

# Prof. HÜSEYİN AVNİ ÖKTEM

## Personal Information

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## Education Information

Doctorate, Jozsef Attila Üniversitesi, Biyokimya, Hungary 1987 - 1990

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Biyokimya (YI) (Tezli), Turkey 1985 - 1987

Under Graduate, 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

Post Graduate, 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 Gıda Ve Tarım Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, 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

## Professional Experience

Rector, Konya Gıda Ve Tarım Üniversitesi, 2015 - Continues

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

## Advising Theses

- ÖKTEM H. A. , Development of wholecell bioreporters for detection of boric acid, cyanide and paraquat, Post Graduate, 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. , Development of a loop mediated isothermal amplification (LAMP) based detection platform for genetically modified organism (GMO) detection, Post Graduate, A.Nazlı(Student), 2019
- ÖKTEM H. A. , Development of nucleic acid coated nanoparticle based lateral flow assay for e.coli detection, Post Graduate, D.Bingöl(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, Post Graduate, 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, Post Graduate, S.YAĞMUR(Student), 2015
- ÖKTEM H. A. , YÜCEL A. M. , 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. , Bio-fuel production from microalgae, Doctorate, M.ONAY(Student), 2015
- ÖKTEM H. A. , YÜCEL A. M. , Development of newborn galactosemia screening kits /, Post Graduate, S.Yağmur(Student), 2015
- ÖKTEM H. A. , Öktem H., Optimization of hypericin extraction from hypericum perforatum L. tissues and evaluation of its applicability in dye-sensitized solar cells /, Post Graduate, Ö.Aktuna(Student), 2014
- ÖKTEM H. A. , Development of nucleic acid based lateral flow immunochromatic test platform for Salmonella detection, Post Graduate, O.BULUT(Student), 2014
- ÖKTEM H. A. , Development of reference materials for GMO detection /, Post Graduate, B.BİROL(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 sandwich type nucleic acid array platform for the detection of microRNAs in breast cancer, Post Graduate, S.ATILGAN(Student), 2014
- ÖKTEM H. A. , Development of diagnostic platforms for single nucleotide polymorphism detection, Doctorate, O.AKÇA(Student), 2014
- ÖKTEM H. A. , Optimization of hypericin extraction from Hypericum perforatum L. tissues and evaluation of its applicability in dye-sensitized solar cells, Post Graduate, Ö.AKTUNA(Student), 2014
- ÖKTEM H. A. , Development of nucleic acid based lateral flow immunochromatographic test platform for salmonella detection, Post Graduate, O.Bulut(Student), 2014
- ÖKTEM H. A. , Development of nanoparticle and nanotextile based decontamination systems for biological agents, Post Graduate, Ö.KALMAN(Student), 2013
- ÖKTEM H. A. , Bor taşıyıcısı HvBor1a geninin tütüne (Nicotiana tabacum) aktarılması ve transgenik bitkilerin analizleri, Post Graduate, 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. , Expression analysis of NAC type transcription factors on wheat seedlings under abiotic stress conditions, Doctorate, M.CENGİZ(Student), 2011
- ÖKTEM H. A. , Isolation and characterization of taq DNA polymerase and optimization and validation of newly designed thermal cyclers, Post Graduate, L.YILDIZ(Student), 2011
- ÖKTEM H. A. , In vitro selection of DNA aptamers to Glioblastoma multiforme, Doctorate, A.TAHİR(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

ÖZEN C., ÖKTEM H. A. , Development of a sandwich-type dna array platform for the detection of label-free oligonucleotide targets, Post Graduate, 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 label-free PCR products, Post Graduate, F.Gül(Student), 2010

ÖKTEM H. A. , Optimization of mature embryo based regeneration and genetic transformation of Turkish wheat cultivars, Post Graduate, 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, Post Graduate, F.GÜL(Student), 2010

ÖKTEM H. A. , Development of acetylcholinesterase biosensor for the detection of pesticides, Post Graduate, M.KAVRUK(Student), 2010

ÖZEN C., ÖKTEM H. A. , The development of alkaline phosphatase based paper bioreporter for evaluation of milk pasteurization, Post Graduate, 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, Post Graduate, 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, Post Graduate, 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, Post Graduate, Ö.ŞENYURT(Student), 2008

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

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

ÖKTEM H. A. , Plazmit DNA saflaştırılması işleminde kullanılmak üzere magnetik afinite mikrokürelerin hazırlanması, Post Graduate, M.ÜRÜN(Student), 2006

