

## EDITORIAL PREFACE

Jordan Journal of Biological Sciences (JJBS) aims to publish high quality manuscripts and provide readers worldwide with high quality peer-reviewed scholarly articles on a wide variety of biological sciences such as Cell biology, developmental biology, structural biology, microbiology, entomology, toxicology, molecular biology & genetics, biochemistry, biotechnology, biodiversity, ecology, marine biology, plant biology, animal biology, physiology, and bioinformatics. JJBS is a refereed, peer reviewed quarterly international journal financed by the Scientific Research Support Fund, Ministry of Higher Education and Scientific Research in cooperation with the Hashemite University, Jordan. JJBS has been indexed by SCOPUS; CABI's Full-Text Repository, EBSCO, Science Citation Index- Zoological Abstract and recently has been included in the UGC India approved journals. JJBS is currently under evaluation to be indexed in Thomson Reuters, National Library of Medicine's MEDLINE\ Pub Med system and others.

A group of highly valuable scholars have agreed to serve on the editorial board and this places JJBS in a position of most authoritative on biological sciences. I am honored to have five associate editors: Al-Hindi (Islamic University of Gaza, Palestine.), Al-Homida, (King Saud University, Saudi Arabia), Kachani, (Western University of Health Sciences, USA), Fass, (Oman Medical College, Sultanate of Oman), and Gammoh (The University of Edinburgh). I am also delighted with our group of international advisory board members consisting from 15 countries worldwide. With our editorial board's cumulative experience in various fields of biological sciences, this journal brings a substantial representation of biological sciences in different disciplines. Without the service and dedication of our editorial board, JJBS would have never existed.

In the coming year, it is my vision to have JJBS publish a combination of manuscripts documenting rigorous studies in the area of biological sciences, and one or more manuscripts from distinguished scholar on recent advances in molecular biology. As you read throughout this volume of JJBS, I would like to remind you that the success of our journal depends directly on the number of quality articles submitted for review. Accordingly, I would like to request your participation and colleagues by submitting quality manuscripts for review. One of the great benefits we can provide to our prospective authors, regardless of acceptance of their manuscripts or not, is the feedback of our review process. JJBS provides authors with high quality, helpful reviews to improve their manuscripts.

Moreover, and as always, my thanks are also extended to the Hashemite University and Jordanian Scientific Research Support Fund for their continuous financial and administrative support to JJBS. I would like to highlight and proudly thank the group of authoritative reviewers, both local and international, who have done an outstanding work. We are honored to have you on our review list and many thanks for your valuable mentorship and contributions you provided to authors. Indeed, we count on your excellent reviews to include only high quality articles worthy of publication in JJBS. Together, we strive to make JJBS reach a remarkable rank among other international journals. I very much appreciate your support to make JJBS one of the most authoritative journals in biological sciences.

March 2018

Prof. Khaled H. Abu-Elteen  
Editor-in-Chief  
The Hashemite University  
Zarqa, Jordan