

# Prof. GÜLAY ÖZCENGİZ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-1707-2020

ScopusID: 7003366111

Yoksis Researcher ID: 10818

## Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoloji (Dr), Turkey 1984 - 1989

## Research Areas

Biotechnology, Microbiology, Genomics

## Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1997 - Continues

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1994 - 1997

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1992 - 1994

## Academic and Administrative Experience

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2012 - 2014

Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyoteknoloji (YI) (Tezli), 2007 - 2009

Deputy Head of Department, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1998 - 2001

## Courses

MICROBES AND MOLECULAR PATHOGENESIS, Undergraduate, 2022 - 2023

ADVANCED MICROBIOLOGY, Postgraduate, 2022 - 2023

Microbiology Lab, Undergraduate, 2022 - 2023

## Advising Theses

- ÖZCENGİZ G., Assessment of the immunogenicity and formulation of recombinant proteins from SARS-CoV-2 as vaccine antigens, Postgraduate, D.KESER(Student), 2022
- ÖZCENGİZ G., Cloning and expression of gerE and glmS genes in Escherichia coli and Bacillus subtilis, and investigation of their possible interrelation with bacilysin biosynthesis, Postgraduate, S.AKAYSOY(Student), 2022
- ÖZCENGİZ G., Comparative transcriptome analyses of a standard strain and clavulanic acid overproducing industrial strain of s. Clavuligerus, Postgraduate, G.ÇELİK(Student), 2021
- ÖZCENGİZ G., Comparative transcriptomics of Bacillus subtilis bacilysin-negative genotype with particular reference to bacilysin formation, Postgraduate, N.KOCABAY(Student), 2021
- ÖZCENGİZ G., Development of an experimental recombinant vaccine formulation composed of LKTA from Mannheimia Haemolytica A1 and P31 and LPPB from Histophilus Somni 8025 against Hovine Respiratory Disease, Postgraduate, N.Hilal(Student), 2020
- ÖZCENGİZ G., marT as a global regulatory gene for biofilm formation in Salmonella Typhimurium, Doctorate, Z.Eran(Student), 2020
- ÖZCENGİZ G., Phenotypic rescue of a Bacilysin-silenced strain of Bacillus Subtilis with Bacilysin supplementation, Postgraduate, O.Ertekin(Student), 2020
- Özcengiz G., Tunçbağ N., Biological network modeling based on differentially expressed proteins in a bacilysin-deficient strain of Bacillus subtilis, Postgraduate, M.Kutnu(Student), 2019
- ÖZCENGİZ G., Biological network modelling based on differentially expressed proteins in a bacilysin-deficient strain of bacillus subtilis, Postgraduate, M.Kutnu(Student), 2019
- ÖZCENGİZ G., Expression and activity analyses of industrially important extracellular enzymes produced by a bacilysin knock-out mutant of Bacillus subtilis, Postgraduate, S.AYTEKİN(Student), 2018
- ÖZCENGİZ G., Quantitative expression analysis of the genes potentially involved in clavulanic acid overproduction in streptomyces clavuligerus, Postgraduate, C.AKTAŞ(Student), 2018
- ÖZCENGİZ G., Dynamic analysis of secretome alterations in a bacilysin-knock out mutant of Bacillus subtilis, Doctorate, E.TEKİN(Student), 2017
- ÖZCENGİZ G., Assessment of immune protective capacities of the recombinant outer membrane protein Q, iron superoxide dismutase and putative lipoprotein from Bordetella pertussis, Doctorate, Ç.YILMAZ(Student), 2017
- ÖZCENGİZ G., Proteomic analysis of two cephamycin c overproducer and an industrial clavulanic acid overproducer strains of streptomyces clavuligerus in comparison with the standard strain NRRL 3585, Doctorate, E.Ünsaldı(Student), 2016
- ÖZCENGİZ G., Proteomic analysis of two cephamycin C overproducer and an industrial clavulanic acid overproducer strains of streptomyces clavuligerus in comparison with the standard strain NRRL 3585, Doctorate, E.ÜNSALDI(Student), 2016
- CAN T., ÖZCENGİZ G., Pattern search in pathogenic bacterial proteins for localization and secretory systems, Doctorate, O.ÖZCAN(Student), 2015
- ÖZCENGİZ G., GÜRSEL M., A study on induction of minicell formation by FTSZ overproducing L-form E. coli, Postgraduate, İ.CEM(Student), 2014
- SOYER Y., ÖZCENGİZ G., Subtyping of Salmonella isolated from human clinical and animal non-clinical cases, as well as different food samples using pulsed field gel electrophoresis (PFGE), Postgraduate, E.BULUT(Student), 2014
- ÖZCENGİZ G., Investigation on immunoprotectivity of recombinant vaccine candidates glutamine-binding periplasmic protein and putative peptidoglycan-binding protein in mouse model, Postgraduate, M.ÇİÇEK(Student), 2014
- ÖZCENGİZ G., Development of recombinant vaccine candidates composed of LtkA from Mannheimia haemolytica A1 and PlpEC-OmpH from Pasteurella multocida A:3 against bovine respiratory disease, Postgraduate, A.ÇİRÇİR(Student), 2014
- ÖZCENGİZ G., Development of recombinant vaccine candidates composed of ltkA from manheimia haemolytica A1 and PlpEC AND OmpH from Pasteurella Multocida A:3 against bovine respiratory disease, Postgraduate, A.Çırçır(Student), 2014

