

Prof. HÜLYA AYAR KAYALI

Personal Information

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International Researcher IDs

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ScopusID: 6603586401

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2002 - 2005

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Turkey 1999 - 2001

Undergraduate, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1993 - 1997

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Personal Evolution, KOBİ'ler için Proje Yazma Kampı (Fiziksel), T.C. Ministry of Industry and Technology, 2022

Dissertations

Doctorate, The Investigation on SOD, GSH-Px, CAT activities and LPO levels variations in some fusarium species depend on growth medium, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2000

Postgraduate, The Investigation on SOD, GSH-Px, CAT activities and LPO levels variations in some fusarium species depend on growth medium, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), 2000

Research Areas

Pharmacology and Therapeutics, Basic Pharmaceutics Sciences, Pharmaceutics Technology, Biochemistry, Biotechnology, Molecular Biology and Genetics, Chemistry

Academic Titles / Tasks

Professor, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, 2014 - Continues

Associate Professor, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Lecturer PhD, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2007 - 2009

Research Assistant, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1998 - 2007

Courses

Ph.D.Thesis, Doctorate, 2023 - 2024

Biyolojik Moleküllerin Analizinde HPLC , Postgraduate, 2023 - 2024

Endüstriyel Farmasötik Biyoteknolojisi, Postgraduate, 2023 - 2024

Biyokimya Laboratuvarı I, Undergraduate, 2023 - 2024

Ph.D. Research, Doctorate, 2023 - 2024

M.Sc. Research, Postgraduate, 2023 - 2024

Biyokimya II, Undergraduate, 2022 - 2023

Thesis, Postgraduate, 2023 - 2024

Biyokimyada Temel Teknikler, Undergraduate, 2022 - 2023

Ph.D. Seminar, Doctorate, 2021 - 2022

Biyokimya I, Undergraduate, 2021 - 2022

Biyokimya Laboratuvarı III, Undergraduate, 2020 - 2021

Bitirme Projesi, Undergraduate, 2018 - 2019

Biyokimyada Temel Teknikler , Undergraduate, 2018 - 2019

Genetik Değişim ve Hastalıkları , Undergraduate, 2016 - 2017

Bitirme Projesi, Undergraduate, 2017 - 2018

KİMYA II, Undergraduate, 2016 - 2017

Mikrobiyal Biyoteknoloji, Postgraduate, 2016 - 2017

Enzimoloji: Rekombinant DNA Teknolojisi, Postgraduate, 2016 - 2017

Biyokimya III, Undergraduate, 2016 - 2017

M.Sc. Seminar, Postgraduate, 2016 - 2017

Biyokimya III, Undergraduate, 2016 - 2017

Bitirme Projesi, Undergraduate, 2016 - 2017

Advising Theses

Ayar Kayalı H., Rekombinant L-Asparaginaz Üretimi, Doctorate, M.J.(Student), Continues

Ayar Kayalı H., Bioinformatic Investigation of the Potential Role of Innate-like T Cells and Death Receptor Signalling

Pathways in the Tumour Microenvironment, Doctorate, P.BHEKIWE(Student), Continues

Ayar Kayalı H., Investigation of Protein Kinase C Alpha (PKC α) and Matrix Metalloproteinase (MMP) Targeted

Therapeutic Strategies for Ovarian Cancer, Postgraduate, O.ÖZKAYA(Student), Continues

Ayar Kayalı H., Recombinant Production of Bacterial Endoglycosidase Enzyme, Postgraduate, U.DURAK(Student), Continues

Ayar Kayalı H., Investigation of antitumor characteristics of new metal complex in cancer cell lines, Postgraduate, F.KAYHAN(Student), Continues

Ayar Kayalı H., DEVELOPMENT OF EXOSOME CONJUGATED NEW GENERATION DRUGS, Doctorate, E.ÇAĞATAY(Student), 2024

