

Prof. HÜSEYİN AVNİ ÖKTEM

Personal Information

Email: haoktem@metu.edu.tr
Web: <https://avesis.metu.edu.tr/haoktem>

International Researcher IDs

ScholarID: AEkPmv4AAAAJ
ORCID: 0000-0002-1009-9820
Publons / Web Of Science ResearcherID: ABA-3287-2020
ScopusID: 6701805729
Yoksis Researcher ID: 163525

Education Information

Doctorate, Jozsef Attila Üniversitesi, Biyokimya, Hungary 1987 - 1990
Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyokimya (YI) (Tezli), Turkey 1985 - 1987
Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, Turkey 1981 - 1985

Dissertations

Doctorate, Molecular Characterization of mu Opioid Receptors by Affinity Labeling, Jozsef Attila Üniversitesi, Biyokimya, 1990
Postgraduate, Effect of membrane fluidity on binding of 125I-Insulin to sheep liver membrane receptors, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyokimya (YI) (Tezli), 1987

Research Areas

Life Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 2017 - Continues
Professor, Konya Food And Agriculture University, Faculty Of Engineering And Natural Sciences, 2015 - 2017
Professor, Middle East Technical University, Faculty of Arts and Sciences, Moleküler Biyoloji Ve Genetik Bölümü, 2000 - 2014
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Moleküler Biyoloji Ve Genetik Bölümü, 1995 - 2000
Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1993 - 1995
Lecturer, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1992 - 1993
Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1986 - 1992

Academic and Administrative Experience

Rector, Konya Food And Agriculture University, Rectorate, 2015 - 2017

Middle East Technical University, Faculty of Arts and Sciences, Department of Biology, 1997 - 2000

Advising Theses

ÖKTEM H. A., Assessment of antimicrobial and coagulant activities of CBRN decontamination materials, Postgraduate, B.ÇAĞRI(Student), 2022

ÖKTEM H. A., Development of nucleic acid coated nanoparticle based lateral flow assay for e.coli detection, Postgraduate, D.Bingöl(Student), 2019

ÖKTEM H. A., Development of a loop mediated isothermal amplification (LAMP) based detection platform for genetically modified organism (GMO) detection, Postgraduate, A.Nazlı(Student), 2019

ÖKTEM H. A., Development of wholecell bioreporters for detection of boric acid, cyanide and paraquat, Postgraduate, M.Suluova(Student), 2019

ÖKTEM H. A., Development of fluorescent whole-cell bacterial bioreporters for detection of inorganic arsenic and cadmium, Doctorate, E.Elçin(Student), 2019

ÖKTEM H. A., Antioxidant capacities and bioactive compounds of novel thermo-tolerant green microalgae, Doctorate, O.Bulut(Student), 2018

ÖKTEM H. A., YÜCEL A. M., Development of nucleic acid coated nanoparticle based lateral flow assay for Salmonella detection, Postgraduate, M.KAAN(Student), 2017

ÖKTEM H. A., Evaluation of molasses and vinasse performance for lipid production from green microalgae, Doctorate, I.ENGİN(Student), 2017

ÖKTEM H. A., Development of immunoaffinity based detection platforms for food pathogens, Doctorate, D.ÇAM(Student), 2016

ÖKTEM H. A., YÜCEL A. M., Development of newborn galactosemia screening kits /, Postgraduate, S.Yağmur(Student), 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, Doctorate, A.EROĞLU(Student), 2015

ÖKTEM H. A., YÜCEL A. M., Development of newborn Galactosemia screening kits, Postgraduate, S.YAĞMUR(Student), 2015

ÖKTEM H. A., YÜCEL A. M., Bio-fuel production from microalgae, Doctorate, M.ONAY(Student), 2015

ÖKTEM H. A., Development of diagnostic platforms for single nucleotide polymorphism detection, Doctorate, O.AKÇA(Student), 2014

ÖKTEM H. A., Öktem H., Optimization of hypericin extraction from hypericum perforatum L. tissues and evaluation of its applicability in dye-sensitized solar cells /, Postgraduate, Ö.Aktuna(Student), 2014

ÖKTEM H. A., Development of nucleic acid based lateral flow immunochromatic test platform for Salmonella detection, Postgraduate, O.BULUT(Student), 2014

ÖKTEM H. A., Development of sandwich type nucleic acid array platform for the detection of microRNAs in breast cancer, Postgraduate, S.ATILGAN(Student), 2014

ÖKTEM H. A., Development of nucleic acid based lateral flow immunochemical test platform for salmonella detection, Postgraduate, O.Bulut(Student), 2014