ÖZCENGİZ G., Proteomics of *Phanerochaete chrysosporium* under heavy metal stress, Doctorate, V.YILDIRIM(Student), 2014

ÖZCENGİZ G., Genetic engineering of glycolytic pathway by disrupting glyceraldehyde-3-phosphate dehydrogenase gene in an industrial strain of *Streptomyces clavuligerus*, Postgraduate, İ.SERTDEMİR(Student), 2013

ÖZCENGİZ G., Proteome-wide analysis of the role of expression of bacilysin operon on idiophase physiology of *B. subtilis*, Postgraduate, M.DEMİR(Student), 2013

ÖZCENGİZ G., Towards whole cell immunoproteome and subproteomes of *Bordetella pertussis*, Doctorate, B.EMİNE(Student), 2012

ÖZCENGİZ G., Increasing clavulanic acid production both in wild type and industrial *Streptomyces clavuligerus* strains by amplification of positive regulator *clpR* gene, Postgraduate, A.MUTLU(Student), 2012

ÖZCENGİZ G., The regulatory effect of *CcaR* activator on the cephamycin C gene cluster of *Streptomyces clavuligerus*, Doctorate, A.KURT(Student), 2011

ÖZCENGİZ G., Assessment of immune protective capacity of the recombinant iron superoxide dismutase (FeSOD) from *Bordetella pertussis*, Postgraduate, A.APAK(Student), 2011

ÖZCENGİZ G., The regulatory effect of *CcaR* activator on the cephamycin C gene cluster of *Streptomyces clavuligerus*, Doctorate, A.Kurt(Student), 2011

ÖZCENGİZ G., Development of recombinant vaccines composed of PLPE and OMPH from *Pasteurella multocida* A:3, Doctorate, S.OKAY(Student), 2011

ÖZCENGİZ G., Dynamic expression of three rRNA processing and modification genes of *Phanerochaete chrysosporium* under Pb stress, Postgraduate, E.TEKİN(Student), 2011

ÖZCENGİZ G., Immune responses against the recombinant FimX and putative peptidyl-prolyl cis-trans isomerase from *Bordetella pertussis*, Postgraduate, Ç.YILMAZ(Student), 2011

ÖZCENGİZ G., Dynamic expression of three "RNA processing and modification" Genes of *Phanerochaete Chrysosporium* under Pb stress, Postgraduate, E.Tekin(Student), 2011