Ayar Kayalı H., Development of Cancer Metabolism Targeted Exosome Drug Delivery Systems Against Drug- Resistant Ovarian Cancer, Doctorate, Y.GÜNGÖR(Student), 2023

Ayar Kayalı H., Producing of recombinant beta-galactosidase enzyme to reduce lactose intolerance, Postgraduate, A.ÇOLAK(Student), 2023

Ayar Kayalı H., Production and characterization of new generation drugs targeting tubulin polymerization, Doctorate,

S.GÜLER(Student), 2023

Ayar Kayalı H., Synthesis and Characterization of Antibody-Drug Conjugate Based Next Generation Therapeutics for Ovarian Cancer Treatment, Doctorate, D.ERDOĞAN(Student), 2023

Ayar Kayalı H., Targeting protein kinase c inhibition in colon cancer therapy, Postgraduate, Y.KOZALI(Student), 2023

Ayar Kayalı H., Şentürk Ş., INVESTIGATION OF THE EFFECTS OF 2-HYDROXYGLUTARATE ONCOMETABOLITE ON COLON CANCER METABOLISM ON CELL MODELS GENERATED BY CRISPR/CAS9-BASED GENE THERAPY AND IN VIVO MODELS, Doctorate, E.BULUT(Student), 2022

AYAR KAYALI H., ŞENTÜRK Ş., Cas9-Tabanlı Gen Terapisi ile Oluşturulan Hücre Modelleri ve In Vivo Modeller Üzerinde İncelenmesi, Doctorate, E.BULUT(Student), 2022

AYAR KAYALI H., Yumurtalık tümör mikroçevresindeki hücrelerde tümör oluşumu ve gelişiminin eksozom aracılığıyla uyarılması, Postgraduate, G.YILMAZ(Student), 2020

AYAR KAYALI H., İnsan EpCAM'ın ekstrasellüler bölgesinin moleküler klonlanması ve rekombinant üretimi, Postgraduate, E.NABIL(Student), 2019

AYAR KAYALI H., Rutenyum komplekslerinin ovaryum kanseri üzerindeki etkisi, Postgraduate, G.ÇIRAK(Student), 2019

AYAR KAYALI H., Bitki sekonder metabolitlerinin ökaryotik modellerde metabolizmaya etkisinin araştırılması, Doctorate, Z.TAVŞAN(Student), 2017

AYAR KAYALI H., Ramoplanin antibiyotiğinin derin kültür fermentasyonu ile üretimi, Postgraduate, D.ERKAN(Student), 2015

AYAR KAYALI H., Ökaryotik modelde cisplatin antitümör ajanının elektron transport sistemi üzerine etkisinin araştırılması, Postgraduate, G.KURŞUNLUOĞLU(Student), 2013

AYAR KAYALI H., Aktinomisetlerden besi ortam koşullarına bağımlı antibiyotik üretiminin optimizasyonu, Postgraduate, C.MEHMET(Student), 2013

AYAR KAYALI H., Trichoderma harzianumda organofosfatlı pestisitlerden bromopropilatın bazı metabolitler ve mitokondriyel elektron transport enzimleri üzerine etkisi, Postgraduate, Z.TAVŞAN(Student), 2011

