

# **Prof. Dr. HÜSEYİN AVNİ ÖKTEM**

## **Kişisel Bilgiler**

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## **Eğitim Bilgileri**

Doktora, Jozsef Attila Üniversitesi, Biyokimya, Macaristan 1987 - 1990

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyokimya (YL) (Tezli), Türkiye 1985 - 1987

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, Türkiye 1981 - 1985

## **Yaptığı Tezler**

Doktora, Molecular Characterization of mu Opioid Receptors by Affinity Labeling, Jozsef Attila Üniversitesi, Biyokimya, 1990

Yüksek Lisans, Effect of membrane fluidity on binding of 125I-Insulin to sheep liver membrane receptors, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Biyokimya (YL) (Tezli), 1987

## **Araştırma Alanları**

Yaşam Bilimleri

## **Akademik Unvanlar / Görevler**

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 2017 - Devam Ediyor

Prof. Dr., Konya Gıda Ve Tarım Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, 2015 - 2017

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 2000 - 2014

Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Moleküler Biyoloji Ve Genetik Bölümü, 1995 - 2000

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 1993 - 1995

Öğretim Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 1992 - 1993

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 1986 - 1992

## **Akademik İdari Deneyim**

Rektör, Konya Gıda Ve Tarım Üniversitesi, Rektörlük, 2015 - 2017

Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Biyolojik Bilimler Bölümü, 1997 - 2000

## **Yönetilen Tezler**

- ÖKTEM H. A., Assessment of antimicrobial and coagulant activities of CBRN decontamination materials, Yüksek Lisans, B.ÇAĞRI(Öğrenci), 2022
- ÖKTEM H. A., E.coli tanısı için nükleik asit kaplanmış silika nanoparçacık tabanlı yatay akış testinin geliştirilmesi, Yüksek Lisans, D.Bingöl(Öğrenci), 2019
- ÖKTEM H. A., Genetiği değiştirilmiş organizma (GDO) tespiti için ilmiğe dayalı izotermal çoğaltma (LAMP) tabanlı algılama platformu geliştirilmesi, Yüksek Lisans, A.Nazlı(Öğrenci), 2019
- ÖKTEM H. A., Borik asid, siyanür ve parakuat tespiti için hücre esashı biyoraportörlerin geliştirilmesi, Yüksek Lisans, M.Suluova(Öğrenci), 2019
- ÖKTEM H. A., İnorganik arsenik ve kadmiyum tayini için floresan tam hücre bakteriyel biyoraportörlerin geliştirilmesi., Doktora, E.Elçin(Öğrenci), 2019
- ÖKTEM H. A., Isıl dirençli yeşil mikroalgelerin antioksidan kapasitesive biyoaktif bileşikleri, Doktora, O.Bulut(Öğrenci), 2018
- ÖKTEM H. A., YÜCEL A. M., Development of nucleic acid coated nanoparticle based lateral flow assay for *Salmonella* detection, Yüksek Lisans, M.KAAN(Öğrenci), 2017
- ÖKTEM H. A., Evaluation of molasses and vinasse performance for lipid production from green microalgae, Doktora, I.ENGİN(Öğrenci), 2017
- ÖKTEM H. A., Development of immunoaffinity based detection platforms for food pathogens, Doktora, D.ÇAM(Öğrenci), 2016
- ÖKTEM H. A., YÜCEL A. M., Yenidoğan galaktosemi tarama kitlerinin geliştirilmesi, Yüksek Lisans, S.Yağmur(Öğrenci), 2015
- YÜCEL A. M., ÖKTEM H. A., Transformation of tobacco with a nac type transcription factor, TaNAC69-1 and characterization of transgenic plants via molecular and physiological techniques, Doktora, A.EROĞLU(Öğrenci), 2015
- ÖKTEM H. A., YÜCEL A. M., Development of newborn Galactosemia screening kits, Yüksek Lisans, S.YAĞMUR(Öğrenci), 2015
- ÖKTEM H. A., YÜCEL A. M., Bio-fuel production from microalgae, Doktora, M.ONAY(Öğrenci), 2015
- ÖKTEM H. A., Development of diagnostic platforms for single nucleotide polymorphism detection, Doktora, O.AKÇA(Öğrenci), 2014
- ÖKTEM H. A., Öktem H., Hypericum perforatuml. dokularından hiperisin eldesinin optimizasyonu ve hiperisinin boyalı duyarlı güneş hücrelerinde uygulanabilirliğinin değerlendirilmesi, Yüksek Lisans, Ö.Aktuna(Öğrenci), 2014
- ÖKTEM H. A., Development of nucleic acid based lateral flow immunochromatic test platform for *Salmonella* detection, Yüksek Lisans, O.BULUT(Öğrenci), 2014
- ÖKTEM H. A., Development of sandwich type nucleic acid array platform for the detection of microRNAs in breast cancer, Yüksek Lisans, S.ATILGAN(Öğrenci), 2014
- ÖKTEM H. A., Salmonella tanısı için nükleik asit tabanlı yatay akış immünokromatografik test platformunun geliştirilmesi., Yüksek Lisans, O.Bulut(Öğrenci), 2014
- ÖKTEM H. A., Generation of aptamer against *Salmonella* serovar enteritidis and development of aptamer-based capillary biosensor, Doktora, C.BAYRAÇ(Öğrenci), 2014
- ÖKTEM H. A., Development of reference materials for GMO detection, Yüksek Lisans, B.BİRROL(Öğrenci), 2014
- ÖKTEM H. A., Optimization of hypericin extraction from *Hypericum perforatum* L. tissues and evaluation of its applicability in dye-sensitized solar cells, Yüksek Lisans, Ö.AKTUNA(Öğrenci), 2014
- ÖKTEM H. A., Development of nanoparticle and nanotextile based decontamination systems for biological agents, Yüksek Lisans, Ö.KALMAN(Öğrenci), 2013
- ÖKTEM H. A., Bor taşıyıcısı HvBor1a geninin tübüne (*Nicotiana tabacum*) aktarılması ve transgenik bitkilerin analizleri, Yüksek Lisans, D.SELİN(Öğrenci), 2012
- ÖKTEM H. A., Microarray based expression profiling of barley under boron stress and cloning of 3H boron tolerance gene, Doktora, M.TUFAN(Öğrenci), 2012
- ÖKTEM H. A., Development of salt resistant transgenic plants by using TaNHX1 and TaSTR genes, Doktora, M.KAVAS(Öğrenci), 2011
- ÖKTEM H. A., Isolation and characterization of taq DNA polymerase and optimization and validation of newly designed

thermal cyclers, Yüksek Lisans, L.YILDIZ(Öğrenci), 2011

ÖKTEM H. A., Transformation of potato with MYB4 transcription factor and evaluation of abiotic stress tolerance and gene expression profiles in transgenic plants, Doktora, G.KALEMTAŞ(Öğrenci), 2011

ÖKTEM H. A., In vitro selection of DNA aptamers to Glioblastoma multiforme, Doktora, A.TAHİR(Öğrenci), 2011

ÖKTEM H. A., Expression analysis of NAC type transcription factors on wheat seedlings under abiotic stress conditions, Doktora, M.CENGİZ(Öğrenci), 2011

ÖKTEM H. A., ÖZEN C., Development of a sandwich-type dna array platform for the detection of label-free oligonucleotide targets, Yüksek Lisans, S.CANSIZ(Öğrenci), 2010

ÖKTEM H. A., Öktem H., İşaretlenmemiş PZR ürünlerini kullanarak bitkilerden transgenik elementlerin tespiti için oligonukleotit tabanlı sandviç dizi platformunun geliştirilmesi, Yüksek Lisans, F.Gül(Öğrenci), 2010

