

Volume 4 (3) July-September, 2017 Journal Impact Factor: 4.197

World Journal of Biology and Medical Sciences



EISSN: 2349-0063



Scope

Life Sciences (Botany and Zoology)
Medical Sciences
Bio-Chemistry
Agricultural Sciences
Environmental Sciences
Biotechnology
Molecular Biology
Horticulture

Indexed, Abstracted and Cited

Index Copernicus International
(Poland), ISRA Journal Impact Factor,
International Impact Factor Services
(IIFS), Cosmos Science Foundation,
Directory of Research Journals
Indexing (DRJI), Directory of
Open Access Scholarly Resources
International Institute of Organized
Research and Google Scholar
Scientific Indexing Services citefactor.org
journals indexing Directory Indexing of
International Research Journals

Prof. Abbas Ali Mahdi

Editor General

Prof. Y.K. Sharma

Executive Chief Editor

Dr. M.M. Abid Ali Khan

Managing Chief Editor

Landline- 0522 -4044899, Mob. - 09793514999

Email id: wjbmedsc@gmail.com

wjbms.lko@gmail.com

Dy. Chief Editors

Dr. T.S. Naqvi (India)

Dr. John K. Grandy (U.S.A.)

**Dr. Dilfuza Egamberdieva
(Uzbekistan)**

Dr. Uma Singh (India)

Prof. Li Lin (China)

Website : www.sasjournals.com

Published by Society for Advancement of Sciences®, Lucknow, U.P (INDIA)

COUNCIL OF CHIEF EDITORS

Prof. Abbas Ali Mahdi

Editor General
Department of Bio Chemistry
K.G. Medical University, Lucknow, INDIA

Dr. M.M. Abid Ali Khan

Managing Chief Editor
Department of Botany
Shia P.G. College, Lucknow, INDIA

Dr. Dilfuza Egamberdieva

Dy. Chief Editor
Department of Biotechnology
and Microbiology
National University of Uzbekistan
100174, Tashkent, Vuzgorodok
REPUBLIC OF UZBEKISTAN

Dr. Uma Singh

Department of Obstetrics and Gynaecology
King George's Medical University,
Lucknow, U.P., INDIA,

Prof. Y.K. Sharma

Executive Chief Editor
Department of Botany,
Lucknow University, Lucknow, INDIA

Dr. T.S. Naqvi

Dy. Chief Editor (Zoology)
Department of Zoology
Shia P.G. College, Lucknow, INDIA

Dr. John K. Grandy

Dy. Chief Editor
North Country Urgent Care,
21017 NYS Route 12f,
Watertown NY, 13601,
U.S.A.

REGIONAL EDITORS (FOREIGN)

Prof. Irada Huseynova

Bioadaptation Laboratory
Institute of Botany, ANAS
40 Badamdar Highway
Baku AZ1073, AZERBAIJAN

Prof. Li Lin

Dept. of Aquatic Animals Medicine,
College of Fisheries, Huazhong ,
Agricultural University, P. R.,
CHINA

Prof. Ayman EL-Meghawry EL-Kenawy

Molecular Biology Dept. Genetic Engineering
and Biotechnology, Inst. Sadat City University,
Sadat City, P.O. Box 79 EGYPT

Dr. G.M.G Shehab

Head of Medical Biochemistry Department
College of Medicine,
Taif University, SAUDI ARAB

Dr. Hamid Kheyrodin

Faculty of Desert Science,
Semnan University, IRAN

Dr. M.Tariq Khan

CEO, ILST Education,
Philadelphia, USA.

Prof. Hazim Jabbar Al-Daraji

Avian Reproduction and Physiology,
University of Baghdad, College of Agriculture,
Department of Animal Resources,
Baghdad, IRAQ

Dr. Jiban Shrestha

Scientist (Plant Breeding & Genetics)
Nepal Agricultural Research Council,
National Maize Research Program
Rampur, Chitwan, NEPAL

Dr. C.P. Ukpaka

Department of Chemical/Petrochemical
Engineering Rivers State University of
Science and Technology Nkpolu,
P.M.B. 5080, Port Harcourt, NIGERIA

Dr. Ho Soon Min

Faculty of Applied Sciences,
INTI International University,
Persiaran Perdana BBN,
Putra Nilai, 71800 Nilai,
Negeri Sembilan, Malaysia

Dr Palanivel Sathishkumar

Institute of Environmental and
Water Resource Management (IPASA)
Universiti Teknologi Malaysia,
Johor Bahru, MALAYSIA

Dr. A. El-Aleem S. S. Desoky

Plant Protection Department,
Faculty of Agriculture,
Sohag University, Sohag,
EGYPT

Dr. Kasim Sakran Abass

Department of Basic Nursing Sciences,
College of Nursing,
University of Kirkuk,
Kirkuk, IRAQ

Dr. Abdeen Mustafa Omer

Energy Research Institute,
Nottingham, United Kingdom

REGIONAL EDITORS (INDIA)

