

Indian Journal of Traditional Knowledge

Chief Editor

Dr H R Nagendra
Chancellor
S-VYASA Yoga University
Bengaluru, India
E-mail: chancellor@svyasa.edu.in;
hrnagendra1943@gmail.com

Executive Editor

Prof Pulok Mukherjee
Director
Institute of Bioresources and Sustainable Development
Imphal, India
E-mail: director.ibsd@nic.in

Subject Editors

Dr Sanjay K Uniyal
Chief Scientist
CSIR-IHBT
Palampur, India
E-mail: suniyal@ihbt.res.in

Dr Abdul Kareem
Associate Professor and Head,
Centre for Conservation of
Natural Resources
The University of Trans-Disciplinary
Health Sciences and Technology,
Bengaluru, India
E-mail: abdul.kareem@tdu.edu.in

Dr Simone F Teixeira
Universidade de Pernambuco
Pernambuco, Brazil
E-mail: teixeirasf.upe@gmail.com

Ar Sanjay Bhandari
Assistant Professor
School of Planning and Architecture
Vijayawada
E-mail: sanjaybhandari@spav.ac.in

Dr Sharad Srivastava
Chief Scientist
Pharmacognosy, Phytochemistry & Product

Development Division
CSIR-National Botanical Research Institute
Lucknow, India
E-mail: sharad@nbri.res.in

Dr P Rammanohar
Research Director
Amrita School of Ayurveda
Amrita University, Kollam, India
E-mail: rammanoharp@gmail.com

Dr Vivek Kumar
Professor
Centre for Rural Development
IIT Delhi, New Delhi, India
E-mail: vivekk@iitd.ac.in

Dr Mamoni Das
Principal Scientist
College of Community Science
Assam Agricultural University, Jorhat
E-mail: mamoni.das@aau.ac.in

Dr Ramesh K Saini
Associate Professor
Department of Allied Health Science
School of Health Sciences and Technology
UPES, Dehradun 248 007,

Uttarakhand, India
E-mail: saini1997@konkuk.ac.kr

Dr Rabindra Nath Padaria
Joint Director (Extension)
ICAR- Indian Agricultural Research
Institute, New Delhi 110 012 (India)
E-mail: rabi64@gmail.com

Dr C K Katiyar
CEO Health Care (Technical)
Emami Ltd., 687, Anandpur, EM Bypass
Kolkata 700 107, India
E-mail: ck.katiyar@emamigroup.com

Dr Mrinal Kanti Bhattacharyya
Professor and Former Head
Department of Biochemistry
University of Hyderabad
Gachibowli, Hyderabad, India
E-mail: mkbsl@uohyd.ac.in

Dr Jyoti Prakash Tamang
Professor
Department of Microbiology
Sikkim University, Gangtok,
Sikkim, India
E-mail: jyoti_tamang@hotmail.com

Editorial Board

Prof Rabinarayan Acharya
Director General
Central Council for Research in Ayurvedic
Sciences (CCRAS), New Delhi, India
E-mail: drnacharya@gmail.com,
rabi_dravyaguna@yahoo.co.in

Dr K Haridasan
Former Joint Director
Foundation for revitalization of Local
Health Traditions, (FRLHT)

Consultant, Green Ahalia, Ahalia
International Foundation, Palakkad, Kerala
E-mail: haridasank9@gmail.com

Prof Rainer W Bussmann
Principal Scientist
Department of Ethnobotany,
Institute of Botany Iliia State University,
1 Botanical Street 0105, Tbilisi, Republic
of Georgia
E-mail: rainer.bussmann@iliauni.edu.ge

Prof B Ravishankar
Division of Pharmacology
Institute of Teaching and Research in
Ayurveda, Jamnagar, India
E-mail: gravishankar2000@yahoo.com

Prof Jamuna Prakash
(Retd.), Dept. of Food Science and
Nutrition University of Mysore
Manasagangotri, Mysore, India
E-mail: jampr55@hotmail.com

Prof Asim Ali Khan
Former Director-General
CCRUM, 61-65 Industrial Area
Janakpuri, New Delhi-110 058, India
E-mail: aakhan.jhu@gmail.com

Dr N Zaheer Ahmed
Director-General
CCRUM, 61-65 Industrial Area
Janakpuri, New Delhi-110 058
E-mail: unanimedicine@gmail.com;
drnzaheer@gmail.com

Dr Ugur Cakilcioglu
Associate Professor
Munzur University
Pertek-Tunceli, Turkey
E-mail: ucakilcioglu@yahoo.com

Wend Wendland
Director
Traditional Knowledge Division, WIPO
E-mail: wend@wendwendland.com

Prof Saroj K Barik
Professor
Dept of Botany
NEHU, Shillong, India
E-mail: sarojkbarik@gmail.com

Dr Indah Widiastuti, ST, MT
Associate Professor
History, Theory, and Critic of Architecture,
School of Architecture, Planning, and
Policy Development
Institut Teknologi Bandung
Labtek IX B Gedung Arsitektur
Jalan Ganeca No.10
Bandung 40132, Indonesia
E-mail: indahwidiastuti71@gmail.com

Dr Subhash C Mandal
Secretary
Society for Ethnopharmacology
Jadavpur, Kolkata 700032, India
E-mail: subhash.mandaldr@gmail.com