AYAR KAYALI H., Effect of the problem based learning applied to student achievement in biochemistry to ?coenzyme? issue, Postgraduate, A.KARADAŞ(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Wild-type IDH1 Knockout Leads to G0/G1 Arrest, Impairs Cancer Cell Proliferation, Altering Glycolysis, and the TCA Cycle in Colon Cancer**
Atalay E. B., Senturk Ş., Kayali H.
BIOCHEMICAL GENETICS, vol.61, no.4, pp.1470-1486, 2023 (SCI-Expanded)
- II. **Exosomes released from cisplatin-resistant ovarian cancer cells modulate the reprogramming of cells in tumor microenvironments toward the cancerous cells**
Yilmaz G., Tavsan Z., Gagatay E., Kursunluoglu G., AYAR KAYALI H.
Biomedicine and Pharmacotherapy, vol.157, 2023 (SCI-Expanded)
- III. **The elevated D-2-hydroxyglutarate level found as a characteristic metabolic change of colon cancer in both in vitro and in vivo models**
Bulut Atalay E., Ayar Kayali H.
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol.627, pp.191-199, 2022 (SCI-Expanded)
- IV. **Half-Sandwich Arene Ruthenium(II) Thiosemicarbazone Complexes: Evaluation of Anticancer Effect on Primary and Metastatic Ovarian Cancer Cell Lines**
Guler S., Kayali H. A., Sadan E. O., ŞEN YÜKSEL B., SUBAŞI E.
FRONTIERS IN PHARMACOLOGY, vol.13, 2022 (SCI-Expanded)
- V. **Could lysosomal acid lipase enzyme activity be used for clinical follow-up in cryptogenic cirrhosis?**
KÖSE E., Gagatay E., Yaras T., Kisa P., Guler S., Gulden Z. A., AKARSU M., OKTAY Y., AYAR KAYALI H., ARSLAN N.
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.52, no.4, pp.1075-1084, 2022 (SCI-Expanded)
- VI. **Synthesis of Murrayquinone-A Derivatives and Investigation of Potential Anticancer Properties**
Gagatay E., AKYILDIZ V., Ergun Y., AYAR KAYALI H.

- CHEMISTRY & BIODIVERSITY, vol.18, no.11, 2021 (SCI-Expanded)
- VII. **Flavonoids regulate cell death-related cellular signaling via ROS in human colon cancer cells**
DÜKEL M., Tavsan Z., Kayali H.
PROCESS BIOCHEMISTRY, vol.101, pp.11-25, 2021 (SCI-Expanded)
- VIII. **Protein Kinase C regulates the complex between cell membrane molecules in ovarian cancer**
Tavsan Z., Kayali H.
PROCESS BIOCHEMISTRY, vol.92, pp.182-189, 2020 (SCI-Expanded)
- IX. **Synthesis and characterization of thiosemicarbazone-functionalized organoruthenium (II)-arene complexes: Investigation of antitumor characteristics in colorectal cancer cell lines**
SUBAŞI E., Atalay E. B., Erdogan D., Sen B., Pakyapan B., Kayali H.
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.106, 2020 (SCI-Expanded)
- X. **EpCAM-claudin-tetraspanin-modulated ovarian cancer progression and drug resistance**
Tavsan Z., Ayar Kayali H.
CELL ADHESION & MIGRATION, vol.14, no.1, pp.57-68, 2020 (SCI-Expanded)
- XI. **Flavonoids showed anticancer effects on the ovarian cancer cells: Involvement of reactive oxygen species, apoptosis, cell cycle and invasion**
Tavsan Z., Kayali H.
BIOMEDICINE & PHARMACOTHERAPY, vol.116, 2019 (SCI-Expanded)
- XII. **Crystal structures, spectroscopic properties of new cobalt(II), nickel(II), zinc (II) and palladium(II) complexes derived from 2-acetyl-5-chloro thiophene thiosemicarbazone: Anticancer evaluation**
Sen B., Kalhan H. K., Demir V., Guler E. E., AYAR KAYALI H., SUBAŞI E.
MATERIALS SCIENCE AND ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.98, pp.550-559, 2019 (SCI-Expanded)
- XIII. **Protein kinase C Inhibitors selectively modulate dynamics of cell adhesion molecules and cell death in human colon cancer cells**
DÜKEL M., Tavsan Z., Erdogan D., Gok D. E., Kayali H.
CELL ADHESION & MIGRATION, vol.13, no.1, pp.83-97, 2019 (SCI-Expanded)
- XIV. **The Investigation of the Antitumor Agent Toxicity and Capsaicin Effect on the Electron Transport Chain Enzymes, Catalase Activities and Lipid Peroxidation Levels in Lung, Heart and Brain Tissues of Rats**
Kursunluoglu G., TAŞKIRAN D., Kayali H.
MOLECULES, vol.23, no.12, 2018 (SCI-Expanded)
- XV. **Screening organometallic thiophene containing thiosemicarbazone ruthenium (II/III) complexes as potential anti-tumour agents**
Tavsan Z., KÖSE YAMAN P., SUBAŞI E., AYAR KAYALI H.
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.23, no.3, pp.425-435, 2018 (SCI-Expanded)
- XVI. **Replacement of Soybean Meal with Animal Origin Protein Meals Improved Ramoplanin A2 Production by Actinoplanes sp ATCC 33076**
Erkan D., AYAR KAYALI H.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.180, no.2, pp.306-321, 2016 (SCI-Expanded)
- XVII. **The Variations of Glycolysis and TCA Cycle Intermediate Levels Grown in Iron and Copper Mediums of Trichoderma harzianum**
Tavsan Z., AYAR KAYALI H.
Applied Biochemistry and Biotechnology, vol.176, no.1, pp.76-85, 2015 (SCI-Expanded)
- XVIII. **The Effect of Cisplatin Toxicity and Capsaicin on Electron Transport Chain in Liver and Kidney of Sprague Dawley Rats**
Kursunluoglu G., AYAR KAYALI H., TAŞKIRAN D.
CELL BIOCHEMISTRY AND BIOPHYSICS, vol.69, no.3, pp.707-716, 2014 (SCI-Expanded)
- XIX. **Influence of the oxidative stress induced by the organophosphate pesticide bromopropylate on the mitochondrial respiratory chain in Trichoderma harzianum**

