.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.27, no.10, pp.2425-2433, 2011 (Peer-Reviewed Journal)
- LXIV. **Levan Nanostructured Thin Films by MAPLE Assembling**
Sima F., Mutlu E. C. , EROĞLU M. S. , Sima L. E. , Serban N., Ristoscu C., Petrescu S. M. , Oner E., Mihailescu I. N.
BIOMACROMOLECULES, vol.12, no.6, pp.2251-2256, 2011 (Peer-Reviewed Journal)
- LXV. **Molasses as fermentation substrate for levan production by Halomonas sp.**
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