ÖKTEM H. A., Optimization of mature embryo based regeneration and genetic transformation of Turkish wheat cultivars, Yüksek Lisans, A.BATTAL(Öğrenci), 2010

ÖKTEM H. A., Development of an oligonucleotide based sandwich array platform for the detection of transgenic elements from plant sources using label-free PCR products, Yüksek Lisans, F.GÜL(Öğrenci), 2010

ÖKTEM H. A., Development of acetylcholinesterase biosensor for the detection of pesticides, Yüksek Lisans, M.KAVRUK(Öğrenci), 2010

ÖKTEM H. A., ÖZEN C., The development of alkaline phosphatase based paper bioreporter for evaluation of milk pasteurization, Yüksek Lisans, C.KARAKAŞ(Öğrenci), 2009

ÖKTEM H. A., Effect of drought and salt stresses on antioxidant defense system and physiology of lentil (*Lens culinaris M.*) seedlings, Yüksek Lisans, O.ERCAN(Öğrenci), 2008

ÖKTEM H. A., Development of paper type tyrosinase biosensor, Yüksek Lisans, Ö.ŞENYURT(Öğrenci), 2008

ÖKTEM H. A., Regeneration of lentil (*Lens culinaris Medik*) and genetic transformation by using Agrobacterium tumefaciens-mediated gene transfer, Doktora, U.ÇELİKKOL(Öğrenci), 2008

ÖKTEM H. A., Effect of drought and salt stresses on the gene expression levels of antioxidant enzymes in lentil (*Lens culinaris M.*) seedlings, Yüksek Lisans, E.AKSOY(Öğrenci), 2008

ÖKTEM H. A., Development of QCM based DNA biosensors for detection of genetically modified organisms, Doktora, İ.KARAMOLLAOĞLU(Öğrenci), 2007

ÖKTEM H. A., ERSON BENSAÑ A. E., Transformation of *Nicotiana tabacum* plants with Na<sup>+</sup>/H<sup>+</sup> antiporter (*AtNHX1*) gene isolated from *Arabidopsis thaliana* for evaluation of salt tolerance, Yüksek Lisans, F.AYSİN(Öğrenci), 2007

ÖKTEM H. A., Plazmit DNA saflaştırılması işleminde kullanılmak üzere magnetik afinité mikrokürelerin hazırlanması, Yüksek Lisans, M.ÜRÜN(Öğrenci), 2006

ÖKTEM H. A., Antimikrobiyal pfpl geninin tübüne aktarılması ve transgenik bitkilerin geliştirilmesi, Yüksek Lisans, T.Tuncer(Öğrenci), 2006

ÖKTEM H. A., Identification and characterization of hydrolytic enzymes of sunn pest (*eurygaster integriceps*) and cotton bollworm (*helicoverpa armigera*), Doktora, E.ÖZGÜR(Öğrenci), 2006

ÖKTEM H. A., Optimization of tissue culture, regeneration and Agrobacterium mediated transformation parameters in winter wheat cultivars (*Kızıltan-91* and *Bezostaja-01*), Yüksek Lisans, M.KAVAS(Öğrenci), 2005

ÖKTEM H. A., Nohutta (*cicer arietinum L. cv. Gökçe*) seçme koşulları ve agrobakteriye dayalı transformasyonun optimizasyonu, Yüksek Lisans, M.Tufan(Öğrenci), 2005

ÖKTEM H. A., Lipitlerin opioid reseptörlerinin bağlanma özellikleri üzerine etkisi, Doktora, S.Apaydın(Öğrenci), 2005

ÖKTEM H. A., Extension of flower longevity in transgenic plants via antisense blockage of ethylene biosynthesis, Yüksek Lisans, B.DEÇANI(Öğrenci), 2004

ÖKTEM H. A., Optimization of a regeneration and transformation system for lentil (*Lens culinaris M.*,cv.*Sultan-I*) cetyledonary petioles and epicoyyls, Yüksek Lisans, A.TAHİR(Öğrenci), 2004

ÖKTEM H. A., Evaluation of salt tolerance in STO transformed *Arabidopsis thaliana* and *Nicotiana tabacum* plants, Doktora, F.SELÇUK(Öğrenci), 2004

ÖKTEM H. A., Optimization of regeneration and Agrobacterium mediated transformation of wheat (*Triticum aestivum* L.cv. *Yüregir 89*), Yüksek Lisans, D.DEMİRBAŞ(Öğrenci), 2004

ÖKTEM H. A., Mercimek kotiledon petiollerinde rejenerasyon ve transformasyon sistemlerinin optimizasyonu, Yüksek Lisans, A.Tahir(Öğrenci), 2004

ÖKTEM H. A., Optimisation of Agrobacterium mediated gene transfer and micrografting systems in lentil (*Lens culinaris*

- Medik), Yüksek Lisans, H.KAMÇI(Öğrenci), 2004
- ÖKTEM H. A., Optimization of regeneration and transformation conditions for chickpea (*Cicer arietinum L.*), Doktora, M.AKBULUT(Öğrenci), 2003
- ÖKTEM H. A., Optimization of an integrated bombardment and agrobacterium infiltration based transformation system for lentil, Yüksek Lisans, U.ÇELİKKOL(Öğrenci), 2002
- ÖKTEM H. A., Effect of boron toxicity on antioxidant enzyme activities of sensitive and resistant barley cultivars, Yüksek Lisans, E.KARABAL(Öğrenci), 2002
- ÖKTEM H. A., Genetic transformation of potato with P5CS gene and evaluation of salt resistance in transgenic plants, Yüksek Lisans, M.SİMİN(Öğrenci), 2002
- ÖKTEM H. A., Öktem H., Genetic transformation of tobacco with HS1(PR01) gene and evaluation of nematode resistance in transgenic plants, Yüksek Lisans, Ç.Altun(Öğrenci), 2001
- ÖKTEM H. A., Effect of salt stress on the antioxidant defense system in lentil (*Lens culinaris M.*) seedlings, Yüksek Lisans, E.BANDEOĞLU(Öğrenci), 2001
- ÖKTEM H. A., Genetic manipulation of tobacco against osmotic stress via proline overproduction, Doktora, F.EYİDOĞAN(Öğrenci), 2001
- ÖKTEM H. A., Genetic transformation of tobacco with Hs1(pro-1) gene and evaluation of nematode resistance in transgenic plants, Yüksek Lisans, Ç.ALTUN(Öğrenci), 2001
- ÖKTEM H. A., Agrobacterium-mediated genetic transformation and microtuberization of potato (*solanum tuberosum L.*), Yüksek Lisans, İ.KARAMOLLAĞLU(Öğrenci), 2000
- ÖKTEM H. A., Öktem H., Isolation and biochemical characterization of α-Amylase inhibitor from common bean (*Phaseolus vulgaris L.*), Yüksek Lisans, Z.Akyol(Öğrenci), 2000
- ÖKTEM H. A., Physiological and biochemical aspects of boron toxicity in wheat and barley, Doktora, H.MAHBOOBİ(Öğrenci), 2000
- ÖKTEM H. A., Genetic diversity of wheat gluten proteins and their importance in dough making properties of flour, Doktora, V.CENGİZ(Öğrenci), 2000
- ÖKTEM H. A., Isocation and biochemical characterization of alfa-amylase inhibitör from common bean (*phaseolus vulgaris L.*), Yüksek Lisans, Z.AKYOL(Öğrenci), 2000
- HAMAMCI H., ÖKTEM H. A., Optimisation of tissue culture conditions and gene transfer studies in lentil, Doktora, M.MAHMOUDİAN(Öğrenci), 2000
- ÖKTEM H. A., Öktem H., Biochemical and physiological aspects of boron toxicity in wheat and barley, Doktora, H.Mahboobi(Öğrenci), 2000
- ÖKTEM H. A., F1-F3 progeny analysis of herbicide resistant transgenic tobacco plant, Yüksek Lisans, A.ARPAT(Öğrenci), 1999
- ÖKTEM H. A., HAMAMCI H., F-F progeny analysis of herbicide resistant transgenic tobacco plant, Yüksek Lisans, A.Bulak(Öğrenci), 1999
- ÖKTEM H. A., Development of phosphinotricin resistant transgenic tobacco plants by detoxification and overexpression approaches, Yüksek Lisans, B.MELTEM(Öğrenci), 1999
- ÖKTEM H. A., Production of microtubers in potato (*Solanum tuberosum l.*), Yüksek Lisans, S.BEYAZOVA(Öğrenci), 1999
- ÖKTEM H. A., Öktem H., Identification of inositol 1,4,5-Trisphosphate(IP) receptors in wheat(*triticum aestivum*), Doktora, N.Maki(Öğrenci), 1998
- ÖKTEM H. A., Öktem H., Regeneration and agrobacterium mediated transformation studies in different tomato (*Lycopersicon esculentum Mill*) cultivars, Yüksek Lisans, Y.BÜLBÜL(Öğrenci), 1998
- ÖKTEM H. A., Regeneration and agrobacterium mediated transformation studies in different tomato cultivars, Yüksek Lisans, Y.BÜLBÜL(Öğrenci), 1998
- ÖKTEM H. A., Effect of arachidonic acid on binding properties of opioid receptors, Yüksek Lisans, S.APAYDIN(Öğrenci), 1997
- ÖKTEM H. A., Öktem H., Agrobacterium mediated gene transfer in tobacco, Yüksek Lisans, M.Mahmoudian(Öğrenci), 1995
- ÖKTEM H. A., Characterization of lipid composition of wheat varieties under stress conditions, Yüksek Lisans, A.SOYDAN(Öğrenci), 1995