- Tavsan Z., AYAR KAYALI H.
PROCESS BIOCHEMISTRY, vol.49, no.5, pp.745-750, 2014 (SCI-Expanded)
- XX. **EpCAM Controls Actomyosin Contractility and Cell Adhesion by Direct Inhibition of PKC**
Maghzal N., Kayali H., Rohani N., Kajava A. V., Fagotto F.
DEVELOPMENTAL CELL, vol.27, no.3, pp.263-277, 2013 (SCI-Expanded)
- XXI. **The Effect of Iron and Copper as an Essential Nutrient on Mitochondrial Electron Transport System and Lipid Peroxidation in Trichoderma harzianum**
Tavsan Z., AYAR KAYALI H.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.170, no.7, pp.1665-1675, 2013 (SCI-Expanded)
- XXII. **The glutathione-related detoxication responses to juvenile and ecdysone hormones in Galleria mellonella**
Tarhan L., Kayali H., Karacali S.
COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY C-TOXICOLOGY & PHARMACOLOGY, vol.158, no.2, pp.117-121, 2013 (SCI-Expanded)
- XXIII. **The investigation of the organophosphate pesticide bromopropylate effect on electron transport system enzymes and lipid peroxidation levels in Trichoderma harzianum**
Tavsan Z., AYAR KAYALI H.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXIV. **The influence of organophosphate pesticide bromopropylate on organic acids production of Trichoderma harzianum**
Tavsan Z., AYAR KAYALI H.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXV. **Simulation of Microbial Production of Ramoplanin via Stoichiometric Modeling from Actinoplanes sp ATCC 33076**
Altintas C. M., ERTAŞ G., AYAR KAYALI H.
NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XXVI. **THE VARIATION OF ANTIOXIDANT DEFENSE SYSTEM OF Streptomyces sp M4018 WITH RESPECT TO CARBON SOURCES**
AYAR KAYALI H., Sazak A., ŞAHİN N., Tarhan L.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.42, no.4, pp.322-334, 2012 (SCI-Expanded)
- XXVII. **Carbohydrate Metabolite Pathways and Antibiotic Production Variations of a Novel Streptomyces sp M3004 Depending on the Concentrations of Carbon Sources**
AYAR KAYALI H., Tarhan L., Sazak A., ŞAHİN N.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.165, no.1, pp.369-381, 2011 (SCI-Expanded)
- XXVIII. **The Correlations Between TCA-Glyoxalate Metabolite and Antibiotic Production of Streptomyces sp M4018 Grown in Glycerol, Glucose, and Starch Mediums**
Tarhan L., AYAR KAYALI H., Sazak A., ŞAHİN N.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.164, no.3, pp.318-337, 2011 (SCI-Expanded)
- XXIX. **Immobilization of Phenylalanine Dehydrogenase and Its Application in Flow-Injection Analysis System for Determination of Plasma Phenylalanine**
Tarhan L., AYAR KAYALI H.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.163, no.2, pp.258-267, 2011 (SCI-Expanded)
- XXX. **ANTIOXIDANT ACTIVITIES OF ENDEMIC SIDERITIS LEPTOCLADA AND MENTHA DUMETORUM AQUEOUS EXTRACTS USED IN TURKEY FOLK MEDICINE**
AYAR KAYALI H., ÖZTÜRK ÜREK R., Nakiboglu M., Tarhan L.
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.33, no.3, pp.285-295, 2009 (SCI-Expanded)
- XXXI. **Characterization of the antioxidant properties of seeds and skins in selected Turkish grapes**
ÖZTÜRK ÜREK R., AYAR KAYALI H., Tarhan L.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.5, pp.3750-3762, 2008 (SCI-Expanded)
- XXXII. **Problem-based learning in 9th grade chemistry class: 'intermolecular forces'**
Tarhan L., AYAR KAYALI H., ÖZTÜRK ÜREK R., Acar B.

