

المجلة الأردنية للعلوم الحياتية
Jordan Journal of Biological Sciences (JJBS)

<http://jjbs.hu.edu.jo>

Jordan Journal of Biological Sciences (JJBS) (ISSN: 1995–6673 (Print); 2307-7166 (Online)): An International Peer- Reviewed Research Journal financed by the Scientific Research Support Fund, Ministry of Higher Education and Scientific Research, Jordan and published quarterly by the Deanship of Research and Graduate Studies, The Hashemite University, Jordan.

Editor-in-Chief

Professor Abu-Elteen, Khaled H.
Medical Mycology
The Hashemite University

Editorial Board (Arranged alphabetically):

Professor Abdalla, Shtaywy S.
Human Physiology
The University of Jordan; Currently: Tafila
Technical University
Professor Abdel-Hafez, Sami K.
Immunoparasitology
Yarmouk University
Professor Al-Hadidi, Hakam F.
Toxicology and Clinical Pharmacology
Jordan University of Science and Technology
Professor Bashir, Nabil A.
Biochemistry and Molecular Genetics
Jordan University of Science and Technology

Professor Elkarmi, Ali Z.
Bioengineering
The Hashemite University
Professor Oran, Sawsan A.
Plant Taxonomy
The University of Jordan
Professor Sallal, Abdul-Karim J.
Applied Microbiology
Jordan University of Science and Technology
Professor Tarawneh, Khaled A.
Molecular Microbiology
Mutah University

International Advisory Board:

Prof. Abdul-Haque, Allah Hafiz
National Institute for Biotechnology and
Genetic Engineering, Pakistan
Prof. El Makawy, Aida, I
National Research Center, Giza, Egypt
Prof. Ghannoum, Mahmoud A
University Hospital of Cleveland and Case
Western Reserve University, U.S.A.
Prof. Hassanali, Ahmed
Kenyatta University, Nairobi, Kenya
Prof. Matar, Ghassan M
American University of Beirut, Lebanon
Prof. Nasher, Abdul Karim
Sanna' University, Yemen
Prof. Waitzbauer, Wolfgang
University of Vienna, Austria

Prof. Bamburg, James
Colorado State University, U.S.A.,
Prof. Garrick, Michael D
State University of New York at Buffalo, U.S.A.
Prof. Gurib-Fakim, Ameenah F
Center for Phytotherapy and Research,
Ebene, Mauritius.
Prof. Kaviraj, Anilava
India University of Kalyani, India
Prof. Martens, Jochen
Institute Fur Zoologie,
Germany
Prof. Stanway, Glyn
University of Essex, England
Prof. Wan Yusoff, Wan Mohtar
University Kebangsaan Malaysia, Malaysia

Submission Address

Professor Abu-Elteen, Khaled H.
Deanship of Scientific Research and Graduate Studies
The Hashemite University
P.O. Box 330127, Zarqa, 13115, Jordan
Phone: +962-5-3903333 ext. 4399
E-Mail: jjbs@hu.edu.jo

Editorial Board Support Team

Language Editor **Publishing Layout**
Dr. Qusai Al-Debyan **Mohannad Oqdeh**