ÖKTEM H. A. , Transformation of tobacco (*Nicotiana tabacum*) with antimicrobial *pflp* gene and analysis of transgenic plants, Post Graduate, 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 selection conditions and *agrobacterium* mediated transformation of chickpea (*cicer arietinum* L. cv. Gökçe), Post Graduate, M.Tufan(Student), 2005

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

ÖKTEM H. A. , Effect of lipids on binding characteristics of opioid receptors, Doctorate, S.Apaydın(Student), 2005

ÖKTEM H. A. , Optimisation of *Agrobacterium* mediated gene transfer and micrografting systems in lentil (*Lens culinaris* Medik), Post Graduate, H.KAMÇI(Student), 2004

ÖKTEM H. A. , Optimization of regeneration and *Agrobacterium* mediated transformation of wheat (*Triticum aestivum* L.cv. Yüreğir 89), Post Graduate, D.DEMİRBAŞ(Student), 2004

ÖKTEM H. A. , Extension of flower longevity in transgenic plants via antisense blockage of ethylene biosynthesis, Post Graduate, B.DEÇANİ(Student), 2004

ÖKTEM H. A. , Optimization of a regeneration and transformation system for lentil (*Lens culinaris* M.,cv.Sultan-I) cotyledonary petioles and epicotyls, Post Graduate, 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 a regeneration and transformation system for lentil (*lens culinaris* M., cv. Sultan-I) cotyledonary petioles and epicotyls, Post Graduate, 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, Post Graduate, E.KARABAL(Student), 2002

ÖKTEM H. A. , Optimization of an integrated bombardment and agrobacterium infiltration based transformation system for lentil, Post Graduate, U.ÇELİKKOL(Student), 2002

ÖKTEM H. A. , Genetic transformation of potato with P5CS gene and evaluation of salt resistance in transgenic plants, Post Graduate, M.SİMİN(Student), 2002

ÖKTEM H. A. , Effect of salt stress on the antioxidant defense system in lentil (*Lens culinaris* M.) seedlings, Post Graduate, E.BANDEOĞLU(Student), 2001

ÖKTEM H. A. , Genetic transformation of tobacco with Hs1(pro-1) gene and evaluation of nematode resistance in transgenic plants, Post Graduate, Ç.ALTUN(Student), 2001

ÖKTEM H. A. , Öktem H., Genetic transformation of tobacco with HS1(PRO1) gene and evaluation of nematode resistance in transgenic plants, Post Graduate, 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. , Agrobacterium-mediated genetic transformation and microtuberization of potato (*solanum tuberosum* L.), Post Graduate, İ.KARAMOLLAOĞLU(Student), 2000

ÖKTEM H. A. , Öktem H., Isolation and biochemical characterization of a-Amylase inhibitor from common bean (*Phaseolus vulgaris* L.), Post Graduate, 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. , Isolation and biochemical characterization of alfa-amylase inhibitor from common bean (*phaseolus vulgaris* L.), Post Graduate, Z.AKYOL(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. , 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, Post Graduate, A.ARPAT(Student), 1999

ÖKTEM H. A. , Development of phosphinotricin resistant transgenic tobacco plants by detoxification and overexpression approaches, Post Graduate, B.MELTEM(Student), 1999

ÖKTEM H. A. , HAMAMCI H., F-F progeny analysis of herbicide resistant transgenic tobacco plant, Post Graduate, A.Bulak(Student), 1999

ÖKTEM H. A. , Production of microtubers in potato (*Solanum tuberosum* l.), Post Graduate, S.BEYAZOVA(Student), 1999

ÖKTEM H. A. , Öktem H., Regeneration and agrobacterium mediated transformation studies in different tomato (*Lycopersicon esculentum* Mill) cultivars, Post Graduate, 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. , Regeneration and agrobacterium mediated transformation studies in different tomato cultivars, Post Graduate, Y.BÜLBÜL(Student), 1998

ÖKTEM H. A. , Effect of arachidonic acid on binding properties of opioid receptors, Post Graduate, S.APAYDIN(Student), 1997

ÖKTEM H. A. , Öktem H., Agrobacterium mediated gene transfer in tobacco, Post Graduate, M.Mahmoudian(Student), 1995

ÖKTEM H. A. , Characterization of lipid composition of wheat varieties under stress conditions, Post Graduate, A.SOYDAN(Student), 1995

