



Challenges of direct-seeded rice adoption

Exploring meiotic origins of *Drosophila ananassae* recombination

The ripple effect: oil sardine variations in Kerala fisheries

CURRENT SCIENCE

486 **Highlights of the Issue**

GUEST EDITORIAL

487 **Improving weather forecasts: the way forward**
Ravi S Nanjundiah

CORRESPONDENCE

489 **Frugality factor – a measure for frugal research**
Gangan Prathap

NEWS

492 **Reverse prime editing: a leap in precision genome engineering**
V. Shree Yazhini

MEETING REPORT

494 **Integrating omics for future-ready plant science – reflections**
Sona Charles, K. Anees, D. Prasath, T. E. Sheeja and Shahana Arif

OPINION

496 **Rocky road for direct-seeded rice: understanding the adoption barriers of this climate resilient technology**
S. Vijayakumar and Sudhir Kumar Rajpoot

COMMENTARY

499 **Demonstration of spontaneous recombination in males of *Drosophila ananassae* as meiotic in origin**
Bashisth N. Singh

RESEARCH ACCOUNT

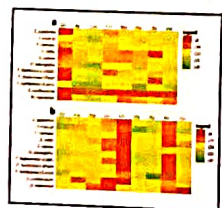
502 **Data-driven fog forecasting for the Indo-Gangetic Plains**
Prasad Deshpande, Arnab Bhattacharya and Shivam Tripathi

RESEARCH ARTICLES

513 **Why use vertical stratification and directionality to assess insect foraging behaviour on trees?**
D. P. Abrol

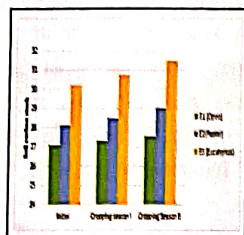
520 **Evaluating the nutritional composition of edible insects: an alternative source of food supplements in Nagaland**
Patricia Kiewhuo, Neha Trivedi, Lirikum Jing, Kizukala Jamir, Bendang Ao, Aditya K. Tanwar, Sandeep Kumar, Mukesh K. Dhillon and L. N. Kakati

527 **An overview of NCMRWF model guidance for 12th Indian Scientific Expedition to the Southern Ocean**
Suraj Ravindran, Akhilesh K. Mishra, Anoop S. Mahajan, Ankur Gupta, Imranali M. Momin, Saji Mohandas, Sumit Kumar, John P. George and V. S. Prasad



537 **Economic assessment of natural farming over conventional methods in Himachal Pradesh, India**

Adit Kumar Yadav, Ashu Chandel, Rajeshwar Singh Chandel, Rakesh Kumar Gupta, Subhash Sharma, S. Vishnu Shankar and S. Ananthkrishnan



544 **Comparative assessment of mustard (*Brassica juncea*) genotypes under *Populus dectoloides* and *Eucalyptus teretecornis* based agroforestry systems for soil carbon maintenance: an implication for climate change alleviation**

Anjana Chauhan and Salil Tewari

RESEARCH COMMUNICATION

553 **Understanding recent variations in the zero year-class entries of Indian oil sardine and its impact on the fisheries of Kerala**

U. Ganga, Shelton Padua, S. Surya, C. Anulekshmi, K. G. Mini, Somy Kuriakose, S. A. Giya, A. Prince, Shoba Joe Kizhakudan and Grinson George

BOOK REVIEW

559 **Cryo-Electron Microscopy in Structural Biology: From Structural Insights to Tomography and Drug Discovery**

Dipankar Chatterji

◀ COVER. Major challenges faced by farmers in the direct-seeded rice (DSR) system. See page 496.

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