

Aims and Scope

Aurum Journal of Health Sciences (AJHS – A. J. Health Sci.) is an international open access platform for basic, applied, theoretical and clinical studies in health sciences. AJHS publishes double blind peer-reviewed research articles, short reports, case reports, invited reviews and letters to the editor. AJHS is published triannually both in printed and electronic version. AJHS is a multidisciplinary journal on health sciences and accepts manuscripts on dental, medical, health services and pharmaceutical studies. The manuscripts linking different disciplines of health sciences will be given a priority in the journal.

E-mail and web-sites

e-mail: ajhs@altinbas.edu.tr

web: <https://aurum.altinbas.edu.tr/en/journal-of-health-sciences>

Contact

Adress1: Altınbaş University, Mahmutbey Dilmenler Cad. No. 26, 34217 Bağcılar – İSTANBUL
Tel: (0 212) 604 01 00 • Fax: (0 212) 445 81 71

Adress2: Altınbaş University, Zuhuratbaba, İncirli Cd. No:11-A, 34147 Bakırköy/İstanbul
Tel: (0212) 709 45 28

Publication Frequency

April- August - December

Language

English

Guide for Contributors

<https://dergipark.org.tr/en/pub/ajesa/writing-rules>

Typesetting

Sultan Özer

Print

Sena Ofset

Date of Publication

April 2022

AURUM**Journal of Health Sciences (A. J. Health Sci.)****Volume 4 No 1****ISSN: 2651-2815****Owner**

Altınbaş University President of the Board of Trustees
Ali Altınbaş

General Coordinator

Prof. Dr. Çağrı Erhan

Managing Editor

Duygu Sazan

Editorial Board

Prof. Dr. Osman Nuri Uçan, Altınbaş University, Editor in Chief
Assoc. Prof. Dr. Başak Bıykođlu
Assoc. Prof. Dr. Hakan Kaygusuz
Asst. Prof. Dr. Şebnem Garip Ustaogđlu
Asst. Prof. Dr. Yasemin Yücel Yücel

Technical Assistant

Res. Asst. Dr. Kaan Birgöl
Osman Mutluhan

Editorial Advisory Board Members of Dental Sciences**Oral and Maxillofacial Surgery**

Prof. Dr. Gökser Çakar / Periodontology

Dentomaxillofacial Radiology

Prof. Dr. Semih Özbayrak

Endodontics

Prof. Dr. Hakkı Sunay

Pedodontics

Assoc. Prof. Dr. Buğra Özen

Periodontology

Prof. Dr. Şebnem Dirikan İpçi

Prosthodontics

Prof. Dr. Samim Çetin Sevük

Restorative Dentistry

Prof. Dr. Şölen Günal

Girne University, Faculty of Dentistry, Department of Restorative Dentistry

Orthodontics

Prof. Dr. Korkmaz Sayınsu

Editorial Advisory Board Members of Health Services**Anesthesia**

Assoc. Prof. Dr. Yaşar Nakipoğlu

Istanbul University, Istanbul Faculty of Medicine, Department of Medical Microbiology

Audiometry

Prof. Dr. Ahmet Ataş

Istanbul University, Faculty of Health Science, Department of Audiology

First and Urgent Aid

Assoc. Prof. Dr. Beytullah Karadayı

Istanbul University, Cerrahpaşa Faculty of Medicine, Department of Forensic Medicine

Medical Laboratory Techniques

Prof. Dr. İlhan Onaran

Istanbul University, Cerrahpaşa Faculty of Medicine, Department of Medical Biology

Operating Room Services

Prof. Dr. Emel Bozkaya

Halic University, Faculty of Medicine, Department of Molecular Biology and Genetics /Medical Microbiology

Opticianry

Prof. Dr. Ekrem Aydın

Istanbul University, Department of Physics

Editorial Advisory Board Members of Medical Sciences**Surgical Medical Sciences**

Prof. Dr. Erhun Eyüboğlu

Memorial Hospital Department of General Surgery

Prof. Dr. Turgut İpek

Altınbaş University, Faculty of Medicine, Department of General Surgery

Prof. Dr. Koray Topgül

Anadolu Sağlık Merkezi (John Hopkins Hospital) Department of General Surgery

Prof. Dr. Osman Şevki Arslan

Istanbul University, Cerrahpaşa Faculty of Medicine, Department of Ophthalmology

Prof. Dr. Bingür Sönmez
Memorial Şişli Hospital Department of Cardiovascular Surgery
Prof. Dr. İbrahim Ethem Geçim
Ankara University, Faculty of Medicine, Department of General Surgery
Prof. Dr. Selman Sökmen
Dokuz Eylül University Faculty of Medicine, Department of General Surgery
Prof. Dr. Ramazan Alper Kaya
Medical Park Hospital Department of Neurochirurgie Prof. Dr. Işık Akgün
Group Florence Nightingale Hospitals, Department of Orthopedics and Traumatology
Prof. Dr. Mustafa Kürklü
Memorial Bahçelievler Hospital Department of Orthopedics and Traumatology
Prof. Dr. Burak Koçak
Koç University Hospital Department of Urology and Kidney Transplant Surgery
Assoc. Prof. Dr. Barış Sönmez
Bahçeşehir University, Medical Faculty Department of Ophthalmology

Internal Medical Sciences

Prof. Dr. Deniz Suna Erdinçler
Istanbul University, Cerrahpasa Faculty of Medicine, Department of Geriatrics
Prof. Dr. Meltem Pekpak
Istanbul University, Cerrahpasa Faculty of Medicine, Department of Nephrology
Prof. Dr. Hakan Gürvit
Istanbul University, İstanbul Faculty of Medicine, Department of Neurology
Prof. Dr. Saide Aytekin
Koc University Faculty of Medicine, Department of Cardiology/
Prof. Dr. Vedat Aytekin
Koc University Faculty of Medicine, Department of Cardiology
Assoc. Prof. Dr. Ejder Akgün Yıldırım Bakırköy Psychiatric Hospital