ÖZCENGİZ G., Assessment of immune protective capacity of the recombinant iron-superoxide dismutase (fesod) from *Bordetella pertussis*, Postgraduate, A.Apak(Student), 2011

ÖZCENGİZ G., Proteome-wide analysis of the functional roles of Bacilysin biosynthesis in *Bacillus subtilis*, Postgraduate, A.Taşkın(Student), 2010

ÖZCENGİZ G., Medium optimization for cephamycin c overproduction and comparison of antibiotic production by Ask, hom and Ask+hom recombinants of *Streptomyces clavuligerus*, Postgraduate, E.ÜNSALDI(Student), 2010

ÖZCENGİZ G., Medium optimization for cephamycin c overproduction and comparison of antibiotic production by ask, hom, and ask+hom recombinants of *Streptomyces clavuligerus*, Postgraduate, E.Ünsaldı(Student), 2010

ÖZCENGİZ G., Integration of clavamate synthase 2 gene into the chromosome of an industrial strain of *Streptomyces clavuligerus* for enhanced clavulanic acid production, Postgraduate, G.VANLI(Student), 2010

ÖZCENGİZ G., Proteome-wide analysis of functional roles of bacilysin biosynthesis in *Bacillus subtilis*, Postgraduate, A.ARAS(Student), 2010

ÖZCENGİZ G., Microorganism mediated stereoselective bio-oxidation and bio-hydrogenation reactions and thiamine pyrophosphate dependent enzyme catalyzed enantioselective acyloin reactions, Doctorate, Ş.BETÜL(Student), 2009

ÖZCENGİZ G., Analysis of cross-immune reaction between strains of *Bordetella pertussis*, Postgraduate, E.İŞCAN(Student), 2009

ÖZCENGİZ G., High-level expression of hepatitis B surface antigen in *Pichia pastoris*, its purification and immunological characterization, Postgraduate, H.SELAMOĞLU(Student), 2009

ÖZCENGİZ G., Studies on novel immunogenic proteins of *Clostridium chauvoei*, Postgraduate, D.CORAL(Student), 2009

ÖZCENGİZ G., Medium development for production of *Bacillus thuringiensis* based biopesticides, Postgraduate, O.ÖZCAN(Student), 2008

ÖZCENGİZ G., The effects of twelve quorum-sensing gene products on the expression of Bacabcde operon in *Bacillus subtilis*, Postgraduate, İ.ÖĞÜLÜR(Student), 2008

ÖZCENGİZ G., Identification of the new immunogenic proteins of *Bordetella pertussis* by immunoproteomics, Postgraduate, E.ALTINDIŞ(Student), 2007

ÖZCENGİZ G., Targeted disruption of Homoserine dehydrogenase gene in *Streptomyces clavuligerus* and its effects on cephamycin C production, Postgraduate, A.KOCA(Student), 2006

ÖZCENGİZ G., Cephamycin C production by streptomyces clavuligerus mutants impaired in regulation of aspartokinase, Postgraduate, A.ZEYİNİYEV(Student), 2006

ÖZCENGİZ G., First reference map for Phanerochaete chrysosporium proteome, Postgraduate, V.YILDIRIM(Student), 2006

ÖZCENGİZ G., Cloning of chitinase a gene (chiA) from Serratia marcescens BN10 and its expression in coleoptera-specific Bacillus thuringiensis, Postgraduate, S.OKAY(Student), 2005

ÖZCENGİZ G., Coleoptera-specific (CRY3Aa) delta-endotoxin biosynthesis by a local isolate of Bt subsp. Tenebrionis, gene cloning and characterization, Postgraduate, A.KURT(Student), 2005

ÖZCENGİZ G., Effect of homologous multiple copies of aspartokinase gene on cephamycin C biosynthesis in Streptomyces clavuligerus, Postgraduate, B.TAŞKIN(Student), 2005

