

ISSN: 2249 - 7846 (Online)

ISSN: 2249 - 2321 (Print)

DOI: 10.1449

Science Research Reporter

*An International Journal
of Science & Technology*

Volume 6, No. 1, April - 201

(PP. 01 - 88)

<http://jsrr.net> (Online)

Chief Editor

Dr. Umesh P. Mogle

Owned, Edited, Printed and
Published by: Dr. Umesh P.
Mogle, Published from
'Kaushalyaie' P. No. 43,
Priyanka Residency, Mantha
Chaufulli, Jalna 431203 (M. S.)
India, and Printed at RUT
printer and publisher,
Priyanka Residency, Besides
Bejo Sheetal Seeds, Mantha
Chaufulli, Jalna 431203 (M. S.)
India. Mobile No. 9422377717

Science Research Reporter

About the Journal

Referred Journal/Citation /Indexed in: OAJI, ISI, DRJI, Cross Ref., AYUSH Research Portal, CABI abstract, Global health (USA), EBSCO Ipswich USA, Forest Science Database, Genamics Journal Seek, Docstoc, Index Copernicus, Indian Science Abstract, Scribd, Google Scholar, Netto Pdf, DSOAJ, EISRJC Philippines, Indian Science Publication, Biology Online, Research Gate, Global Impact Factor, Chalmers Library, Cornell University Library, Trove, World Cat etc

Aims and Scope

The Main aim of this Journal is to provide platform to the students, researcher, young and senior scientists, those who are actively engaged in the science and technology. It is dedicated to the advancement of scientific knowledge and recent technologies for the management and improvement of all interdisciplinary fields of Science.

The Journal publishes half yearly, i.e. in the month of **April** and **October**. However, the editor reserves the right to publish the Journal as a whole or in parts depending upon the material and the finances available.

Areas Covered

JSRR promotes original research papers, reviews, short notes and any technical article on the following themes:

Life Sciences, Chemistry, Physics, Biotechnology, Biochemistry, Soil Science, Water conservation, Biophysics, Environmental Science, Bioinformatics, Agriculture, Horticulture, Forestry, Food Science, Medical Sciences, Fishery Sciences, Veterinary Sciences, Related interdisciplinary areas will be considered for publication in **Science Research Reporter**. Submission of a research paper in SRR implies that has not previously been published and not been submitted for publication elsewhere. The published research papers will become the copyright of the publisher

Disclaimer:

Copyright © 2011, **Science Research Reporter**, No part of this Journal can be reproduced or transmitted in any form without written permission of the publisher, editor or owner.

* The editor, owner, printer and publisher does not accept any responsibility regarding unsolicited publication material, authenticity of data, statement, inaccurate data, opinions, results and view expressed by the authors in articles are of their own and not of **Science Research Reporter**.

* They do not watch any claim for made by the advertisement of products and services. They do not accept any delay delivery or publication of the periodicals due to unforeseen circumstances.

* The editor reserves the right to suitably modify, accept or reject of research papers for publication, proof may not be necessary to send the authors and **reprints would not be supplied**.

The Journal will be posted by ordinary post only, however it can be sent by speed or registered post, if subscribers pay extra charges in advance.

* **All disputes are subjected to the jurisdiction of district Jalna (M. S.) India only.**

SCIENCE RESEARCH REPORTER

Editorial Board

Chief Editor Dr. Umesh P. Mogle , (upmogle@gmail.com) Head Department of Botany, J. E.S. College, Jalna 431203 (M. S.) India Contact Number: 9422377717 Website: http://www.jbsd.in ; http://jsrr.net	Managing Editor Dr. Pratap V. Naikwade (Botany) Nya. T. A. Arts, Ved. S. R. S. Commerce and Vid. D. Pitre Science College, Devrukh, (MS), India.
Associate Editors	
Dr. Narayan Pandhure (Botany) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M. S.) India	Dr. Leena Kuruvilla Yale High Throughput Cell Biology Bldg B27, 300 Heffernan Dr West Haven, CT
Dr. Vikas S. Gambhire (Botany) Govt. College of Science, Aurangabad (M. S.) India	Dr. Vinod Devidas Devarkar (Botany) Shri Chhatrapati Shivaji College, Omerga
Dr. Padma B. Dandge (Biochemistry) Shivaji University, Kolhapur	Dr. K. A. Anbhule (Botany) B. R. Barwale College, Jalna (M. S.) India
Dr. Satish Ambadas Bhalerao (Botany) Wilson College, Chowpathy, Mumbai (M. S.) India	Dr. S. D. Niture (Zoology) Shri Shivaji College, Udgir
Editorial /Advisory Board	
Prof. D. K. Kulkarni (Zoology) Programme Organizer, BAIF Development and Research Foundation, Warje, Pune – 411 058 (MS) India	Prof. S. N. Shinde (Botany) R. S. College, Latur (M. S.) India
Dr. Smita R. Sonwane (Zoology) Associate Professor, Dr. B. A. M. University, Aurangabad. 431001 (MS)	Dr. R. M. Ganeshwade (Zoology) P. D. V. P. College Tasgaon, Dist Sangali. 416312 (MS) India
Dr. D. R. Deshmukh (Zoology) Pratishthan Mahavidyalaya, Paithan 431107 (MS) India	Dr. K.M. Kulkarni , (Zoology) Ex-Director of Higher Education, Pune Govt. Vidarbha Institute of Science & Humanities, Amravati (MS) India
Dr. U. N. Bhale (Botany) Arts, Science and Commerce College Naldurg. Tq.Tuljapur Dist. Osmanabad (MS)	Dr. D. V. Mane , (Chemistry) Shri Chhatrapati Shivaji College, Omerga (MS) India
Dr. V.T. Tantarpare (Zoology) Vidyabharti Mahavidyalaya, Camp, Amravati (MS)	Dr. S. K. Popalghats (Physics) J. E. S. College, Jalna (M. S.) India
Dr. Mangesh Yuwaraj Dudhe Scientist, Crop Improvement Section, Directorate of Oilseeds Research, Rajendranagar, Hyderabad- 500 030 India	Dr Sanjay S. Sathe (Botany) Padmabhushan Dr. Vasantrodada Patil, Mahavidyalaya, Tasgaon. 416312.
Dr. Khaled Nabih Zaki Rashed National Research Centre (NRC), Pharmaceutical and Drug Industries Research Division, Dokki, Giza, Egypt	Dr. D. D. Pardhe , (Botany) Sant Dnyanshwar College, Soegaon Aurangabad (MS)
Dr. P. Lalitha (Chemistry) Avinashilingam University, Coimbatore-43, TamilNadu	Dr. Prerna Kaur , (Applied Biotechnology) Hunter College and the Graduate Center of City University of New York
Dr. Mohamed El-Esawi , (Botany), Faculty of Science, Tanta University, 31527 Tanta, Egypt	Dr. Rohini Karunakaran , (Biochemistry) Faculty of Medicine AIMST University, Bedong Kedah Darul Aman , Malaysia
Dr. K. Madhava Chetty , (Botany) S.V. University, Tirupati-517 502,	