Basic Medical Sciences

Prof. Dr. Oktay Arda
Altınbaş University, Faculty of Medicine, Department of Histology and Embryology
Prof. Dr. Zahra Zakeri
Queens College of City University, New York, USA Prof. Dr. Mara Pilmane
Riga Stradins University Institute of Anatomy and Anthropology, Latvia
Prof. Dr. Feride Severcan
Altınbaş University, Faculty of Medicine, Department of Biophysics
Prof. Dr. Serap Arbak
Acıbadem University Faculty of Medicine, Department of Histology and Embryology
Prof. Dr. Gülderen Şahin
Istanbul University, Cerrahpaşa Faculty of Medicine, Department of Physiology
Prof. Dr. Melek Öztürk Sezgin
Istanbul University, Cerrahpasa Faculty of Medicine, Department of Medical Biology
Prof. Dr. Tania Marur
Istanbul University, Cerrahpasa Faculty of Medicine, Department of Anatomy
Prof. Dr. Hırsi Bahar Tokman
Istanbul University, Cerrahpaşa Faculty of Medicine, Department of Microbiology
Assoc. Prof. Dr. Yekbun Adıgüzel
Altınbaş University, Faculty of Medicine, Department of Biophysics
Assist. Prof. Dr. İlknur Dursun
Altınbaş University, Faculty of Medicine, Department of Physiology
Assist. Prof. Dr. Ayça Mollaoğlu

Altınbaş University, Faculty of Medicine, Department of Physiology
Assist. Prof. Dr. Kristel Paola Ramirez Valdez Altınbaş University, Faculty of Medicine,
Department of Medical Microbiology
Assist. Prof. Dr. Gülkızılca Yürür
Altınbaş University, Faculty of Medicine, Department of Medical Ethics
Dr. Mohammad Y.M. Al-Talahma
Altınbaş University, Faculty of Medicine, Department of Anatomy
Neuroscience
Prof. Dr. Ertan Yurdakoş
Altınbaş University, Faculty of Medicine, Department of Physiology
Prof. Dr. Tamer Demiralp
Istanbul University, Istanbul Faculty of Medicine, Department of Physiology
Prof. Dr. Filiz Onat
Marmara University, Faculty of Medicine, Department of Medical Pharmacology
Prof. Dr. Metehan Çiçek
Ankara University Faculty of Medicine, Department of Physiology

Immunology

Prof. Dr. Günnur Deniz
Istanbul University, Aziz Sançar Institute of Experimental Medicine, Department of Immunology
Prof. Dr. Fatma Oğuz
Istanbul University, Istanbul Faculty of Medicine, Department of Medical Biology

Genetics

Prof. Dr. Uğur Özbek
Acibadem University Faculty of Medicine, Department of Medical Genetics
Prof. Dr. Ersan Kalay
Karadeniz Technical University Faculty of Medicine, Department of Medical Biology and Genetics

Editorial Advisory Board Members of Pharmaceutical Sciences

Analytical Chemistry

Prof. Dr. Irena Choma
Maria Curie-Skłodowska University in Lublin, Department of Chromatographic Methods
Assist. Prof. Dr. Fatma Tuba Gözet
Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry

Clinical Pharmacy

Assist. Prof. Dr. Nilay Aksoy
Altınbaş University, Faculty of Pharmacy, Department of Clinical Pharmacy

Pharmaceutical Chemistry

Prof. Dr. Eyüp Akgün
Natural Product Synthesis Research faculty, Department of Medicinal Chemistry, University of Minnesota
Prof. Dr. Mehmet Tanol
Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry
Prof. Dr. Akgül Yeşilada
İstinye University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry

Pharmaceutical Technology

Prof. Dr. Oya Alpar

Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Technology

Prof. Dr. Buket Aksu

Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Technology

Assist. Prof. Dr. Genada Sinani

Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Technology

Assist. Prof. Dr. Zeynep Ülker Demir

Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Technology

Pharmacognosy

Assoc. Prof. Dr. Kaan Polatođlu

Altınbaş University, Faculty of Pharmacy, Department of Pharmacognosy

Pharmacology

Prof. Dr. Feyza Arıciođlu

Marmara University, Faculty of Pharmacy, Department of Pharmacology

Assist. Prof. Dr. Gaye Hafez

Altınbaş University, Faculty of Pharmacy, Department of Pharmacology

Pharmaceutical Microbiology

Prof. Dr. Özgül Kısa

Ufuk University, Faculty of Medicine, Department of Microbiology

Assist. Prof. Dr. Cansu Vatansever

Altınbaş University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology

Pharmaceutical Botany

Asst. Prof. Dr. Hüseyin Servi

Yeni Yüzyıl University, Faculty of Pharmacy, Department of Pharmacognosy

Contents

9 Editorial

RESEARCH ARTICLE

- 11-23 **Building an Electronic Health Portal with an E-Health Application to Communicate with Patients**
Ali Al Fazea, Abdullahi Abdu Ibrahim
- 25-33 **Detection of COVID-19 Pneumonia Effects in Chest X-Rays Using Deep Learning**
Mohammed Khamees Ahmed
- 35-43 **Detection of COVID-19 in Low Energy Chest X-Rays Using Fast R-CNN**
Maryam Kareem Sakran Mamoori, Abdullahi Abdu Ibrahim
- 45-55 **A New Method Based CNN Combined with Genetic Algorithm and Support Vector Machine for COVID-19 Detection by Analyzing X-Ray Images**
Karam Mohammed Dawood

