



A CSIR Publication



Indian J Exp Biol (Monthly)
MARCH 2019

CODEN:IJEB(A6) 57 (03) 151-220 (2019)
ISSN: 0019-5189 (Print); 0975-1009 (Online)
ijeb@niscair.res.in

Single copy: Rs. 460.00 \$80.00
Annual Subs: Rs. 4600.00 \$800.00

Indian Journal of Experimental Biology

www.niscair.res.in

CSIR-National Institute of Science Communication And
Information Resources
New Delhi, INDIA
in association with
Indian National Science Academy, New Delhi, INDIA

Indian Journal of Experimental Biology

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

VOLUME 57

NUMBER 03

MARCH 2019

CODEN: IJEB (A6) 57 (03) 151-220 (2019)

ISSN: 0019-5189 (Print); 0975-1009 (Online)

CONTENTS

Papers

Effects of methanolic extract of <i>Verbascum inulifolium</i> Hub.-Mor. on incisional and excisional skin wounds in diabetic and non-diabetic rats	157
Yusuf Özay, Sevda Güzel, Ebru Gökalp Özorkmaz, Zuhal Yıldırım, Atilla Yıldız, İbrahim Halil Erdoğdu, Sinan Darcan, Burçin Pehlivanoğlu & Meltem Kumaş	
Chemical composition and skin inflammation protective profile of pulegone rich essential oil of <i>Mentha arvensis</i> L.	168
Anil Kumar Maurya, Janak Raj Bahl, Anju Yadav, Om Prakash, Archana Saxena, Anirban Pal, Chandan Singh Chanotiya, Feroz Khan & Dnyaneshwar Umrao Bawankule	
Antibacterial and anticancer activities of silver nanoparticles biosynthesized using <i>Embelia ribes</i> Burm.f. berries extract	175
D Manikandan, D Gnana Prakash, J Arun, N Nagendra Gandhi, U Mani & K Kathirvan	
Growth, yield and nitrogen uptake in rice crop grown under elevated carbon dioxide and different doses of nitrogen fertilizer	181
Amita Raj, B Chakrabarti, H Pathak, SD Singh, U Mina & TJ Purakayastha	
Physiological and morphological traits of Maize hybrids under saline water irrigation	188
B Nandhini Devi & T Chittadewari	
Development of callus and cell suspension culture from the leaf of <i>Adhatoda vasica</i> Nees using economical growth media	195
Suman Kashyap & Radha D Kale	
Protease, lipase and amylase extraction and optimization from activated sludge of pulp and paper industry	201
Santosh Kumar Karn & Awanish Kumar	
NOTES	
Phytochemical analysis and antimicrobial evaluation of chloroform extracts of stem and roots of <i>Scoparia dulcis</i> L.	206
Radhika Parvataneni & Mahesh Pedireddi	
Estimation of withanolide-A in diverse genotypes of Ashwagandha <i>Withania somnifera</i> (L.) Dunal	212
Surya Chauhan, Arunabh Joshi, Rohit Jain & Devendra Jain	
Simultaneous extraction of pectin, fibre, anthocyanin and oil from mulberry pomace	218
Neelima Garg, Preeti Yadav & Sanjay Kumar	