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Fluorescent silica nanoparticles as nano-chemosensors for the sequential detection of Pb<sup>2+</sup> ions and bacterial-spore biomarker dipicolinic acid (DPA) in aqueous solution**  
Cetinkaya Y. N., Bulut O., ÖKTEM H. A., Yilmaz M. D.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.303, 2023 (SCI-Expanded)
- II. **Establishment of Stable Genetic Transformation Conditions for Novel Thermotolerant *Scenedesmus* sp. (*Chlorophyta*)**  
Akin D., Sönmez Ç., YÜCEL M., ÖKTEM H. A.  
Turkish Journal of Fisheries and Aquatic Sciences, cilt.23, sa.11, 2023 (SCI-Expanded)
- III. **Designing of rapid assay for the detection of RdRp/Orf1ab specific to SARS-CoV-2**  
Derin D. Ç., Gültekin E., Taşkin I. İ., OTLU B., ÖKTEM H. A.  
Journal of Virological Methods, cilt.320, 2023 (SCI-Expanded)
- IV. **Optimization of whole-cell bacterial bioreporter immobilization on electrospun cellulose acetate (CA) and polycaprolactone (PCL) fibers for arsenic detection**  
Arik N., Elcin E., Tezcaner A., Oktem H. A.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.195, sa.6, 2023 (SCI-Expanded)
- V. **Formaldehyde biosensing in air using fluorescent bacterial bioreporter cells**  
Elcin E., Ayaydin F., Öktem H. A.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.103, sa.20, ss.8846-8864, 2023 (SCI-Expanded)
- VI. **Biosensing of arsenic by whole-cell bacterial bioreporter immobilized on polycaprolactone (PCL) electrospun fiber**  
Arik N., Elcin E., TEZCANER A., ÖKTEM H. A.  
Environmental Technology (United Kingdom), 2023 (SCI-Expanded)
- VII. **Hindakia tetrachotoma ME03 (*Chlorophyta*) has high phenolic content, antioxidant capacity, and attenuates H<sub>2</sub>O<sub>2</sub>-induced oxidative stress and apoptosis in human cells**  
Bulut O., Sönmez Ç., ÖKTEM H. A.  
Phycologia, cilt.62, sa.4, ss.293-302, 2023 (SCI-Expanded)
- VIII. **Inorganic Cadmium Detection Using a Fluorescent Whole-Cell Bacterial Bioreporter**  
Elcin E., ÖKTEM H. A.  
ANALYTICAL LETTERS, cilt.53, sa.17, ss.2715-2733, 2020 (SCI-Expanded)
- IX. **A highly substituted and fluorescent aromatic-fused imidazole derivative that shows enhanced antibacterial activity against methicillin-resistant *Staphylococcus aureus* (MRSA)**  
Bulut O., ÖKTEM H. A., Yilmaz M. D.  
JOURNAL OF HAZARDOUS MATERIALS, cilt.399, 2020 (SCI-Expanded)
- X. **Immobilization of fluorescent bacterial bioreporter for arsenic detection**  
ELÇİN E., ÖKTEM H. A.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, cilt.18, sa.1, ss.137-148, 2020 (SCI-Expanded)
- XI. **Whole-cell fluorescent bacterial bioreporter for arsenic detection in water**  
Elcin E., Oktem H. A.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, cilt.16, sa.10, ss.5489-5500, 2019 (SCI-Expanded)
- XII. **A Monostyryl Boradiazaindacene (BODIPY)-based lanthanide-free colorimetric and fluorogenic probe for sequential sensing of copper (II) ions and dipicolinic acid as a biomarker of bacterial endospores**  
Cetinkaya Y., Yurt M. N. Z., ÖKTEM H. A., Yilmaz M. D.  
JOURNAL OF HAZARDOUS MATERIALS, cilt.377, ss.299-304, 2019 (SCI-Expanded)
- XIII. **Phenolic compounds, carotenoids, and antioxidant capacities of a thermo-tolerant *Scenedesmus* sp. (*Chlorophyta*) extracted with different solvents**