- RESEARCH IN SCIENCE EDUCATION, vol.38, no.3, pp.285-300, 2008 (SSCI)
- XXXIII. **Comparison of antioxidant capacities of the leaves and flowers of *Salvia fruticosa* grown in turkey**
ÖZTÜRK ÜREK R., AYAR KAYALI H., Nakiboglu M., Tarhan L.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.3, pp.2091-2098, 2008 (SCI-Expanded)
- XXXIV. **In vitro antioxidant properties of *Cucurbita pepo* L. Male and female flowers extracts**
Tarhan L., Kayali H., Urek R.
PLANT FOODS FOR HUMAN NUTRITION, vol.62, no.2, pp.49-51, 2007 (SCI-Expanded)
- XXXV. **Antioxidant response of a novel *Streptomyces* sp M3004 isolated from legume rhizosphere to H2O2 and paraquat**
Isik K., Kayali H., Sahin N., Gundogdu E. O., Tarhan L.
PROCESS BIOCHEMISTRY, vol.42, no.2, pp.235-243, 2007 (SCI-Expanded)
- XXXVI. **The correlation between glycogen-glycolysis metabolite pyruvate and vancomycin antibiotic productions of *Amycolatopsis orientalis* grown in glucose medium**
Ayar-Kayali H., Tarhan L.
BIOCHEMICAL ENGINEERING JOURNAL, vol.33, no.2, pp.134-140, 2007 (SCI-Expanded)
- XXXVII. **Antioxidant capacities of endemic *Sideritis sipylea* and *Origanum sipyleum* from Turkey**
Nakiboglu M., Urek R., Kayali H., Tarhan L.
FOOD CHEMISTRY, vol.104, no.2, pp.630-635, 2007 (SCI-Expanded)
- XXXVIII. **Balance between aerobic and anaerobic metabolites production of *Amycolatopsis orientalis* depending on initial glucose concentration**
Ayar-Kayali H., Tarhan L.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.37, no.3, pp.247-263, 2007 (SCI-Expanded)
- XXXIX. **The relationship between the levels of total sialic acid, lipid peroxidation and superoxide dismutase, catalase, glutathione peroxidase, ascorbate antioxidant in urea supplemented medium by *Fusarium* species**
Kayali H., Tarhan L.
ENZYME AND MICROBIAL TECHNOLOGY, vol.39, no.4, pp.697-702, 2006 (SCI-Expanded)
- XL. **The impact of Vitamins C, B-1 and B-6 supplementation on antioxidant enzyme activities, membrane total sialic acid and lipid peroxidation levels in *Fusarium* species**
Kayali H., Tarhan L.
PROCESS BIOCHEMISTRY, vol.41, no.7, pp.1608-1613, 2006 (SCI-Expanded)
- XLI. **Vancomycin antibiotic production and TCA-glyoxalate pathways depending, on the glucose concentration in *Amycolatopsis orientalis***
Ayar-Kayali H., Tarhan L.
ENZYME AND MICROBIAL TECHNOLOGY, vol.38, no.6, pp.727-734, 2006 (SCI-Expanded)
- XLII. **Variations in metal uptake, antioxidant enzyme response and membrane lipid peroxidation level in *Fusarium equiseti* and *F-acuminatum***
Kayali H., Tarhan L.
PROCESS BIOCHEMISTRY, vol.40, no.5, pp.1783-1790, 2005 (SCI-Expanded)
- XLIII. **Variations of alcohol dehydrogenase activity and fermentative pyruvate, ethanol production of *F-equiseti* and *F-acuminatum* depend on the yeast extract and urea concentrations**
Kayali H., Tarhan L., Soran H.
ENZYME AND MICROBIAL TECHNOLOGY, vol.36, no.5-6, pp.706-711, 2005 (SCI-Expanded)
- XLIV. **Functions of antioxidant enzyme activities on the membrane bound total sialic acid and lipid peroxidation level in *F-equiseti* and *F-acuminatum***
Kayali H., Tarhan L.
ARTIFICIAL CELLS BLOOD SUBSTITUTES AND BIOTECHNOLOGY, vol.33, no.3, pp.319-328, 2005 (SCI-Expanded)
- XLV. **A comparative study of the metal ion uptake and antioxidant enzyme activities of *Fusarium equiseti* and *Fusarium acuminatum* as a function of external magnesium concentration**
Kayali H., Tarhan L.
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.35, no.3, pp.217-230, 2005 (SCI-Expanded)