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **Inorganic Cadmium Detection Using a Fluorescent Whole-Cell Bacterial Bioreporter**  
Elcin E., ÖKTEM H. A.  
ANALYTICAL LETTERS, vol.53, is.17, pp.2715-2733, 2020 (Journal Indexed in SCI)
- III. **Immobilization of fluorescent bacterial bioreporter for arsenic detection**  
ELÇİN E., ÖKTEM H. A.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.18, is.1, pp.137-148, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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, is.3, pp.1675-1683, 2019 (Journal Indexed in SCI)
- VI. **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, is.7, pp.2084-2088, 2019 (Journal Indexed in SCI)
- VII. **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, is.1, pp.140-148, 2019 (Journal Indexed in SCI)
- VIII. **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, is.6, pp.3483-3492, 2018 (Journal Indexed in SCI)
- IX. **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, is.5, pp.811-820, 2018 (Journal Indexed in SCI)
- X. **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, is.6, pp.4221-4225, 2018 (Journal Indexed in SCI)
- XI. **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.  
BIORESOURTECHNOLOGY, vol.251, pp.128-134, 2018 (Journal Indexed in SCI)
- XII. **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, is.1, pp.97-104, 2018 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **DNA aptamer-based colorimetric detection platform for Salmonella Enteritidis**  
BAYRAÇ C., EYİDOĞAN F., ÖKTEM H. A.  
BIOSENSORS & BIOELECTRONICS, vol.98, pp.22-28, 2017 (Journal Indexed in SCI)

- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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, is.4, pp.727-735, 2016 (Journal Indexed in SCI)
- XX. **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, is.8, pp.2595-2599, 2016 (Journal Indexed in SCI)
- XXI. **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, is.4, pp.1303-1312, 2015 (Journal Indexed in SCI)
- XXII. **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, is.1, pp.132-136, 2015 (Journal Indexed in SCI)
- XXIII. **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, is.5, pp.757-769, 2015 (Journal Indexed in SCI)
- XXIV. **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, is.5, pp.363-369, 2015 (Journal Indexed in SCI)
- XXV. **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, is.4, pp.555-563, 2014 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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, is.3, pp.295-304, 2014 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **Transgenic *Nicotiana tabacum* cultivar Samsun plants carrying the wild sugar beet Hs1pro1 gene have resistance to root-knot nematodes**  
Sonmez C., ELEKÇİOĞLU İ. H. , YÜCEL A. M. , ÖKTEM H. A.  
TURKISH JOURNAL OF BIOLOGY, vol.38, is.2, pp.200-207, 2014 (Journal Indexed in SCI)
- XXX. **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, vol.97, is.21, pp.9541-9551, 2013 (Journal Indexed in SCI)
- XXXI. **Antimicrobial aptamers for detection and inhibition of microbial pathogen growth**  
Ozalp V. C. , Bilecen K., Kavruk M., Oktem H. A.  
FUTURE MICROBIOLOGY, vol.8, no.3, pp.387-401, 2013 (Journal Indexed in SCI)
- XXXII. **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, vol.23, no.3, pp.906-912, 2013 (Journal Indexed in SCI)
- XXXIII. **Portable Bioactive Paper-Based Sensor for Quantification of Pesticides**  
Kavruk M., Ozalp V. C. , Oktem H. A.  
JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY, 2013 (Journal Indexed in SCI)
- XXXIV. **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, vol.56, is.4, pp.693-698, 2012 (Journal Indexed in SCI)
- XXXV. **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, vol.30, is.5, pp.1246-1252, 2012 (Journal Indexed in SCI)
- XXXVI. **Development of an On-Chip Approach for Oligonucleotide Ligation Mediated SNP Detection**  
Akca O., Oz M. T. , ÖKTEM H. A.  
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)
- XXXVII. **Transformation of *Nicotiana tabacum* with a NAC-type transcription factor, TaNAC69-1**  
EROĞLU A. Ü. , ÖKTEM H. A. , YÜCEL M.  
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)
- XXXVIII. **1.1.19 Bio-fuel production from olive oil by transesterification reactions**  
Onay M., Yucel M., ÖKTEM H. A.  
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)
- XXXIX. **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, vol.29, 2012 (Journal Indexed in SCI)
- XL. **Development of a portable bioagent detection and early warning system**  
ÖKTEM H. A.  
NEW BIOTECHNOLOGY, vol.29, 2012 (Journal Indexed in SCI)
- XLI. **Boron toxicity and deficiency in Triticeae: Update on tolerance mechanisms and transporters**  
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