- Bulut O., Akin D., Sonmez C., Oktem A., Yucel M., ÖKTEM H. A.  
JOURNAL OF APPLIED PHYCOLOGY, cilt.31, sa.3, ss.1675-1683, 2019 (SCI-Expanded)
- XIV. **Molecular detection of *Bacillus anthracis*: evaluation of the efficiency of DNA extraction and a novel dry PCR**  
Ortatanli M., Kenar L., Sezigen S., Eyison K., Oktem H. A.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, cilt.44, sa.2, ss.147-152, 2019 (SCI-Expanded)
- XV. **Transition Metal Chelated Biopolymer Coated Mesoporous Silica Nanoparticles as Highly Efficient, Stable, and Recyclable Nanocatalysts for Catalytic Bleaching**  
Yurdakul M., Oktem H. A., Yilmaz M. D.  
CHEMISTRYSELECT, cilt.4, sa.7, ss.2084-2088, 2019 (SCI-Expanded)
- XVI. **Development of rapid dipstick assay for food pathogens, *Salmonella*, by optimized parameters**  
ÇAM D., ÖKTEM H. A.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, cilt.56, sa.1, ss.140-148, 2019 (SCI-Expanded)
- XVII. **Heterotrophic growth and oil production from *Micractinium sp.* ME05 using molasses**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
JOURNAL OF APPLIED PHYCOLOGY, cilt.30, sa.6, ss.3483-3492, 2018 (SCI-Expanded)
- XVIII. **Enhancement of Heterotrophic Biomass Production by *Micractinium sp* ME05**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
WASTE AND BIOMASS VALORIZATION, cilt.9, sa.5, ss.811-820, 2018 (SCI-Expanded)
- XIX. **Eriochrome Black T-Eu<sup>3+</sup> Complex as a Ratiometric Colorimetric and Fluorescent Probe for the Detection of Dipicolinic Acid, a Biomarker of Bacterial Spores**  
Yilmaz M. D., ÖKTEM H. A.  
ANALYTICAL CHEMISTRY, cilt.90, sa.6, ss.4221-4225, 2018 (SCI-Expanded)
- XX. **Target-specific delivery of doxorubicin to human glioblastoma cell line via ssDNA aptamer**  
BAYRAÇ T., Akca O. E., Eyidogan F. I., ÖKTEM H. A.  
JOURNAL OF BIOSCIENCES, cilt.43, sa.1, ss.97-104, 2018 (SCI-Expanded)
- XXI. **Evaluation of heterotrophic and mixotrophic cultivation of novel *Micractinium sp* ME05 on vinasse and its scale up for biodiesel production**  
Engin I. K., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
BIORESOURCE TECHNOLOGY, cilt.251, ss.128-134, 2018 (SCI-Expanded)
- XXII. **Ratiometric fluorescence detection of an anthrax biomarker with Eu<sup>3+</sup>-chelated chitosan biopolymers**  
Donmez M., ÖKTEM H. A., Yilmaz M. D.  
CARBOHYDRATE POLYMERS, cilt.180, ss.226-230, 2018 (SCI-Expanded)
- XXIII. **DNA aptamer-based colorimetric detection platform for *Salmonella Enteritidis***  
BAYRAÇ C., EYİDOĞAN F., ÖKTEM H. A.  
BIOSENSORS & BIOELECTRONICS, cilt.98, ss.22-28, 2017 (SCI-Expanded)
- XXIV. **Evaluation of *Staphylococcus aureus* DNA aptamer by enzyme-linked aptamer assay and isothermal titration calorimetry**  
BAYRAÇ C., Oktem H. A.  
JOURNAL OF MOLECULAR RECOGNITION, cilt.30, sa.2, 2017 (SCI-Expanded)
- XXV. **Physiological, Biochemical, and Transcriptomic Responses to Boron Toxicity in Leaf and Root Tissues of Contrasting Wheat Cultivars**  
Kayihan C., Oz M. T., EYİDOĞAN F., Yucel M., ÖKTEM H. A.  
PLANT MOLECULAR BIOLOGY REPORTER, cilt.35, sa.1, ss.97-109, 2017 (SCI-Expanded)
- XXVI. **Optimizations needed for lateral flow assay for rapid detection of pathogenic *E. coli***  
ÇAM D., ÖKTEM H. A.  
TURKISH JOURNAL OF BIOLOGY, cilt.41, sa.6, ss.954-968, 2017 (SCI-Expanded)
- XXVII. **Evaluation of novel thermo-resistant *Micractinium* and *Scenedesmus* sp for efficient biomass and lipid production under different temperature and nutrient regimes**  
Sonmez C., ELÇİN E., Akin D., Oktem H. A., YÜCEL A. M.

- BIORESOURCE TECHNOLOGY, cilt.211, ss.422-428, 2016 (SCI-Expanded)
- XXVIII. Enhanced salt tolerance of transgenic tobacco expressing a wheat salt tolerance gene  
KAVAS M., BALOĞLU M. C., YÜCEL A. M., ÖKTEM H. A.  
TURKISH JOURNAL OF BIOLOGY, cilt.40, sa.4, ss.727-735, 2016 (SCI-Expanded)
- XXIX. Small molecule detection by lateral flow strips via aptamer-gated silica nanoprobe  
Ozalp V. C., Cam D., Hernandez F. J., Hernandez L. I., Schafer T., ÖKTEM H. A.  
ANALYST, cilt.141, sa.8, ss.2595-2599, 2016 (SCI-Expanded)
- XXX. Changes in oxidative damage and antioxidant enzyme activities of barley (*Hordeum vulgare* L.) cultivars exposed to rewarming upon freezing stress  
Erkal N. A., Kayihan C., ÖKTEM H. A., YÜCEL A. M., EYİDOĞAN F.  
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGİSİ, cilt.40, sa.5, ss.363-369, 2015 (SCI-Expanded)
- XXXI. Generating salt-tolerant *Nicotiana tabacum* and identification of stress-responsive miRNAs in transgenics  
AYSİN F., Erson-Bensan A. E., Eyidogan F., ÖKTEM H. A.  
TURKISH JOURNAL OF BOTANY, cilt.39, sa.5, ss.757-769, 2015 (SCI-Expanded)
- XXXII. Lentil (<i>Lens culinaris</i> Medik)  
Akcay U. C., Yucel M., ÖKTEM H. A.  
AGROBACTERIUM PROTOCOLS, VOL 1, 3RD EDITION, cilt.1223, ss.265-274, 2015 (SCI-Expanded)
- XXXIII. ANTIOXIDANT RESPONSES OF PEANUT (*ARACHIS HYPOGAEA* L.) SEEDLINGS TO PROLONGED SALT-INDUCED STRESS  
KAVAS M., Akca O. E., Akcay U. C., Peksel B., Eroglu S., ÖKTEM H. A., Yucel M.  
ARCHIVES OF BIOLOGICAL SCIENCES, cilt.67, sa.4, ss.1303-1312, 2015 (SCI-Expanded)
- XXXIV. Development of a paper-type tyrosinase biosensor for detection of phenolic compounds  
Senyurt O., EYİDOĞAN F., Yilmaz R., Oz M. T., Ozalp V. C., Arica Y., ÖKTEM H. A.  
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, cilt.62, sa.1, ss.132-136, 2015 (SCI-Expanded)
- XXXV. Evaluation of photosynthetic performance of wheat cultivars exposed to boron toxicity by the JIP fluorescence test  
Oz M. T., TURAN Ö., Kayihan C., EYİDOĞAN F., EKMEKÇİ Y., YÜCEL M., ÖKTEM H. A.  
PHOTOSYNTHETICA, cilt.52, sa.4, ss.555-563, 2014 (SCI-Expanded)
- XXXVI. Thermo-resistant green microalgae for effective biodiesel production: Isolation and characterization of unialgal species from geothermal flora of Central Anatolia  
Onay M., Sonmez C., ÖKTEM H. A., YÜCEL A. M.  
BIORESOURCE TECHNOLOGY, cilt.169, ss.62-71, 2014 (SCI-Expanded)
- XXXVII. NanoKeepers: stimuli responsive nanocapsules for programmed specific targeting and drug delivery  
Hernandez F. J., Hernandez L. I., Kavruk M., Arica Y. M., BAYRAMOĞLU G., Borsa B. A., Oktem H. A., Schafer T., Ozalp V. C.  
CHEMICAL COMMUNICATIONS, cilt.50, sa.67, ss.9489-9492, 2014 (SCI-Expanded)
- XXXVIII. Evaluation of abiotic stress tolerance and physiological characteristics of potato (*Solanum tuberosum* L. cv. Kennebec) that heterologously expresses the rice *Osmyb4* gene  
Aydin G., Yucel M., Chan M., ÖKTEM H. A.  
PLANT BIOTECHNOLOGY REPORTS, cilt.8, sa.3, ss.295-304, 2014 (SCI-Expanded)
- XXXIX. Pathogen detection by core-shell type aptamer-magnetic preconcentration coupled to real-time PCR  
Ozalp V. C., BAYRAMOĞLU G., Kavruk M., Keskin B. B., ÖKTEM H. A., ARICA M. Y.  
ANALYTICAL BIOCHEMISTRY, cilt.447, ss.119-125, 2014 (SCI-Expanded)
- XL. Transgenic *Nicotiana tabacum* cultivar Samsun plants carrying the wild sugar beet *Hs1pro1* gene have resistance to root-knot nematodes  
Sonmez C., ELEKCİOĞLU İ. H., YÜCEL A. M., ÖKTEM H. A.  
TURKISH JOURNAL OF BIOLOGY, cilt.38, sa.2, ss.200-207, 2014 (SCI-Expanded)
- XLI. Design of a core-shell type immuno-magnetic separation system and multiplex PCR for rapid detection of pathogens from food samples  
Ozalp V. C., BAYRAMOĞLU G., ARICA M. Y., ÖKTEM H. A.

- APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, cilt.97, sa.21, ss.9541-9551, 2013 (SCI-Expanded)
- XLII. **Nanoparticle embedded enzymes for improved lateral flow sensors**  
Ozalp V. C., Zeydanli U. S., Lundin A., Kavruk M., Oz M. T., Eyidogan F., Olsen L. F., Oktem H. A.  
ANALYST, cilt.138, sa.15, ss.4255-4259, 2013 (SCI-Expanded)
- XLIII. **Antimicrobial aptamers for detection and inhibition of microbial pathogen growth**  
Ozalp V. C., Bilecen K., Kavruk M., Oktem H. A.  
FUTURE MICROBIOLOGY, cilt.8, sa.3, ss.387-401, 2013 (SCI-Expanded)
- XLIV. **VECTOR CONSTRUCTION STRATEGIES FOR TRANSFORMATION OF WHEAT PLANT**  
BALOĞLU M. C., Battal A., AYDIN G., EROĞLU A. Ü., Oz M. T., KAVAS M., ÖKTEM H. A., YÜCEL M.  
JOURNAL OF ANIMAL AND PLANT SCIENCES, cilt.23, sa.3, ss.906-912, 2013 (SCI-Expanded)
- XLV. **Portable Bioactive Paper-Based Sensor for Quantification of Pesticides**  
Kavruk M., Ozalp V. C., Oktem H. A.  
JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY, 2013 (SCI-Expanded)
- XLVI. **Cu/Zn superoxide dismutase activity and respective gene expression during cold acclimation and freezing stress in barley cultivars**  
Kayihan C., EYİDOĞAN F., Afsar N., ÖKTEM H. A., YÜCEL M.  
BIOLOGIA PLANTARUM, cilt.56, sa.4, ss.693-698, 2012 (SCI-Expanded)
- XLVII. **Expression Analysis of TaNAC69-1 and TtNAMB-2, Wheat NAC Family Transcription Factor Genes Under Abiotic Stress Conditions in Durum Wheat (*Triticum turgidum*)**  
Baloglu M. C., Oz M. T., ÖKTEM H. A., YÜCEL A. M.  
PLANT MOLECULAR BIOLOGY REPORTER, cilt.30, sa.5, ss.1246-1252, 2012 (SCI-Expanded)
- XLVIII. **Particle bombardment transformation of some Turkish wheat cultivars with TaNAC69-1 and TtNAMB2 genes**  
Battal A., BALOĞLU M. C., Kavas M., YÜCEL M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- XLIX. **Development of a portable bioagent detection and early warning system**  
ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- L. **Transcriptome profiling of wheat under heat and cold stress treatments**  
BALOĞLU M. C., Oz M. T., ÖKTEM H. A., Yucel M.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LI. **Boron toxicity and deficiency in Triticeae: Update on tolerance mechanisms and transporters**  
Oz M. T., Kayihan C., Gumusel D., Karagedikli G., Pallotta M., Sutton T., Langridge P., EYİDOĞAN F., Yucel M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LII. **A sandwich hybridization base miRNA detection chip**  
Oktem H. A., Berkman C. C., Atilgan S., ERSON BENSA N. A. E.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LIII. **Abiotic stress tolerance and growth responses of transgenic potato (*Solanum tuberosum L.* cv. Kennebec) plants expressing rice *Osmyb4* gene**  
AYDIN G., Yucel M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LIV. **1.1.19 Bio-fuel production from olive oil by transesterification reactions**  
Onay M., Yucel M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LV. **Development of an On-Chip Approach for Oligonucleotide Ligation Mediated SNP Detection**  
Akca O., Oz M. T., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LVI. **Transformation of *Nicotiana tabacum* with a NAC-type transcription factor, TaNAC69-1**  
EROĞLU A. Ü., ÖKTEM H. A., YÜCEL M.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)

- LVII. **Development of an Aptamer Based Biosensor for *Salmonella* Identification**  
ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LVIII. **Heterologous expression of a barley boron transporter gene in tobacco (*Nicotiana tabaccum*) and analysis of transgenic plants**  
Gumusel D., Oz M. T., EYİDOĞAN F., Yucel M., ÖZDEN ÇİFTÇİ Y., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LIX. **Influence of boron toxicity on global expression profiles in wheat (*Triticum aestivum L.*)**  
Kayihan C., Oz M. T., EYİDOĞAN F., YÜCEL M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, cilt.29, 2012 (SCI-Expanded)
- LX. **A sandwich-type DNA array platform for detection of GM targets in multiplex assay**  
Cansiz S., ÖZEN C., Bayrac C., Bayrac A. T., GÜL F., Kavruk M., Yilmaz R., EYİDOĞAN F., ÖKTEM H. A.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, cilt.235, sa.3, ss.429-437, 2012 (SCI-Expanded)
- LXI. **Development of a laccase based paper biosensor for the detection of phenolic compounds**  
ÖKTEM H. A., Senyurt O., EYİDOĞAN F., Bayrac C., Yilmaz R.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, cilt.10, sa.2, ss.1030-1034, 2012 (SCI-Expanded)
- LXII. **Antioxidative and physiological responses of two sunflower (*Helianthus annuus*) cultivars under PEG-mediated drought stress**  
Baloglu M. C., Kavas M., Aydin G., ÖKTEM H. A., YÜCEL A. M.  
TURKISH JOURNAL OF BOTANY, cilt.36, sa.6, ss.707-714, 2012 (SCI-Expanded)
- LXIII. **A two-stage pretreatment of seedlings improves adventitious shoot regeneration in sugar beet (*Beta vulgaris L.*)**  
Gurel S., Baloglu M. C., GÜREL E., ÖKTEM H. A., Yucel M.  
PLANT CELL TISSUE AND ORGAN CULTURE, cilt.106, sa.2, ss.261-268, 2011 (SCI-Expanded)
- LXIV. **In Vitro Selection of DNA Aptamers to *Glioblastoma Multiforme***  
Bayrac A. T., Sefah K., Parekh P., Bayrac C., Gulbakan B., ÖKTEM H. A., Tan W.  
ACS CHEMICAL NEUROSCIENCE, cilt.2, sa.3, ss.175-181, 2011 (SCI-Expanded)
- LXV. **Molecular cloning, characterization, and expression analysis of a gene encoding a Ran binding protein (RanBP) in *Cucumis melo* L.**  
Baloglu M. C., Zakharov F. N., ÖKTEM H. A., YÜCEL A. M.  
TURKISH JOURNAL OF BIOLOGY, cilt.35, sa.4, ss.387-397, 2011 (SCI-Expanded)
- LXVI. **Drought-induced oxidative damage and antioxidant responses in peanut (*Arachis hypogaea L.*) seedlings**  
Akcay U. C., Ercan O., Kavas M., Yildiz L., YILMAZ Ç., ÖKTEM H. A., YÜCEL M.  
PLANT GROWTH REGULATION, cilt.61, sa.1, ss.21-28, 2010 (SCI-Expanded)
- LXVII. **Sub-cellular distribution of two salt-induced peptides in roots of *Oryza sativa L.* var Nonabokra**  
Naqvi S. M. S., Raza S. Q., Hyder M. Z., Ozalp C. V., Oktem H. A., Yucel M.  
AFRICAN JOURNAL OF BIOTECHNOLOGY, cilt.8, sa.18, ss.4613-4617, 2009 (SCI-Expanded)
- LXVIII. **An improved method for inference of piecewise linear systems by detecting jumps using derivative estimation**  
Selcuk A. M., ÖKTEM H. A.  
NONLINEAR ANALYSIS-HYBRID SYSTEMS, cilt.3, sa.3, ss.277-287, 2009 (SCI-Expanded)
- LXIX. **OPTIMIZED SELECTION AND REGENERATION CONDITIONS FOR AGROBACTERIUM-MEDIATED TRANSFORMATION OF CHICKPEA COTYLEDONARY NODES**  
Oez M. T., EYİDOĞAN F., YÜCEL M., ÖKTEM H. A.  
PAKISTAN JOURNAL OF BOTANY, cilt.41, sa.4, ss.2043-2054, 2009 (SCI-Expanded)
- LXX. **QCM-based DNA biosensor for detection of genetically modified organisms (GMOs)**  
Karamollaoglu I., Oektem H. A., Mutlu M.  
BIOCHEMICAL ENGINEERING JOURNAL, cilt.44, ss.142-150, 2009 (SCI-Expanded)
- LXXI. **Agrobacterium tumefaciens-mediated genetic transformation of a recalcitrant grain legume, lentil (*Lens culinaris* Medik)**