ÖKTEM H. A., Generation of aptamer against Salmonella serovar enteritidis and development of aptamer-based capillary biosensor, Doctorate, C.BAYRAÇ(Student), 2014

ÖKTEM H. A., Development of reference materials for GMO detection /, Postgraduate, B.BİROL(Student), 2014

ÖKTEM H. A., Optimization of hypericin extraction from Hypericum perforatum L. tissues and evaluation of its applicability in dye-sensitized solar cells, Postgraduate, Ö.AKTUNA(Student), 2014

ÖKTEM H. A., Development of nanoparticle and nanotextile based decontamination systems for biological agents, Postgraduate, Ö.KALMAN(Student), 2013

ÖKTEM H. A., Bor taşıyıcısı HvBor1a geninin tübüne (*Nicotiana tabacum*) aktarılması ve transgenik bitkilerin analizleri,

Postgraduate, D.SELİN(Student), 2012
ÖKTEM H. A., Microarray based expression profiling of barley under boron stress and cloning of 3H boron tolerance gene, Doctorate, M.TUFAN(Student), 2012
ÖKTEM H. A., Development of salt resistant transgenic plants by using TaNHX1 and TaSTR genes, Doctorate, M.KAVAS(Student), 2011
ÖKTEM H. A., Isolation and characterization of taq DNA polymerase and optimization and validation of newly designed thermal cyclers, Postgraduate, L.YILDIZ(Student), 2011
ÖKTEM H. A., Transformation of potato with MYB4 transcription factor and evaluation of abiotic stress tolerance and gene expression profiles in transgenic plants, Doctorate, G.KALEMTAŞ(Student), 2011
ÖKTEM H. A., In vitro selection of DNA aptamers to Glioblastoma multiforme, Doctorate, A.TAHİR(Student), 2011
ÖKTEM H. A., Expression analysis of NAC type transcription factors on wheat seedlings under abiotic stress conditions, Doctorate, M.CENGİZ(Student), 2011
ÖKTEM H. A., ÖZEN C., Development of a sandwich-type dna array platform for the detection of label-free oligonucleotide targets, Postgraduate, S.CANSIZ(Student), 2010
ÖKTEM H. A., Öktem H., Development of an oligonucleotide based sandwich array platform for the detection of transgenic elements from plant sources using labal-free PCR products, Postgraduate, F.Gül(Student), 2010
ÖKTEM H. A., Optimization of mature embryo based regeneration and genetic transformation of Turkish wheat cultivars, Postgraduate, A.BATTAL(Student), 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, Postgraduate, F.GÜL(Student), 2010
ÖKTEM H. A., Development of acetylcholinesterase biosensor for the detection of pesticides, Postgraduate, M.KAVRUK(Student), 2010
ÖKTEM H. A., ÖZEN C., The development of alkaline phosphatase based paper bioreporter for evaluation of milk pasteurization, Postgraduate, C.KARAKAŞ(Student), 2009
ÖKTEM H. A., Effect of drought and salt stresses on antioxidant defense system and physiology of lentil (*Lens culinaris* M.) seedlings, Postgraduate, O.ERCAN(Student), 2008
ÖKTEM H. A., Development of paper type tyrosinase biosensor, Postgraduate, Ö.ŞENYURT(Student), 2008
ÖKTEM H. A., Regeneration of lentil (*Lens culinaris* Medik) and genetic transformation by using Agrobacterium tumefaciens-mediated gene transfer, Doctorate, U.ÇELİKKOL(Student), 2008
ÖKTEM H. A., Effect of drought and salt stresses on the gene expression levels of antioxidant enzymes in lentil (*Lens culinaris* M.) seedlings, Postgraduate, E.AKSOY(Student), 2008
ÖKTEM H. A., Development of QCM based DNA biosensors for detection of genetically modified organisms, Doctorate, İ.KARAMOLLAOĞLU(Student), 2007
ÖKTEM H. A., ERSON BENSAÑ A. E., Transformation of *Nicotiana tabacum* plants with Na⁺/H⁺ antiporter (AtNHX1) gene isolated from *Arabidopsis thaliana* for evaluation of salt tolerance, Postgraduate, F.AYSİN(Student), 2007
ÖKTEM H. A., Plazmit DNA saflaştırılması işleminde kullanılmak üzere magnetik afinite mikrokürelerin hazırlanması, Postgraduate, M.ÜRÜN(Student), 2006
ÖKTEM H. A., Transformation of tobacco (*Nicotiana tabaccum*) with antimicrobial pfip gene and analysis of transgenic plants, Postgraduate, T.Tuncer(Student), 2006
ÖKTEM H. A., Identification and characterization of hydrolytic enzymes of sunn pest (*eurygaster integriceps*) and cotton bollworm (*helicoverpa armigera*), Doctorate, E.ÖZGÜR(Student), 2006
ÖKTEM H. A., Optimization of tissue culture, regeneration and Agrobacterium mediated transformation parameters in winter wheat cultivars (Kızıltan-91 and Bezostaja-01), Postgraduate, M.KAVAS(Student), 2005
ÖKTEM H. A., Optimization of selection conditions and agrobacterium mediated transformation of chickpea (*cicer arietinum* L. cv. Gökçe), Postgraduate, M.Tufan(Student), 2005
ÖKTEM H. A., Effect of lipids on binding characteristics of opioid receptors, Doctorate, S.Apaydın(Student), 2005
ÖKTEM H. A., Extension of flower longevity in transgenic plants via antisense blockage of ethylene biosynthesis, Postgraduate, B.DEÇANÍ(Student), 2004
ÖKTEM H. A., Optimization of a regeneration and transformation system for lentil (*Lens culinaris* M.,cv.Sultan-I) cetyledony petioles and epicoyls, Postgraduate, A.TAHİR(Student), 2004
ÖKTEM H. A., Evaluation of salt tolerance in STO transformed *Arabidopsis thaliana* and *Nicotiana tabacum* plants,