- XLVI. **Role of pyruvate and ascorbate production in regulation of antioxidant enzymes and membrane LPO levels in *Fusarium acuminatum***
Kayali H., Tarhan L.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.120, no.1, pp.15-27, 2005 (SCI-Expanded)
- XLVII. **The effect of glucose and maltose concentrations on pyruvate and ascorbate production, antioxidant enzyme activities and LPO levels in *Fusarium equiseti***
Kayali H., Tarhan L.
PROCESS BIOCHEMISTRY, vol.39, no.11, pp.1519-1524, 2004 (SCI-Expanded)
- XLVIII. **The effect of cultural conditions on the variations of SOD, CAT and GSH-Px activities and LPO levels in the filamentous fungus *Fusarium equiseti***
Ayar-Kayali H., Tarhan L.
TURKISH JOURNAL OF CHEMISTRY, vol.28, no.2, pp.213-222, 2004 (SCI-Expanded)
- XLIX. **Influence of zinc and copper ions on metals transport, antioxidant system responses and membrane LPO levels of *F-equiseti* and *F-acuminatum***
Kayali H., Tarhan L.
ENZYME AND MICROBIAL TECHNOLOGY, vol.33, no.6, pp.828-835, 2003 (SCI-Expanded)
- L. **Intracellular superoxide dismutase, catalase, and glutathione peroxidase activities and membrane lipid peroxide levels in *Fusarium acuminatum* upon environmental changes in a defined medium**
Ayar-Kayali H., Ozer N., Tarhan L.
ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS, vol.400, no.2, pp.265-272, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Energy Metabolism in The Different Tissues of Colon Cancer Xenograft Models Based on The TCA and Cori Cycles and Glycolysis**
AYAR KAYALI H., BULUT ATALAY E.
Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, 2023 (Peer-Reviewed Journal)
- II. **Phenylpropanoid Pathway Response to Cadmium and Lead Stress in *Phaseolus vulgaris* Roots and Leaves**
TAVSAN Z., AYAR KAYALI H.
Asian Journal of Biotechnology and Bioresource Technology, vol.3, no.4, pp.1-11, 2018 (Peer-Reviewed Journal)
- III. **Koenzimler Konusunda Probleme Dayalı Öğrenme Uygulamasının Öğrenci Başarısı ve Biyokimya Dersine Karşı Tutumlarına Etkisi**
MUTLU A., AYAR KAYALI H.
İnönü Üniversitesi Eğitim Fakültesi Dergisi, vol.19, no.1, pp.49-65, 2018 (Peer-Reviewed Journal)
- IV. **Intra- and extra-cellular flux distributions of TCA and glyoxalate cycle and vancomycin production of *Amycolatopsis orientalis* grown in different glycerol concentration.**
AYAR KAYALI H., Tarhan L.
Prikladnaia biokhimiia i mikrobiologiia, vol.46, no.5, pp.519-526, 2010 (Scopus)