ÖZCENGİZ G., Elucidation of R gene mediated yellow rust disease resistance mechanism in wheat by dual bait yeast two-hybrid analysis, Doctorate, F.YILDIRIM(Student), 2005

ÖZCENGİZ G., Characterization and identification of bacteriocins from two Lactococcus lactis subsp. lactis strains, Postgraduate, O.Akçelik(Student), 2004

ÖZCENGİZ G., Characterization and identification of bacteriocins from two Lactococcus Lactis subsp. Lactis strains, Postgraduate, O.AKÇELİK(Student), 2004

ÖZCENGİZ G., Productivity analyses in fermentations with three different biolarvicides, Postgraduate, H.ÖZÇELİK(Student), 2004

ÖZCENGİZ G., Biosorption sites for lead [Pb(II)] in Phanerochaete chrysosporium, Postgraduate, L.KAYA(Student), 2004

ÖZCENGİZ G., Productivity Analyses in Fermentations with Three Different Biolarvicides, Postgraduate, H.Özçelik(Student), 2004

ÖZCENGİZ G., Cloning and characterization of Streptomyces clavuligerus meso-diaminopimelate decarboxylase (lysA) gene, Postgraduate, Ç.YAĞCIOĞLU(Student), 2004

Sanin F. D., Özcengiz G., Investigation of Solids Residence Time on Sludge Characteristics with Specific Emphasis on Extracellular Polymers, Postgraduate, M.Lamin(Student), 2003

ÖZCENGİZ G., Investigation of solids residence time on sludge characteristics with specific emphasis on extracellular polymers, Postgraduate, M.LAMİN(Student), 2003

ÖZCENGİZ G., Response surface optimization of Bacillus thuringiensis israelensis fermentation, Postgraduate, Z.TOKCAER(Student), 2003

ÖZCENGİZ G., Proteome analyses of Pb (II), Ni (II) and Cr (III) response in Phanerochaete chrysosporium, Doctorate, S.ÖZCAN(Student), 2003

ÖZCENGİZ G., Cloning, characterization and heterologous expression of the aspartokinase and aspartate semialdehyde dehydrogenase genes from the cephamycin C producer streptomyces clavuligerus, Doctorate, S.Tunca(Student), 2002

ÖZCENGİZ G., Biological phosphorus removal in Ni(II) laden synthetic wastewater, Postgraduate, B.EREN(Student), 2002

ÖZCENGİZ G., Cassette mutagenesis to identify the genes involved in quorum-sensing pathway and bacilysin biosynthesis in bacillus subtilis., Postgraduate, S.Çetin(Student), 2002

ÖZCENGİZ G., Cloning, characterization and heterologous expression of the aspartokinase and aspartate semialdehyde dehydrogenase genes from the cephamycin C producer streptomyces clavuligerus, Doctorate, S.TUNCA(Student), 2002

ÖZCENGİZ G., Cloning, sequencing and expression of L-lactate dehydrogenase gene from Clostridium thermocellum and isolation, characterization and transformation of various cellulolytic, thermophilic, ethanol-producing bacteria, Doctorate, M.Özkan(Student), 2002

ÖZCENGİZ G., Cassette mutagenesis to identify the genes involved in quorum-sensing pathway and bacilysin biosynthesis in bacillus subtilis, Postgraduate, S.ÇETİN(Student), 2002

ÖZCENGİZ G., Enzymatic synthesis of novel dipeptides., Postgraduate, İ.TÜZÜN(Student), 2002

ÖZCENGİZ G., Cloning sequencing and expression of L-lactate dehydrogenase gene from Clostridium thermocellum and isolation, characterization and transformation of various cellulolytic, thermophilic, ethanol-producing bacteria, Doctorate, M.ÖZKAN(Student), 2002

ÖZCENGİZ G., Molecular characterization of multi-drug resistant salmonella isolates in Turkey, Postgraduate, K.GÖKSU(Student), 2001