Dr Pardeep K Bhardwaj
Scientist
Institute of Bioresources and Sustainable
Development
Takyerpipat, Imphal 795001, India
E-mail: pardeep2128@gmail.com

Dr Amit Kar
Project Scientist
Institute of Bioresources and Sustainable
Development
Takyerpipat, Imphal 795001, India
E-mail: amit.kar2@gmail.com

Prof Marco Leonti
Professor
Department of Biomedical Sciences,
University of Cagliari, Italy
E-mail: mleonti@unica.it;
marcoleonti@hotmail.com

Dr A K Singh,
Vice Chancellor
Rani Lakshmi Bai Central Agricultural
University, Jhansi 284003, India
E-mail: aksicar@gmail.com;
vcrlbcau@gmail.com

Prof Motlalepula G Matsabisa
Professor & Director
IKS lead Program
Department of Pharmacology
University of the Free State,
Bloemfontein, SA
E-mail: MatsabisaMG@ufs.ac.za

Prof Virendra Kumar Paul
Professor of Building Engineering and
Management
School of Planning and Architecture Delhi,
India
E-mail: vk.paul@spa.ac.in

Prof Nomesh Bolia
Department of Mechanical Engineering
Indian Institute of Technology Delhi
New Delhi, India
E-mail: nomesh@mech.iitd.ac.in

Director, CSIR-NIScPR (*Ex-Officio*)

Scientific Editor: Dr Charu Lata (charulata@niscpr.res.in)

Associate Scientific Editor: Dr Paramananda Barman (param@niscpr.res.in)

Editorial Assistant: Shri Hashim Ali (hashimali@niscpr.res.in)

**Published by the National Institute of Science Communication and Policy Research, CSIR
Dr K S Krishnan Marg, New Delhi 110 012, India**

E-mail: ijtk@niscpr.res.in; **Phones:** 011-26964473; 25846304-7, Ext. 251; **Website:** https://niscpr.res.in/

The Indian Journal of Traditional Knowledge is published monthly.

The Institute assumes no responsibility for the statements and opinions advanced by the contributors. The editorial staff in its work of examining papers received for publication is assisted, in an honorary capacity, by a large number of distinguished scientists. Communications regarding contributions for publication in the journal should be addressed to the **Editor, Indian Journal of Traditional Knowledge, National Institute of Science Communication and Policy Research, Dr K S Krishnan Marg, New Delhi 110 012**. Payments in respect of subscriptions may be made through NEFT/RTGS, payable to NIScPR, New Delhi. The details of Bank Account for NEFT/RTGS transactions are as follows:

Bank name: CANARA Bank
Account No: 110003874485
MICR Code: 110015428

Address: NPL Campus, New Delhi 110012, India
Beneficiary Name: CSIR-NIScPR, New Delhi 110012
Branch Code: 9029

Branch: NPL Campus, New Delhi
IFSC Code: CNRB0019100
SWIFT Code: CNRBINBBBFD

All correspondence regarding subscription, renewal, claims for missing numbers and advertisements should be addressed to the **Head, Business Development Group & Industry, CSIR-National Institute of Science Communication and Policy Research., Vigyan Sanchar Bhawan, Dr K S Krishnan Marg, New Delhi 110 012.**

Phone: 25843359 (Subscription Complaint)/25846301, 25846304-07 Extn 287, 288. **E-mail:** sales@niscpr.res.in

E-mail: ijtk@niscpr.res.in, **Website:** www.niscpr.res.in; http://nopr.niscpr.res.in

Claim for missing number(s) of the journal(s) will be allowed only if received within 3 months of the date of issue of the journal plus the time normally required for postal delivery of the journal(s) and the claim.

#Annual Subscription (12 issues):	Rs 5760.00	\$ 780.00*
#Single Copy:	Rs 576.00	\$ 78.00*

#Subject to Revision

For inland outstation cheques add Rs. 50.00. For foreign cheques add \$ 10.00.

*Inclusive of first class mail

© 2024 CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), New Delhi 110 012

CSIR-NIScPR Policy on Plagiarism

The system of formal communication in science through publication in primary journals is based on originality and quality of information, being the only criteria for publication. However, there have been tendencies to misuse the system and vitiate the process of science communication for personal benefits. One of the ills, afflicting science communication, is plagiarism. Attempts at plagiarism may range from verbatim copying of extensive material of other authors, misappropriating results/data of others with minor changes in language/presentation without giving credit to original source, and to publishing essentially the same information more than once.

As the premier institution of publishing primary scientific journals in various disciplines of science and technology in India, CSIR-NIScPR strongly reiterates its policy of discouraging plagiarism of all kinds. All efforts are made to detect and frustrate attempts at plagiarism through editorial screening and rigorous peer review in respect of communications received for publication in the CSIR-NIScPR publications. Cooperation of the scientific community is sought in our efforts to frustrate all attempts at plagiarism.

In case, any attempt of plagiarism is brought to our attention accompanied with convincing evidence, following steps would be taken:

- (a) After consulting the respective Editorial Board Members, authors guilty of plagiarism will be debarred from publishing their papers in CSIR-NIScPR journals.
- (b) Heads of the Departments/Institutes of the offending authors will be intimated of such incidences of plagiarism.
- (c) Such incidents of plagiarism will be publicized through the concerned CSIR-NIScPR journals in consultation with the respective Editorial Board Members.

Publisher's Note: CSIR-NIScPR remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