Prof. Zafar Abbas

G.F. College, Shahjahanpur,
U.P., INDIA

Dr. S.A. Salgare

Salgare Research Foundation,
Raigad, Maharashtra, INDIA

Dr. Raaz K. Maheshwari

Department of Chemistry, MDSU Govt. P.G.,
College, Poornima University, Sitapura,
Jaipur, Rajasthan, INDIA,

Dr. Subha Ganguly

AICRP on Post Harvest Technology (ICAR),
Kolkata, West Bengal, INDIA

Dr. Sabiha Khan

Department of Zoology,
Government College,
Ajmer, Rajasthan, INDIA

Dr. Aziz B. Abidi

Department of Botany,
Shia P.G. College,
Lucknow, U.P. INDIA

Dr. Lallan Ram

Department of Agriculture and Cooperation,
Ministry of Agriculture Govt. of India,
Nagaland, INDIA

Prof. Mansoor Ahmad Siddiqui

Department of Botany,
Aligarh Muslim University (AMU),
U.P., INDIA

Professor Dhrubo Jyoti Sen

Dept. of Pharmaceutical Chemistry,
Shri Sarvajanic Pharmacy College,
Gujarat Technological University,
Arvind Baug, Mehsana-384001,
Gujarat, INDIA

Dr. Arti Goel

Amity Institute of Microbial Biotechnology,
Amity University, Sector- 125, Noida,
(U.P.), 201301, India

Dr. J. Godwin Christopher,

School of Bio Sciences and Technology,
VIT University, VELLORE – 632 014
Tamil Nadu, INDIA

Prof. M.M. Khan

Career Institute of Medical Sciences,
Lucknow, U.P. INDIA

Dr. A.M. Saxena

Department of Zoology,
Lucknow University,
Lucknow, U.P. India

Dr. Anjana S. Bellad

Department of Physiology
Belgaum Institute of Medical Science,
Belgaum, Karnataka, INDIA

Dr. Anju Bajpai

Crop Improvement and Biotechnology
Division, Central Institute of Subtropical
Horticulture (CISH), Lucknow- 227107,
U.P. INDIA

Dr. Balnath Tukram Pawar

Department of Botany,
Shri Muktanand College, Gangapur
Dist. Aurangabad (M.S.) INDIA.

Dr. S. Srikanth

Dept of Physiology,
Dr. Pinnamaneni Siddhartha Institute of
Medical Sciences & Research,
Foundation, Chinnavutapalli-521286,
A.P, INDIA

Prof. Dr. (Ms) Manu Rathee

Senior Professor and Head of
Department, Prosthodontics
Post Graduate Institute of Dental
Sciences (PGIDS), Rohtak,
Haryana, India.

EDITORIAL ASSISTANT/EDITORIAL OFFICE INCHARGE

Talib Ali Khan, (Editorial Assistant)

Editorial Office: 235/9 Shahchara Lane, Victoria Street, Lucknow 226 003, U.P. India.

World Journal of Biology and Medical Sciences

Published by Society for Advancement of Sciences®

ISSN 2349-0063 (Online/Electronic)

Volume 4 (3), July-September, 2017

Journal Impact Factor: 4.197

Medical Council of India Validated Journal

List of Contents

- S. No. 1- Review on Transgenic Animal Technology
Classifications, Applications and Implications
By Birhanu Tamirat, Yohannes Hagos and Atilaw Wube 1-12
- S. No. 2- Role and Important of Hydrogen in Plant Metabolism
By Hamid Kheyrodin and Sadaf Kheyrodin 13-20
- S. No. 3- Nutritional Limitation and Opportunities of
Biotechnology in Solving Livestock Feed Shortage: Review
By Tesfaye Amene Dadi 21-33
- S. No. 4- Investigation on Cytotoxic Effect of *Brucella abortus* on
Cattle and the Role of Cytokines in Regulation of Intracellular
Bacterial Infection
By Abdel Fatah Ali, Mervat E.I Radwan, Ahlam F. Hamoda and
Mohamed Gouda Abdelwahab 34-42
- S. No. 5- The Concept and Attitude of Goiter Patients
Regarding the Goiter, at Al Mesiktab Community, Sudan, August- 2016
By Suleman Al Kamil Ahmed, Samah Mohammed Hassan and
Aisha Taj Elsir Mohamed Ali 43-51
- S. No. 6- Use of GIS in Urban Planning: A Case Study of Mashad the
Holy City of Iran
By Sadaf Kheyrodin 52-60
- S. No. 7- Important of Planning Theory and Strategic Urban
By Sadaf Kheyrodin 61-69
- S. No. 8- Multidisciplinary Approach of Cellular Therapy with
Neurorehabilitation in a Case of Mixed Cerebral Palsy
By Alok Sharma, Nandini Gokulchandran, Prerna Badhe, Vaibhav Lakhanpal,
Pooja Kulkarni, Suhasini Pai, Khushboo Bhagwanani, AmrutaParanjape and
Hemangi Sane 70-74