ÖZCENGİZ G., Molecular biology and genetics of dipeptide biosynthesis: The system is an essential component of quorum-sensing global regulation, Doctorate, A.KARATAŞ(Student), 2000

ÖZCENGİZ G., Molecular biology and genetics of dipeptide biosynthesis: The system is an essential component of quorum-sensing global regulation, Doctorate, A.Karataş(Yazgan)(Student), 2000

ÖZCENGİZ G., Characterization of local salmonella enteritidis isolates of chicken, egg and human origin, Doctorate, B.İÇTEN(Student), 2000

ÖZCENGİZ G., An Optimization study on antidipteran (cryiv- type) toxin production, Postgraduate, M.Özkan(Student), 1997

ÖZCENGİZ G., An Optimization study on antidipteran (CRYIV type) toxin production, Postgraduate, M.ÖZKAN(Student), 1997

ÖZCENGİZ G., Heavy metal biosorption by phanerochaete chrysosporium, Postgraduate, N.PARLAKGÖZ(Student), 1997

ÖZCENGİZ G., Regulation of delta-endotoksin biosynthesis and endospore formation in Bacillus Thuringiensis, Postgraduate, Y.TAYANÇ(Student), 1995

ÖZCENGİZ G., Regulation of delta-endotoxin biosynthesis and endospore formation in bacillus thuringiensis 81, Postgraduate, Y.Tayanç(Student), 1995

ÖZCENGİZ G., Characterization of various rhizobium cicer strains and assesment of their symbiotic effectiveness, Postgraduate, B.İÇGEN(Student), 1994

ÖZCENGİZ G., Characterization of various Rhizobium cicer strains and assessment of their symbiotic effectiveness, Postgraduate, B.İçgen(Student), 1994

ÖZCENGİZ G., Studies on heavy metal resistance system and accumulation of metals in Kluyveroyces marxianus, Postgraduate, A.Yazgan(Student), 1993

ÖZCENGİZ G., Studies on heavy metal resistance system and accumulation of metals in kluyveromyces marxianus, Postgraduate, A.YAZGAN(Student), 1993

## Designed Lessons

Özcengiz G., Microbes and Molecular Pathogenesis , Undergraduate, 2015 - 2016

Özcengiz G., Genomics and Proteomics , Postgraduate, 2002 - 2003

Özcengiz G., Secondary Metabolites of Industrial Microorganisms, Postgraduate, 1994 - 1995

Özcengiz G., Microbial Physiology, Undergraduate, 1990 - 1991

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

- I. **Two formulations of coronavirus disease-19 recombinant subunit vaccine candidate made up of S1 fragment protein P1, S2 fragment protein P2, and nucleocapsid protein elicit strong immunogenicity in mice**  
Özcengiz E., Keser D., Özcengiz G., Çelik G., Özkul A., İnçeh F. N.  
Immunity, Inflammation and Disease, vol.10, no.12, 2022 (SCI-Expanded)
- II. **An integrative-omics analysis of an industrial clavulanic acid-overproducing Streptomyces clavuligerus**  
KURT KIZILDOĞAN A., Celik G., unsaldi E., ÖZCAN S., AYAZ GÜNER Ş., ÖZCENGİZ G.  
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.106, no.18, pp.6139-6156, 2022 (SCI-Expanded)
- III. **Comparative biological network analysis for differentially expressed proteins as a function of bacilysin biosynthesis in Bacillus subtilis**  
Kutnu M., İşlerel E. T., TUNÇBAĞ N., ÖZCENGİZ G.  
Integrative biology : quantitative biosciences from nano to macro, vol.14, no.5, pp.99-110, 2022 (SCI-Expanded)
- IV. **Proteomic Analysis of a hom-Disrupted, Cephamicin C Overproducing Streptomyces clavuligerus**  
Unsaldi E., KURT KIZILDOĞAN A., ÖZCAN S., Becher D., Voigt B., Aktas C., ÖZCENGİZ G.  
PROTEIN AND PEPTIDE LETTERS, vol.28, no.2, pp.205-220, 2021 (SCI-Expanded)
- V. **Dynamic proteomic analysis of Phanerochaete chrysosporium under copper stress**  
Okay S., Yildirim V., Buttner K., Becher D., ÖZCENGİZ G.

ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.198, pp.110694, 2020 (SCI-Expanded)

- VI. **Regulation of biofilm formation by *Salmonella Typhimurium***  
Eran Z., AKÇELİK M., Yazici B. C., ÖZCENGİZ G., AKÇELİK N.  
MOLECULAR BIOLOGY REPORTS, vol.47, no.7, pp.5041-5050, 2020 (SCI-Expanded)
- VII. **Analysis of a *bac* operon-silenced strain suggests pleiotropic effects of bacilysin in *Bacillus subtilis***  
ERTEKİN O., Kutnu M., Taskin A. A., Demir M., Karataş A., ÖZCENGİZ G.  
JOURNAL OF MICROBIOLOGY, vol.58, no.4, pp.297-313, 2020 (SCI-Expanded)
- VIII. ***Bacillus subtilis* overproduces industrially important extracellular enzymes upon the targeted deletion of bacilysin biosynthetic operon**  
Ozcengiz C., Aytakin S., Islerel E. T., Aktas C.  
NEW BIOTECHNOLOGY, vol.44, 2018 (SCI-Expanded)
- IX. **Proteome-wide analysis of pleiotropic effects of targeted homoserine dehydrogenase (*hom*) gene disruption in *Streptomyces clavuligerus***  
Zcengiz G., Nsaldi E., Aktas C., ERTEKİN O., KURT KIZILDOĞAN A., Zcan S.  
NEW BIOTECHNOLOGY, 2018 (SCI-Expanded)
- X. **Systemic analysis of multiple coordinated changes associated with clavulanic acid overproduction in an industrial strain of *S. clavuligerus***  
Özcengiz G., Kurt Kızıldoğan A.  
New Biotechnology, vol.44, pp.109, 2018 (SCI-Expanded)
- XI. **Proteome-wide analysis of pleiotropic effects of targeted homoserine dehydrogenase (*hom*) gene disruption in *Streptomyces clavuligerus***  
Özcengiz G., Özcan S., Kurt Kızıldoğan A.  
New Biotechnology, vol.44, pp.109, 2018 (SCI-Expanded)
- XII. **Systemic analysis of multiple coordinated changes associated with clavulanic acid overproduction in an industrial strain of *S-clavuligerus***  
Zcengiz G., Nsaldi E., Aktas C., ERTEKİN O., Zcan S., KURT KIZILDOĞAN A.  
NEW BIOTECHNOLOGY, 2018 (SCI-Expanded)
- XIII. **Recombinant outer membrane protein Q and putative lipoprotein from *Bordetella pertussis* inducing strong humoral response were not protective alone in the murine lung colonization model**  
Yilmaz C., Ozcengiz E., ÖZCENGİZ G.  
TURKISH JOURNAL OF BIOLOGY, vol.42, no.2, pp.123-131, 2018 (SCI-Expanded)
- XIV. **Antibiotics: Pharmacokinetics, toxicity, resistance and multidrug efflux pumps**  
Yilmaz C., ÖZCENGİZ G.  
BIOCHEMICAL PHARMACOLOGY, vol.133, pp.43-62, 2017 (SCI-Expanded)
- XV. **Genetic engineering of an industrial strain of *Streptomyces clavuligerus* for further enhancement of clavulanic acid production**  
KURT KIZILDOĞAN A., Vanli Jaccard G., Mutlu A., Sertdemir I., ÖZCENGİZ G.  
TURKISH JOURNAL OF BIOLOGY, vol.41, no.2, pp.342-356, 2017 (SCI-Expanded)
- XVI. **Immunogenicity and protective efficacy of recombinant iron superoxide dismutase protein from *Bordetella pertussis* in mice models**  
Yilmaz C., Apak A., Ozcengiz E., ÖZCENGİZ G.  
MICROBIOLOGY AND IMMUNOLOGY, vol.60, no.11, pp.717-724, 2016 (SCI-Expanded)
- XVII. **Biochemistry, genetics and regulation of bacilysin biosynthesis and its significance more than an antibiotic**  
ÖZCENGİZ G., ÖĞÜLÜR İ.  
NEW BIOTECHNOLOGY, vol.32, no.6, pp.612-619, 2015 (SCI-Expanded)
- XVIII. **Proteome-wide analysis of the functional roles of bacilysin biosynthesis in *Bacillus subtilis***  
ÖZCENGİZ G., Taskin A. A., Demir M., Karatas A. Y.  
NEW BIOTECHNOLOGY, vol.31, 2014 (SCI-Expanded)
- XIX. **Pertussis Vaccines: State-of-the-Art and Future Trends**  
Tefon B. E., Ozcengiz E., ÖZCENGİZ G.

