

Prof. HÜSEYİN AVNİ ÖKTEM

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-3287-2020

ScopusID: 6701805729

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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., Development of a loop mediated isothermal amplification (LAMP) assay for identification of meat species, Postgraduate, D.ÖZDEN(Student), 2024
- ÖKTEM H. A., Assessment of antimicrobial and coagulant activities of CBRN decontamination materials, Postgraduate, B.ÇAĞRI(Student), 2022
- Tezcaner A., Öktem H. A., Evaluation of performance of arsenic bioreporter immobilized electrospun membranes for arsenic detection in water, Doctorate, N.ARIK(Student), 2022
- 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., 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 nucleic acid coated nanoparticle based lateral flow assay for e.coli detection, Postgraduate, D.Bingöl(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., 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
- 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
- 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., 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 diagnostic platforms for single nucleotide polymorphism detection, Doctorate, O.AKÇA(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., Development of nucleic acid based lateral flow immunochromatographic test platform for salmonella detection, Postgraduate, O.Bulut(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., 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 sandwich type nucleic acid array platform for the detection of microRNAs in breast cancer,

Postgraduate, S.ATILGAN(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 tütüne (*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., In vitro selection of DNA aptamers to Glioblastoma multiforme, Doctorate, A.TAHİR(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., Expression analysis of NAC type transcription factors on wheat seedlings under abiotic stress conditions, Doctorate, M.CENGİZ(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., Development of salt resistant transgenic plants by using TaNHX1 and TaSTR genes, Doctorate, M.KAVAS(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., Optimization of mature embryo based regeneration and genetic transformation of Turkish wheat cultivars, Postgraduate, A.BATTAL(Student), 2010

ÖKTEM H. A., Development of acetylcholinesterase biosensor for the detection of pesticides, Postgraduate, M.KAVRUK(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., 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., 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., 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., Regeneration of lentil (*Lens culinaris* Medik) and genetic transformation by using *Agrobacterium tumefaciens*-mediated gene transfer, Doctorate, U.ÇELİKKOL(Student), 2008

ÖKTEM H. A., Development of paper type tyrosinase biosensor, Postgraduate, Ö.ŞENYURT(Student), 2008

ÖKTEM H. A., ERSON BENSAN 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., Development of QCM based DNA biosensors for detection of genetically modified organisms, Doctorate, İ.KARAMOLLAOĞLU(Student), 2007

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., Transformation of tobacco (*Nicotiana tabacum*) with antimicrobial pflp gene and analysis of transgenic plants, Postgraduate, T.Tuncer(Student), 2006

ÖKTEM H. A., Plazmit DNA saflaştırılması işleminde kullanılmak üzere magnetik afinite mikrokürelerin hazırlanması, Postgraduate, M.ÜRÜN(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., Effect of lipids on binding characteristics of opiod receptors, Doctorate, S.Apaydın(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., 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.TAHİR(Student), 2004

ÖKTEM H. A., Extension of flower longevity in transgenic plants via antisense blockage of ethylene biosynthesis, Postgraduate, B.DEÇANİ(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., Optimisation of Agrobacterium mediated gene transfer and micrografting systems in lentil (*Lens culinaris* Medik), Postgraduate, H.KAMÇI(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., Optimization of regeneration and transformation conditions for chickpea (*Cicer arietinum* L.), Doctorate, M.AKBULUT(Student), 2003

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., Optimization of an integrated bombardment and agrobacterium infiltration based transformation system for lentil, Postgraduate, U.ÇELİKKOL(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., Effect of salt stress on the antioxidant defense system in lentil (*Lens culinaris* M.) seedlings, Postgraduate, E.BANDEOĞLU(Student), 2001

ÖKTEM H. A., Öktem H., Genetic transformation of tobacco with HS1(PRO1) gene and evaluation of nematode resistance in transgenic plants, Postgraduate, Ç.Altun(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.ALTUN(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., Biochemical and physiological aspects of boron toxicity in wheat and barley, Doctorate, H.Mahboobi(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

HAMAMCI H., ÖKTEM H. A., Optimisation of tissue culture conditions and gene transfer studies in lentil, Doctorate, M.MAHMOUDIAN(Student), 2000

ÖKTEM H. A., Isolation and biochemical characterization of α -amylase inhibitor from common bean (*phaseolus vulgaris* L.), Postgraduate, Z.AKYOL(Student), 2000

ÖKTEM H. A., F1-F3 progeny analysis of herbicide resistant transgenic tobacco plant, Postgraduate, A.ARPAT(Student), 1999

ÖKTEM H. A., Production of microtubers in potato (*Solanum tuberosum* L.), Postgraduate, S.BEYAZOVA(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., HAMAMCI H., F-F progeny analysis of herbicide resistant transgenic tobacco plant, Postgraduate, A.Bulak(Student), 1999

ÖKTEM H. A., Regeneration and agrobacterium mediated transformation studies in different tomato cultivars, Postgraduate, Y.BÜLBÜL(Student), 1998

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., 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. **Antioxidant activity of *Micractinium* sp. (Chlorophyta) extracts against H₂O₂ induced oxidative stress in human breast adenocarcinoma cells**
Bulut O., Köse I. E., Sönmez Ç., ÖKTEM H. A.
Scientific reports, vol.14, no.1, pp.27593, 2024 (SCI-Expanded)
- II. **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), vol.45, no.23, pp.4874-4886, 2024 (SCI-Expanded)
- III. **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)
- IV. **Establishment of Stable Genetic Transformation Conditions for Novel Thermotolerant *Scenedesmus* sp. (Chlorophyta)**
Akn D., Sönmez Ç., YÜCEL M., ÖKTEM H. A.
Turkish Journal of Fisheries and Aquatic Sciences, vol.23, no.11, 2023 (SCI-Expanded)
- V. **Designing of rapid assay for the detection of RdRp/Orf1ab specific to SARS-CoV-2**
Derin D. Ç., Gültekin E., Taşkın I. İ., OTLU B., ÖKTEM H. A.
Journal of Virological Methods, vol.320, 2023 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. ***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)
- 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. **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)
- XI. **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)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **Molecular detection of *Bacillus anthracis*: evaluation of the efficiency of DNA extraction and a novel dry PCR**
Ortatatli M., Kenar L., Sezigen S., Eyison K., Oktem H. A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.2, pp.147-152, 2019 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- 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.
BIORESOURTE TECHNOLOGY, vol.251, pp.128-134, 2018 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)

- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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.
BIORESOURTE TECHNOLOGY, vol.211, pp.422-428, 2016 (SCI-Expanded)
- XXIX. **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)
- XXX. **Small molecule detection by lateral flow strips via aptamer-gated silica nanopores**
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)
- XXXI. **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 DERGISI, vol.40, no.5, pp.363-369, 2015 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **Lentil (*Lens culinaris* Medik)**
Akcay U. C., Yucel M., ÖKTEM H. A.
AGROBACTERIUM PROTOCOLS, VOL 1, 3RD EDITION, vol.1223, pp.265-274, 2015 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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.
BIORESOURTE TECHNOLOGY, vol.169, pp.62-71, 2014 (SCI-Expanded)
- XXXVIII. **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)

- XXXIX. **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)
- XL. **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.
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- XLI. **Transgenic *Nicotiana tabacum* cultivar Samsun plants carrying the wild sugar beet *Hs1pro1* gene have resistance to root-knot nematodes**
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