238  In this issue

GUEST EDITORIAL

239  Biomedical research in India: paradigm shift to translation
Govindarajan Padmanaban and Renu Swarup

CORRESPONDENCE

241  Rediscovering our universities by increasing their level of support, M. Periasamy

241 Leading Indian higher education institutions and the Leiden 2016 ranking, Gangan Prathap

243 Relocation of Ophioglossum gramineum Willd (Ophioglossaceae), Kishore S. Rajput, Ronak N. Kachhiyapatel, V. M. Raole and Anirudh Pratap Singh

NEWS

244  Science Last Fortnight, edited by K. P. Madhu and Gita Madhu

246 Visit KKNPP – an initiative for public understanding of nuclear power, J. Devaprakash

OPINION

250  Would scientists be willing to write anonymous papers?

COMMENTARY

252  Drug discovery research in India
Madhu Dikshit and D. K. Dikshit

SCIENTIFIC CORRESPONDENCE

256  Natural resource conservation through weather-based agro-advisory

258  Mitochondrial genome sequence of Oryza sativa indica cultivar RP Bio-226
Mettu Madhavi Reddy and Kandasamy Ulaganathan

261  Cysted forms of halophilic microalga Dunaliella salina under different stress conditions
Suman Keerthi, Uma Devi Koduru, Subba Rao Durvasula Venkata and Nittala Subrahmanya Sarma

GENERAL ARTICLES

263  Evolving human dimensions and the need for continuous health assessment of Indian rivers
Ipsita Nandi, Ananya Tewari and Kavita Shah

272  Scaling-up of protected cultivation in Himachal Pradesh, India
Anil K. Choudhary

SPECIAL SECTION: INTEGRATIVE MEDICINE

278  Preface
S. R. Narahari, Terence J. Ryan and M. Guruprasad Aggithaya

280  Expanding the scientific horizon of integrative medicine
S. R. Narahari, Terence J. Ryan and M. Guruprasad Aggithaya
Manasamitra Vataka and Shirodhara treatments preserve slow wave sleep and promote sleep continuity in patients with generalized anxiety disorder and co-morbid generalized social phobia

Status of regulation on traditional medicine formulations and natural products: Whither is India?
Nandini K. Kumar and Pradeep Kumar Dua

Developing an integrative medicine patient care protocol from the existing practice of Ayurveda dermatology
S. R. Narahari, Madhur G. Aggithaya, Sara E. Morrow and Terence J. Ryan

Integrative medicine atlas of skin diseases
S. R. Narahari and Madhur G. Aggithaya

Disorders of pigmentation of the skin – hypotheses underlying interventions by multiple systems of medicine: is there a role for integrated medicine?
Sanju Arianayagam and Terence J. Ryan

Reverse pharmacology effectuated by studies of Ayurvedic products for arthritis
Ashwinikumar Raut, Girish Tillu and Ashok D. B. Vaidya

The integration of complementary and alternative medicine: the way forward for the health of skin and gut
Dilraj S. Kalisi and Terence J. Ryan

Integrated care and leprosy in India: a role for Indian systems of medicine and traditional health practice in the eradication of leprosy
David Chandler

Chemometric modelling of PPAR-α and PPAR-γ dual agonists for the treatment of type-2 diabetes
Neha Verma and Usha Chouhan

Influence of variable bifurcation angulation and outflow boundary conditions in 3D finite element modelling of left coronary artery on coronary diagnostic parameter

Canopy temperature and water relations of kiwifruit cultivar Allison in response to deficit irrigation and in situ moisture conservation
Preet Pratima, N. Sharma and D. P. Sharma

Conservation effectiveness across state and community forests: the case of Jaintia Hills, Meghalaya, India
Rajkamal Goswami, Muneeswaran Mariappan, Thangjam Somendro Singh and T. Ganesh

Studies on bio-pretreatment of pine needles for sustainable energy thereby preventing wild forest fires
R. K. Dwivedi, R. P. Singh and T. K. Bhattacharya

Histological analysis of somatic embryogenesis in Itoh peony
E. V. Boltenkov, E. V. Kuritskaya and E. V. Vrzhostek

Nature of forest fires in Uttarakhand: frequency, size and seasonal patterns in relation to pre-monsoonal environment
Ripu Daman Singh, Surabhi Gumber, Pankaj Tewari and S. P. Singh
404 Flowering and fruiting patterns of woody species in the tropical montane evergreen forest of southern India
D. Mohandass, Alice C. Hughes and Priya Davidar

416 Record of Gondwana plant mega- and microfossils in Nimugudem area, Telangana, India: palynodating and palaeoenvironmental interpretation
Neerja Jha, Harinam Joshi and Shreya Mishra

BOOK REVIEWS

425 Water Resource Economics: Towards a Sustainable Use of Water for Irrigation in India by M. G. Chandrakanth, reviewed by Mahadev G. Bhat


427 Combating Hunger and Achieving Food Security by M.S. Swaminathan, reviewed by S. Mahendra Dev

PERSONAL NEWS

429 Vinod V. Modi (1929–2016)
Anjana Desai

COVER. Integrating Modern Medicine and Ayurveda for treating chronic diseases. See special section.

The editor thanks Dr S. R. Narahari and Dr M. Guruprasad Aggithaya, Institute of Applied Dermatology, Uliyathadka, Madhur Road, Kasaragod 671 124, India; Dr Terence J. Ryan, Department of Dermatology, Churchill Hospital, Oxford, Headington OX3 7LE, UK for agreeing to be guest editors for the special section.

Indexed in CURRENT CONTENTS/GEOBASE/CHEMICAL ABSTRACTS/IndMED/SCOPUS/WEB OF SCIENCE