- CURRENT TOPICS IN MEDICINAL CHEMISTRY, vol.13, no.20, pp.2581-2596, 2013 (SCI-Expanded)
- XX. **Role of the cmcH-ccaR intergenic region and ccaR overexpression in cephamycin C biosynthesis in *Streptomyces clavuligerus***  
Kurt A., Alvarez-Alvarez R., Liras P., ÖZCENGİZ G.  
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.97, no.13, pp.5869-5880, 2013 (SCI-Expanded)
- XXI. **Recent advances in the biosynthesis of penicillins, cephalosporins and clavams and its regulation**  
ÖZCENGİZ G., Demain A. L.  
BIOTECHNOLOGY ADVANCES, vol.31, no.2, pp.287-311, 2013 (SCI-Expanded)
- XXII. **Real-Time PCR Investigation of the Dynamic Expression of Three "RNA Processing and Modification" Genes of *Phanerochaete chrysosporium* Exposed to Lead**  
Tekin E., İçgen B., Özcengiz G.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.90, pp.27-33, 2013 (SCI-Expanded)
- XXIII. **Immunogenicity and protective efficacy of the recombinant *Pasteurella lipoprotein E* and outer membrane protein H from *Pasteurella multocida* A:3 in mice**  
Okay S., Ozcengiz E., GÜRSEL İ., ÖZCENGİZ G.  
RESEARCH IN VETERINARY SCIENCE, vol.93, no.3, pp.1261-1265, 2012 (SCI-Expanded)
- XXIV. **Cloning and expression of the *Clostridium thermocellum* L-lactate dehydrogenase gene in *Escherichia coli* and enzyme characterization**  
Ozkan M., Yilmaz E., Lynd L., Ozcengiz G.  
CANADIAN JOURNAL OF MICROBIOLOGY, vol.50, no.10, pp.845-851, 2004 (SCI-Expanded)
- XXV. **Cloning, characterization and heterologous expression of the aspartokinase and aspartate semialdehyde dehydrogenase genes of cephamycin C-producer *Streptomyces clavuligerus***  
Tunca S., Yilmaz E., Piret J., Liras P., Ozcengiz G.  
RESEARCH IN MICROBIOLOGY, vol.155, no.7, pp.525-534, 2004 (SCI-Expanded)
- XXVI. **2-Amino-N-(2-furylmethyl)propanamide as a novel alanyl-glycine equivalent synthesized by bacilysin synthetase**  
Tuzun I., Karatas A., Sesenoglu O., Demir A., Ozcengiz G.  
ENZYME AND MICROBIAL TECHNOLOGY, vol.33, no.5, pp.725-728, 2003 (SCI-Expanded)
- XXVII. **The effects of insertional mutations in comQ, comP, srfA, spo0H, spo0A and abrB genes on bacilysin biosynthesis in *Bacillus subtilis***  
Karatas A., Cetin S., Ozcengiz G.  
BIOCHIMICA ET BIOPHYSICA ACTA-GENE STRUCTURE AND EXPRESSION, vol.1626, pp.51-56, 2003 (SCI-Expanded)
- XXVIII. **Nutritional and cultural parameters influencing antidipteran delta endotoxin production**  
ÖZKAN M., DİLEK F. B., YETİŞ Ü., ÖZCENGİZ G.  
Research In Microbiology, pp.49-53, 2003 (SCI-Expanded)
- XXIX. **Colicinogeny in local isolates of salmonellae and plasmid transfer studies**  
Elpek G., İçgen B., Ozcengiz G.  
FOLIA MICROBIOLOGICA, vol.48, pp.257-260, 2003 (SCI-Expanded)
- XXX. **Colicinogeny in local isolates of salmonellae and plasmid transfer studies**  
Elpek G., İçgen B., Ozcengiz G.  
FOLIA MICROBIOLOGICA, no.2, pp.257-260, 2003 (SCI-Expanded)
- XXXI. **Regulation of crystal protein biosynthesis by *Bacillus thuringiensis*: II. Effects of carbon and nitrogen sources.**  
İçgen Y., İçgen B., Ozcengiz G.  
Research in microbiology, vol.153, pp.605-9, 2002 (SCI-Expanded)
- XXXII. **Regulation of crystal protein biosynthesis by *Bacillus thuringiensis*: I. Effects of mineral elements and pH**  
İCĞEN Y., İçgen B., ÖZCENGİZ G.  
RESEARCH IN MICROBIOLOGY, no.9, pp.599-604, 2002 (SCI-Expanded)
- XXXIII. **Regulation of crystal protein biosynthesis by *Bacillus thuringiensis*: I. Effects of mineral elements and pH.**