- Akcay U. C., Mahmoudian M., Kamci H., YÜCEL M., ÖKTEM H. A.  
 PLANT CELL REPORTS, cilt.28, sa.3, ss.407-417, 2009 (SCI-Expanded)
- LXXII. **Identification and characterization of hydrolytic enzymes from the midgut of Sunn Pest of wheat (*Eurygaster integriceps*)**  
 Ogur E., YÜCEL M., ÖKTEM H. A.  
 INTERNATIONAL JOURNAL OF PEST MANAGEMENT, cilt.55, sa.4, ss.359-364, 2009 (SCI-Expanded)
- LXXIII. **Identification and characterization of hydrolytic enzymes from the midgut of the cotton bollworm, *Helicoverpa armigera* Hubner (Lepidoptera: Noctuidae)**  
 Ozgur E., Yucel M., ÖKTEM H. A.  
 TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, cilt.33, sa.3, ss.285-294, 2009 (SCI-Expanded)
- LXXIV. **Microarray Analysis of Late Response to Boron Toxicity in Barley (*Hordeum vulgare L.*) Leaves**  
 Oz M. T., Yilmaz R., Eyidogan F., de Graaff L., Yucel M., ÖKTEM H. A.  
 TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, cilt.33, sa.2, ss.191-202, 2009 (SCI-Expanded)
- LXXV. **Factors affecting plant regeneration from immature inflorescence of two winter wheat cultivars**  
 Kavas M., ÖKTEM H. A., YÜCEL M.  
 BIOLOGIA PLANTARUM, cilt.52, sa.4, ss.621-626, 2008 (SCI-Expanded)
- LXXVI. **Analysis and optimization of DNA delivery into chickpea (*Cicer arietinum L.*) seedlings by Agrobacterium tumefaciens**  
 AKBULUT M., Yucel M., Oktem H. A.  
 AFRICAN JOURNAL OF BIOTECHNOLOGY, cilt.7, sa.8, ss.1011-1017, 2008 (SCI-Expanded)
- LXXVII. **Antioxidant responses of lentil to cold and drought stress**  
 ÖKTEM H. A., Eyidooan F., Demirba D., Bayrac A. T., Oez M. T., Oezguer E., Selcuk F., Yuecel M.  
 JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY, cilt.17, sa.1, ss.15-21, 2008 (SCI-Expanded)
- LXXVIII. **Label-free detection of telomerase activity using guanine electrochemical oxidation signal**  
 Eskiocak U., Ozkan-Ariksoysal D., Ozsoz M., Oktem H. A.  
 ANALYTICAL CHEMISTRY, cilt.79, sa.22, ss.8807-8811, 2007 (SCI-Expanded)
- LXXIX. **A dye-ligand immobilized poly(2-hydroxyethylmethacrylate) membrane used for adsorption and isolation of immunoglobulin G**  
 Bayramoglu G., Oktem H. A., Arica M. Y.  
 BIOCHEMICAL ENGINEERING JOURNAL, cilt.34, sa.2, ss.147-155, 2007 (SCI-Expanded)
- LXXX. **Single-step purification of recombinant *Thermus aquaticus* DNA polymerase using DNA-aptamer immobilized novel affinity magnetic beads**  
 Oktem H. A., Bayramoglu G., Ozalp V. C., Arica M. Y.  
 BIOTECHNOLOGY PROGRESS, cilt.23, sa.1, ss.146-154, 2007 (SCI-Expanded)
- LXXXI. **A survey on piecewise-linear models of regulatory dynamical systems**  
 Oktem H.  
 NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, cilt.63, sa.3, ss.336-349, 2005 (SCI-Expanded)
- LXXXII. **Biochemical analysis of trehalose and its metabolizing enzymes in wheat under abiotic stress conditions**  
 El-Bashiti T., Hamamci H., Oktem H., Yucel M.  
 PLANT SCIENCE, cilt.169, sa.1, ss.47-54, 2005 (SCI-Expanded)
- LXXXIII. **Antioxidant responses of shoots and roots of lentil to NaCl-salinity stress**  
 Bandeoglu E., Eyidogan F., Yucel M., Oktem H.  
 PLANT GROWTH REGULATION, cilt.42, sa.1, ss.69-77, 2004 (SCI-Expanded)
- LXXXIV. **Antioxidant responses of tolerant and sensitive barley cultivars to boron toxicity**  
 Karabal E., Yucel M., Oktem H.  
 PLANT SCIENCE, cilt.164, sa.6, ss.925-933, 2003 (SCI-Expanded)
- LXXXV. **Superoxide dismutase activity in salt stressed wheat seedlings**  
 Eyidogan F., Oktem H., Yucel M.  
 ACTA PHYSIOLOGIAE PLANTARUM, cilt.25, sa.3, ss.263-269, 2003 (SCI-Expanded)
- LXXXVI. **Superoxide dismutase activity of hexaploid and tetraploid wheat cultivars subjected to heat and**

**chilling stress**

Eyidogan F., Oktem H., Yucel M.

CEREAL RESEARCH COMMUNICATIONS, cilt.31, ss.387-394, 2003 (SCI-Expanded)

- LXXXVII. **Transformation of lentil (*Lens culinaris M.*) cotyledonary nodes by vacuum infiltration of *Agrobacterium tumefaciens***

Mahmoudian M., Yucel M., Oktem H.

PLANT MOLECULAR BIOLOGY REPORTER, cilt.20, sa.3, ss.251-257, 2002 (SCI-Expanded)

- LXXXVIII. **Nitrate reductase and glutamate dehydrogenase activities of resistant and sensitive cultivars of wheat and barley under boron toxicity**

Mahboobi H., Yucel M., Oktem H.

JOURNAL OF PLANT NUTRITION, cilt.25, sa.8, ss.1829-1837, 2002 (SCI-Expanded)

- LXXXIX. **Vacuum infiltration based agrobacterium mediated gene transfer to lentil (*Lens culinaris M.*) tissues**

Mahmoudian M., Celikkol U., Yucel M., Oktem H.

BIOTECHNOLOGY & BIOTECHNOLOGICAL EQUIPMENT, cilt.16, sa.1, ss.24-29, 2002 (SCI-Expanded)

- XC. **Cell wall uronic acid concentrations of resistant and sensitive cultivars of wheat and barley under boron toxicity**

Mahboobi H., Yucel M., Oktem H.