Doctorate, F.SELÇUK(Student), 2004
ÖKTEM H. A., Optimization of regeneration and Agrobacterium mediated transformation of wheat (*Triticum aestivum* L.cv. Yüreğir 89), Postgraduate, D.DEMİRBAŞ(Student), 2004
ÖKTEM H. A., Optimization of a regeneration and transformation system for lentil (*lens culinaris M.*, cv. Sultan-I) cotyledonary petioles and epicotyls, Postgraduate, A.Tahir(Student), 2004
ÖKTEM H. A., Optimisation of Agrobacterium mediated gene transfer and micrografting systems in lentil (*Lens culinaris* Medik), Postgraduate, H.KAMÇI(Student), 2004
ÖKTEM H. A., Optimization of regeneration and transformation conditions for chickpea (*Cicer arietinum L.*), Doctorate, M.AKBULUT(Student), 2003
ÖKTEM H. A., Optimization of an integrated bombardment and agrobacterium infiltration based transformation system for lentil, Postgraduate, U.ÇELİKKOL(Student), 2002
ÖKTEM H. A., Effect of boron toxicity on antioxidant enzyme activities of sensitive and resistant barley cultivars, Postgraduate, E.KARABAL(Student), 2002
ÖKTEM H. A., Genetic transformation of potato with P5CS gene and evaluation of salt resistance in transgenic plants., Postgraduate, M.SİMİN(Student), 2002
ÖKTEM H. A., Öktem H., Genetic transformation of tobacco with HS1(PR01) gene and evaluation of nematode resistance in transgenic plants, Postgraduate, Ç.Altun(Student), 2001
ÖKTEM H. A., Effect of salt stress on the antioxidant defense system in lentil (*Lens culinaris M.*) seedlings, Postgraduate, E.BANDEOĞLU(Student), 2001
ÖKTEM H. A., Genetic manipulation of tobacco against osmotic stress via proline overproduction, Doctorate, F.EYİDOĞAN(Student), 2001
ÖKTEM H. A., Genetic transformation of tobacco with Hs1(pro-1) gene and evaluation of nematode resistance in transgenic plants, Postgraduate, Ç.ALTON(Student), 2001
ÖKTEM H. A., Agrobacterium-mediated genetic transformation and microtuberization of potato (*solanum tuberosum L.*), Postgraduate, İ.KARAMOLLAOĞLU(Student), 2000
ÖKTEM H. A., Öktem H., Isolation and biochemical characterization of α-Amylase inhibitor from common bean (*Phaseolus vulgaris L.*), Postgraduate, Z.Akyol(Student), 2000
ÖKTEM H. A., Physiological and biochemical aspects of boron toxicity in wheat and barley, Doctorate, H.MAHBOOBİ(Student), 2000
ÖKTEM H. A., Genetic diversity of wheat gluten proteins and their importance in dough making properties of flour, Doctorate, V.CENGİZ(Student), 2000
ÖKTEM H. A., Isocation and biochemical characterization of alfa-amylase inhibitör from common bean (*phaseolus vulgaris L.*), Postgraduate, Z.AKYOL(Student), 2000
HAMAMCI H., ÖKTEM H. A., Optimisation of tissue culture conditions and gene transfer studies in lentil, Doctorate, M.MAHMOUDİAN(Student), 2000
ÖKTEM H. A., Öktem H., Biochemical and physiological aspects of boron toxicity in wheat and barley, Doctorate, H.Mahboobi(Student), 2000
ÖKTEM H. A., F1-F3 progeny analysis of herbicide resistant transgenic tobacco plant, Postgraduate, A.ARPAT(Student), 1999
ÖKTEM H. A., HAMAMCI H., F-F progeny analysis of herbicide resistant transgenic tobacco plant, Postgraduate, A.Bulak(Student), 1999
ÖKTEM H. A., Development of phosphinotricin resistant transgenic tobacco plants by detoxification and overexpression approaches, Postgraduate, B.MELTEM(Student), 1999
ÖKTEM H. A., Production of microtubers in potato (*Solanum tuberosum l.*), Postgraduate, S.BEYAZOVA(Student), 1999
ÖKTEM H. A., Öktem H., Identification of inositol 1,4,5-Trisphosphate(IP) receptors in wheat(*triticum aestivum*), Doctorate, N.Maki(Student), 1998
ÖKTEM H. A., Öktem H., Regeneration and agrobacterium mediated transformation studies in different tomato (*Lycopersicon esculentum Mill*) cultivars, Postgraduate, Y.Bülbül(Student), 1998
ÖKTEM H. A., Regeneration and agrobacterium mediated transformation studies in different tomato cultivars, Postgraduate, Y.BÜLBÜL(Student), 1998
ÖKTEM H. A., Effect of arachidonic acid on binding properties of opioid receptors, Postgraduate, S.APAYDIN(Student),