- İçgen Y., İçgen B., Özcengiz G.  
Research in microbiology, vol.153, pp.599-604, 2002 (SCI-Expanded)
- XXXIV. **Characterization of Salmonella enteritidis isolates of chicken, egg and human origin from Turkey**  
İcgen B., Gurakan G. C., Özcengiz G.  
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- XXXV. **Evaluation of symbiotic effectiveness of various Rhizobium cicer strains**  
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Özcengiz G., TUBITAK Project, Streptomyces clavuligerus'da ccaR regülatör geninin sefamisin C biyosentezine olan etkisinin transkripsiyonel ve proteom ölçekli analizi, 2010 - 2012

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## Activities in Scientific Journals

FRONTIERS IN MICROBIOLOGY, Committee Member, 2021 - Continues

Bioengineered, Committee Member, 2021 - Continues

## Scientific Refereeing

FRONTIERS IN PUBLIC HEALTH, SCI Journal, September 2022

RESEARCH IN MICROBIOLOGY, SCI Journal, August 2022

TÜBA Project, Istanbul University, Turkey, May 2022

Bioengineered, SCI Journal, December 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021

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Bioengineered, SCI Journal, July 2021

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Development Agency, Fulbright, Turkey, March 2021

## **Metrics**

Publication: 142

Citation (WoS): 1382

Citation (Scopus): 1552

H-Index (WoS): 21

H-Index (Scopus): 22

## **Scholarships**

Collaborative Research Grant , Other Government Agencies, 1997 - 1997

Visiting Scientist, Other Government Agencies, 1995 - 1996

Postdoc Scholarship, Other Government Agencies, 1990 - 1990

Collaborative Research Grant , Other Government Agencies, 1988 - 1988

Lisans Seviyede Fakülte Birincisi , Foundation, 1978 - 1980

## **Awards**

Özcengiz G., High Academic Performance Award, Metu, June 2003

Özcengiz G., High Academic Performance Award, Metu, June 2001

Özcengiz G., High Academic Performance Award, Metu, June 2000

Özcengiz G., First honor in B. Sc. , Hacettepe University, June 1988

## **Non Academic Experience**

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