JOURNAL OF PLANT NUTRITION, cilt.24, sa.12, ss.1965-1973, 2001 (SCI-Expanded)

- XCI. **Effect of arachidonic acid on specific binding of [<sup>3</sup>H]naloxone to opioid receptors**

Apaydin S., ÖKTEM H. A.

Acta Neurobiologiae Experimentalis, cilt.60, sa.3, ss.361-363, 2000 (SCI-Expanded)

- XCII. **Changes in total protein profiles of barley cultivars in response to toxic boron concentration**

Mahboobi H., Yucel M., Oktem H.

JOURNAL OF PLANT NUTRITION, cilt.23, sa.3, ss.391-399, 2000 (SCI-Expanded)

- XCIII. **Effect of arachidonic acid on specific binding of [<sup>3</sup>H]naloxone to opioid receptors**

Apaydin S., Oktem H.

ACTA NEUROBIOLOGIAE EXPERIMENTALIS, cilt.60, sa.3, ss.361-363, 2000 (SCI-Expanded)

- XCIV. **Photosystem II and cellular membrane stability evaluation in hexaploid wheat seedlings under salt stress conditions**

Ozalp V., Oktem H., Naqvi S., Yucel M.

JOURNAL OF PLANT NUTRITION, cilt.23, sa.2, ss.275-283, 2000 (SCI-Expanded)

- XCV. **Immobilization of catalase in poly(isopropylacrylamide-co-hydroxyethylmethacrylate) thermally reversible hydrogels**

Arica M., Oktem H., Oktem Z., Tuncel S.

POLYMER INTERNATIONAL, cilt.48, sa.9, ss.879-884, 1999 (SCI-Expanded)

- XCVI. **Effect of water deficit conditions on superoxide dismutase isoenzyme activities in wheat**

Inci F., Oktem H., Yucel M.

CEREAL RESEARCH COMMUNICATIONS, cilt.26, sa.3, ss.297-304, 1998 (SCI-Expanded)

- XCVII. **SALT-INDUCED SYNTHESIS OF NEW PROTEINS IN THE ROOTS OF RICE VARIETIES**

NAQVI S., OZALP V., OKTEM H. A., YUCEL M.

JOURNAL OF PLANT NUTRITION, cilt.18, sa.6, ss.1121-1137, 1995 (SCI-Expanded)

- XCVIII. **2-DIMENSIONAL ELECTROPHORESIS OF PROTEINS WITH A DIFFERENT APPROACH TO ISOELECTRIC-FOCUSING**

NAQVI S., OZALP V., OKTEM H., YUCEL M.

ANALYST, cilt.119, sa.6, ss.1341-1344, 1994 (SCI-Expanded)

- XCIX. **OPIOID RECEPTOR LABELING WITH THE CHLOROMETHYL KETONE DERIVATIVE OF [<sup>3</sup>H] TYR-D-ALA-GLY-(ME)PHE-GLY-OL (DAMGO) .2. COVALENT LABELING OF MU-OPIOID BINDING-SITE BY H-3 TYR-D-ALA-GLY-(ME)PHE CHLOROMETHYL KETONE**

OKTEM H. A., MOITRA J., BENYHE S., TOTH G., LAJTHA A., BORSODI A.

LIFE SCIENCES, cilt.48, sa.18, ss.1763-1768, 1991 (SCI-Expanded)

- C. **OPIOID RECEPTOR LABELING WITH THE CHLOROMETHYL KETONE DERIVATIVE OF [<sup>3</sup>H] TYR-D-**

- ALA-GLY-(ME)PHE-GLY-OL (DAMGO) .1. BINDING-PROPERTIES OF H-3 TYR-D-ALA-GLY-(ME)PHE CHLOROMETHYL KETONE**  
OKTEM H. A., VARGA E., HEPP J., MEDZIHRADZKY K., LAJTHA A., BORSODI A.  
LIFE SCIENCES, cilt.48, sa.18, ss.1757-1762, 1991 (SCI-Expanded)
- CI. AFFINITY LABELING OF MU OPIOID RECEPTORS**  
BORSODI A., OKTEM H. A., BENYHE S., VARGA E., MOITRA J., TAKACS J., LAJTHA A.  
EUROPEAN JOURNAL OF PHARMACOLOGY, cilt.183, sa.6, ss.2075-2076, 1990 (SCI-Expanded)
- CII. CHARACTERIZATION OF HUMAN PLACENTAL OPIOID RECEPTORS BY H-3 ETHYLKETOCYCLAZOCINE AND H-3 NALOXONE BINDING**  
AGBAS A., SIMON J., OKTEM H. A., VARGA E., BORSODI A.  
NEuropeptides, cilt.12, sa.3, ss.171-176, 1988 (SCI-Expanded)

### Diger Dergilerde Yayınlanan Makaleler

- I. **Growth of microalgae Chlorella vulgaris at the photobioreactor for biodiesel production**  
ERTÜRK H., SUDAGIDAN M., YURDAKUL M., ÖKTEM H. A.  
Microbiology and Biotechnology Reports, cilt.2, sa.1, 2018 (Hakemli Dergi)
- II. **Aptamer-Gated Nanoparticles for Smart Drug Delivery**  
Cengiz Ozalp V., Eyidogan F., Oktem H. A.  
PHARMACEUTICALS, cilt.4, sa.8, ss.1137-1157, 2011 (ESCI)
- III. **High temperature responses of Aegilops biuncialis species and Triticum durum cultivar**  
Terzioglu S., Yildiz M., YÜCEL M., ÖKTEM H. A.  
Pakistan Journal of Biological Sciences, cilt.9, sa.14, ss.2579-2585, 2006 (Scopus)
- IV. **Plant biotechnology in Turkey**  
ÖKTEM H. A.  
Acta Horticulturae, cilt.725 I, ss.73-79, 2006 (Scopus)
- V. **Marker gene delivery to mature wheat embryos via particle bombardment**  
ÖKTEM H. A., Eyidoğan F., Ertuğrul F., YÜCEL M., Jenes B., Toldi O.  
Turkish Journal of Botany, cilt.23, sa.5, ss.303-308, 1999 (Scopus)
- VI. **Development of phosphinothrinicin resistant fertile transgenic tobacco plants**  
ÖKTEM H. A.  
Acta Agronomica Hungarica, cilt.46, sa.2, ss.97-104, 1998 (Scopus)
- VII. **Modulatory role of lysophosphatidic acid on opioid receptor binding**  
Apaydin S., ÖKTEM H. A.  
Neurobiology, cilt.6, sa.4, ss.421-427, 1998 (Scopus)
- VIII. **Arachidonic acid modulation of [3H]naloxone specific binding to rat brain opioid receptors**  
ÖKTEM H. A., Apaydin S.  
Neurobiology, cilt.6, sa.3, ss.323-332, 1998 (Scopus)
- IX. **Thermodynamic parameters of frog brain κ-opioid receptors**  
Moitra J., ÖKTEM H. A., Borsodi A.  
Journal of Neurochemistry, cilt.65, sa.2, ss.798-801, 1995 (Scopus)

### Kitap & Kitap Bölümleri

- I. **Biyoloji: Öz**  
ARSLAN Ö., ÇİÇEK N., YILMAZ R., ÖKTEM H. A., EKMEKÇİ Y., KAYIHAN C., EYİDOĞAN F., KANDEMİR İ., ÇETİN D. nobel, 2017
- II. **Lentil (Lens culinaris Medik)**  
ÇELİKKOL AKÇAY U., YÜCEL A. M., ÖKTEM H. A.

