

**JOURNAL
OF
RESEARCH AND DEVELOPMENT**

VOL.15

JANUARY 2015

ISSN 0972-5407



**Centre of Research for Development
University of Kashmir
Srinagar-190006, J&K, India**

Cite this Volume as: J. Res. Dev. 15

Journal of Research and Development is published annually

©

Director

Centre of Research for Development

University of Kashmir, Srinagar-190006

J&K, India

Whilst effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinion or statement appears in this journal, they wish to make it clear that the data and opinions appearing in the articles are the sole responsibility of the contributors concerned. Accordingly, the publishers and the editorial board accept no responsibility or liability whatsoever for the consequence of any such inaccurate or misleading data, opinion or statement.

JOURNAL OF RESEARCH AND DEVELOPMENT

VOL.15

JANUARY 2015

ISSN 0972-5407

ADVISORY BOARD

Prof. Akbar Masood	Head, P. G. Department of Biochemistry
Prof. Bashir Ahmad Ganai	Director, Centre of Research for Development
Prof. G. M. Rather	Head, P. G. Department of Chemistry
Prof. Mohd Tariq Bandy	Head, P. G. Department of Electronics
Prof. Inayatullah Tahir	Coordinator, P. G. Course in Bioresources
Prof. Inayatullah Tahir	Head, P. G. Department of Botany
Prof. Raies A. Qadri	Head, P. G. Department of Biotechnology
Prof. Zulfiqar Ali Bhat	Head, P. G. Department of Pharmaceutical Science
Prof. S. A. Ramshoo	Head, P. G. Department of Geology & Geophysics
Prof. Mohd Arif Wani	Head, P. G. Department of Computer Science
Prof. Farooq Ahmed Masoodi	Head, P.G. Department of Food Science & Technology
Dr. Ishtiaq Ahmad Mayer	Head, P. G. Department of Geo. & Reg. Development
Prof. S. Muzaffar Ali Andrabi	Director, USIC
Prof. Shariefuddin Pirzada	Head, P. G. Department of Mathematics
Prof. Fayaz Ahmad	Head, P. G. Department of Zoology
Dr. Manzoor Ahmad Malik	Head, P. G. Department of Physics
Prof. Anwar Hassan	Head, P. G. Department of Statistics
Dr. Shajrul Amin	Coordinator, P. G. Department of Clinical Biochemistry

EDITORIAL BOARD

Editor-in-Chief: Prof. Bashir Ahmad Ganai

Executive Editors: 1. Prof. Azra N. Kamili
2. Dr. Md. Niamat Ali

Assistant Editors: 1. Dr. Ruqeya Nazir
2. Dr. Bilal Ahmad Wani