Books & Book Chapters

- I. **The Role of Kinase Inhibitors in Cancer Therapies**
Kurşunluoğlu G., Erdoğan D., Çağatay E., Bulut Atalay E., Güler S., Güngör Y., Ayar Kayali H.
in: Protein Kinase - New Opportunities, Challenges and Future Perspectives, Marijana Josipovic, Editor, Intech Open, London, pp.1-31, 2021
- II. **DEÜ-TÜSEB COVID-19 Tanı Laboratuvarı Yapılandırılması**
Ayar Kayali H., Özbek Ö. A., Öktem İ. M. A.
in: Dokuz Eylül Üniversitesi Uygulama ve Araştırma Hastanesi Covid19 Pandemisi Yönetimi , Prof. Dr. Nükhet

Refereed Congress / Symposium Publications in Proceedings

- I. **Kolon Kanseri Tedavisinde Protein Kinaz C İnhibisyonunun Hedeflenmesi**
Kozalı Y., Köprülüoğlu C., AYAR KAYALI H.
Ege 7th International Conference On Applied Sciences, Turkey, 24 December 2022
- II. **Laktoz İntoleransının Azaltılması için Rekombinant Olarak β -Galaktosidaz Enziminin Üretilmesi**
Çaşkı A., AYAR KAYALI H.
5th International Eurasian Conference on Biological and Chemical Sciences, Turkey, 23 November 2022
- III. **Laktoz İntoleransının Azaltılması için Rekombinant Olarak Beta-galaktosidaz Enziminin Üretilmesi**
Ayar Kayalı H., Çaşkı A.
5th International Eurasian Conference on Biological and Chemical Sciences, İzmir, Turkey, 23 - 25 November 2022, pp.1709
- IV. **Synthesis and Characterization of Therapeutic Antibody-Drug Conjugates against Ovarian Cancer**
Erdoğan D., Durak A. U., AYAR KAYALI H.
SFNANO 2021, France, 06 December 2021
- V. **Synthesis of Bioactive Organoruthenium Complexes**
SUBAŞI E., AYAR KAYALI H., ŞEN B., GÜLER S., SADAN E. O.
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), Ankara, Turkey, 24 - 26 November 2021, pp.344
- VI. **Generation of R132H point mutation by CRISPR/Cas9 method in colorectal cancer cell line**
BULUT ATALAY E., ŞENTÜRK Ş., AYAR KAYALI H.
3. Uluslararası Kanser ve İyon Kanalları Kongresi (CANCERION-2021), 16 September 2021
- VII. **EXOSOME-MEDIATED EFFECTS CARCINOGENIC MECHANISMS IN OVARIAN TUMOUR MICROENVIRONMENT CELLS**
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