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Analysis of Antimicrobial and Coagulation Inducing Effects of a New Decontamination Powder**  
Tosun B. Ç., Öktem H. A.  
II. International CBRN Congress, Ankara, Türkiye, 27 - 29 Kasım 2019, ss.196-199
- II. **Effects of Radiation Dose Rates on DNA Extraction Obtained From Bacillus Anthracis**  
ORTATATLI M., KENAR L., SEZİGEN S., EYİSON R. K., ÖKTEM H. A.  
23' ncü Balkan Askeri Tıp Kongresi, Antalya, Türkiye, 11 - 14 Mayıs 2018
- III. **Yerel Micractinium sp. ME05 Suşunun Şilempe Kullanılarak Büyütülmesi ve Biyodizel Üretimi**  
Köse Engin I., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Türkiye, 1 - 03 Aralık 2017
- IV. **Tam Hücre Bakteriyel Biyosensörleri Kullanılarak Sudaki Ağır Metallerin Tespit Edilmesi**  
ELÇİN E., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Türkiye, 1 - 03 Aralık 2017
- V. **Melas Kullanılarak Yerel Micractinium sp. ME05 Suşunun Büyütülmesi ve Yağ Üretimi**  
Köse Engin I., ÇEKMECELİOĞLU D., YÜCEL A. M., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Türkiye, 1 - 03 Aralık 2017
- VI. **Aflatoksin B1 Tanısı İçin Mezoporlu Silika Nanoparçacık Tabanlı Aptasensörün Geliştirilmesi**  
BULUT O., YILMAZ M. D., ÖKTEM H. A.  
19. ULUSLARARASI KATILIMLI ULUSAL BİYOTEKNOLOJİ KONGRESİ, Türkiye, 1 - 03 Aralık 2017
- VII. **Growth of the algae Chlorella vulgaris at the photobioreactor and extraction of fatty acids for biodiesel production**  
ERTÜRK H., ÖKTEM H. A.  
6th World Congress on Biofuels abd Bioenergy, 5 - 07 Eylül 2017
- VIII. **Cold-induced comparative transcriptome analysis of Potato (*Solanum tuberosum* L. cv. Kennebec) that heterologously expresses the rice *Osmyb4* gene**  
AYDIN G., Oz M. T., Yucel M., Oktem H. A.  
European Biotechnology Conference, Letonya, 5 - 07 Mayıs 2016, cilt.231
- IX. **Thermo-resistant microalgae for biodiesel production**  
Onay M., Sonmez C., ÖKTEM H. A., YÜCEL M.  
FEBS EMBO 2014 Conference, Paris, Fransa, 30 Ağustos - 04 Eylül 2014, cilt.281, ss.672-673
- X. **Biodiesel production from hazelnut oil by means of transesterification reaction**  
Onay M., YÜCEL M., ÖKTEM H. A.  
38th Congress of the Federation-of-European-Biochemical-Societies (FEBS), Saint Peter, Guernsey Ve Alderney, 6 - 11 Temmuz 2013, cilt.280, ss.598-599
- XI. **Application of Fiber-FISH methods for Transgene Analysis in Transgenic Plants**  
Aksoy S., Hekimbasi T., EYİDOĞAN F., ÖKTEM H. A., BUDAK H.  
7th European Cytogenetics Conference, Stockholm, İsveç, 4 - 07 Temmuz 2009, cilt.17, ss.170
- XII. **Optimisation of tissue culture, regeneration and Agrobacterium-mediated transformation paramaters in winter wheat cultivars (T.durum cv. Kiziltan-91 and T.aestivum cv. Bezostaja-01)**  
Kavas M., ÖKTEM H. A., YÜCEL M.  
11th Annual Congress of the International- Association-for-Plant-Tissue-Culture-and-Biotechnology, Beijing, Çin, 13 - 18 Ağustos 2006, ss.315-318
- XIII. **Effect of different plant protease and alpha-amylase inhibitors on two important pests of Turkey; E. integriceps and H. armigera**  
Ozgur E., Yucel M., Oktem H. A.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Türkiye, 24 - 29 Haziran

- 2006, cilt.273, ss.76
- XIV. **GMPS in Turkey: current status and future challenges**  
Oktem H. A.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Türkiye, 24 - 29 Haziran 2006, cilt.273, ss.39
- XV. **Drought-induced oxidative damage and antioxidant responses in lentil (*Lens culinaris*, M) under polyethylene glycol mediated water stress**  
Akcay U. C., Kavas M., Ercan O., Aksoy E., Alshalalfa M., Gerdan O. F., Yucel M., Oktem H. A.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Türkiye, 24 - 29 Haziran 2006, cilt.273, ss.362
- XVI. **An anticipatory extension of Malthusian model**  
AKHMET M., ÖKTEM H. A., PICKL S. W., WEBER G. W.  
7th International Conference on Computing Anticipatory Systems (CASYS 05), Liege, Belçika, 8 - 13 Ağustos 2005, cilt.839, ss.260-262
- XVII. **Mathematical Modeling and Approximation of Gene Expression Patterns**  
YILMAZ F., ÖKTEM H. A., WEBER G. W.  
Annual International Conference of the German-Operations-Research-Society, Tilburg, Hollanda, 1 - 03 Eylül 2004, ss.280-287
- XVIII. **Molecular structure, regulation and subcellular distribution of mu opioid receptors during postnatal development**  
Szucs M., ÖKTEM H. A., Szuts V., Lengyel I., Toth G., Coscia C., Wolleman M.  
The International Narcotics Research Conference, 8 - 13 Temmuz 1989, ss.250
- XIX. **Affinity labeling of opioid receptors with enkephalin analogues**  
Borsodi A., ÖKTEM H. A., Benyhe S., Varga E., Moitra J., Takacs J.  
The International Narcotics Research Conference, 8 - 13 Temmuz 1989, ss.171

## Desteklenen Projeler

ÖKTEM H. A., TEZCANER A., SON Ç. D., ARIK KINALI N., Yükseköğretim Kurumları Destekli Proje, İmmobilize tüm hücre biyopartör sensörlerin sudaki ağır metal tespitinde performansının değerlendirilmesi, 2021 - 2023

ÖKTEM H. A., Kavruk M., Yükseköğretim Kurumları Destekli Proje, KBRN Ajanlarına Yönelik Nükleik Asit Tabanlı Tespit Yöntemlerinin Geliştirilmesi, 2013 - 2019

BÖLÜKBAŞI U., ÖKTEM H. A., Köse I., Yükseköğretim Kurumları Destekli Proje, Tarım Atıkları Kullanılarak Mikroalglerin Heterotrofik Çoğaltım Koşullarının Optimizasyonu, 2014 - 2014

GÖZEN A. G., ÖKTEM H. A., BUCAK T., COPPENS J. E. P., KALVENAS J. E., İZGÜ K. F., BEKLİOĞLU M., BİRAND ÖZSOY A. C., GÜNDÜZ U., GÜRSEL M., et al., Yükseköğretim Kurumları Destekli Proje, Sucul biofilm bakterilerinin arsenik, nikel ve kadmiyum dirençlerinin belirlenmesi ve moleküler karakterizasyonu, 2013 - 2014

ÖKTEM H. A., Yükseköğretim Kurumları Destekli Proje, Mirna Sandviç Hibridizasyon Platformunun Mikro Hacimli Kapiler Sisteme Uygulanması, 2012 - 2012

ÖKTEM H. A., Yükseköğretim Kurumları Destekli Proje, Kbrn Uygulamaları İçin Yeni Nesil Algılama Sistemlerinin Geliştirilmesi, 2011 - 2011

## Metrikler

Yayın: 134  
Atıf (WoS): 1860  
Atıf (Scopus): 1503  
H-İndeks (WoS): 23  
H-İndeks (Scopus): 19

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