1997

ÖKTEM H. A., Öktem H., Agrobacterium mediated gene transfer in tobacco, Postgraduate, M.Mahmoudian(Student), 1995
ÖKTEM H. A., Characterization of lipid composition of wheat varieties under stress conditions, Postgraduate,
A.SOYDAN(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fluorescent silica nanoparticles as nano-chemosensors for the sequential detection of Pb²⁺ 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, vol.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, vol.23, no.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, vol.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, vol.195, no.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, vol.103, no.20, pp.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 H₂O₂-induced oxidative stress and apoptosis in human cells**
Bulut O., Sönmez Ç., ÖKTEM H. A.
Phycologia, vol.62, no.4, pp.293-302, 2023 (SCI-Expanded)
- VIII. **Inorganic Cadmium Detection Using a Fluorescent Whole-Cell Bacterial Bioreporter**
Elcin E., ÖKTEM H. A.
ANALYTICAL LETTERS, vol.53, no.17, pp.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, vol.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, vol.18, no.1, pp.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, vol.16, no.10, pp.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, vol.377, pp.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, vol.31, no.3, pp.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 DERGİSİ, vol.44, no.2, pp.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, vol.4, no.7, pp.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, vol.56, no.1, pp.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, vol.30, no.6, pp.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, vol.9, no.5, pp.811-820, 2018 (SCI-Expanded)
- XIX. **Eriochrome Black T-Eu³⁺ 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, vol.90, no.6, pp.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, vol.43, no.1, pp.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, vol.251, pp.128-134, 2018 (SCI-Expanded)
- XXII. **Ratiometric fluorescence detection of an anthrax biomarker with Eu³⁺-chelated chitosan biopolymers**
Donmez M., ÖKTEM H. A., Yilmaz M. D.
CARBOHYDRATE POLYMERS, vol.180, pp.226-230, 2018 (SCI-Expanded)
- XXIII. **DNA aptamer-based colorimetric detection platform for *Salmonella Enteritidis***
BAYRAÇ C., EYİDOĞAN F., ÖKTEM H. A.
BIOSENSORS & BIOELECTRONICS, vol.98, pp.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, vol.30, no.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, vol.35, no.1, pp.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, vol.41, no.6, pp.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, vol.211, pp.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, vol.40, no.4, pp.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, vol.141, no.8, pp.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, vol.40, no.5, pp.363-369, 2015 (SCI-Expanded)
- XXXI. Generating salt-tolerant *Nicotiana tabacum* and identification of stress-responsive miRNAs in
transgenics
AYSIN F., Erson-Bensan A. E., Eyidogan F., ÖKTEM H. A.
TURKISH JOURNAL OF BOTANY, vol.39, no.5, pp.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, vol.1223, pp.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, vol.67, no.4, pp.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, vol.62, no.1, pp.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, vol.52, no.4, pp.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, vol.169, pp.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, vol.50, no.67, pp.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, vol.8, no.3, pp.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, vol.447, pp.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, vol.38, no.2, pp.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.
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