



A CSIR Publication

Indian J Exp Biol (Monthly)

NOVEMBER 2024

CODEN: IJEB (A6)62(11)847-930(2024)

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

ijeb@niscpr.res.in

Single copy: Rs. 736.00 \$96.00

Annual Subs: Rs. 7360.00 \$960.00

# Indian Journal of Experimental Biology

28|1|25  
SB

# Indian Journal of Experimental Biology

<https://niscpr.res.in>; <https://nopr.niscpr.res.in>; <https://or.niscpr.res.in>

---

VOLUME 62

NUMBER 11

NOVEMBER 2024

CODEN: IJEB (A6) 62 (11) 847-930 (2024)

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

---

## CONTENTS

### Papers

RNA interference in agricultural insect pest management: Status and perspectives Nitish Ranjan Prakash, Amit Ahuja, Santosh Kumar, Varun Saini, Archana Anokhe, Deepanshu Jayaswal & Kuldeep Kumar	851
Effect of chemical mutagens on expression of therapeutic protein-streptokinase in wild strain <i>Streptococcus equinus</i> VIT_VB2 Vaishnavi Babu, Mohanasrinivasan V, George Priya Doss C, Sanjeev K Ganesh & Subathra Devi C	862
Probing the risk markers of mild cognitive impairment and Alzheimer's disease in alloxan-induced diabetic rats Yogaraje Gowda C Varadaiah, Senthilkumar Sivanesan, Mathew D Howell, Jayakumar Rajadas, Suchitra Kavuri, Rajagopalan Vijayaraghavan & Kashinath RT	873
Exploring urinary biomarkers for the diagnosis of diabetic and hypertensive chronic kidney disease: A promising pilot study Sumana Saseevan, Nadeesha Nishanthi, Sanath Rajapakse & Dhammadika Magana-Arachchi	884
Pro-apoptotic and oxidative effects of artemisinin and l-carnitine on testes Zahra Nezamabadi, Mehdi Basaki, Hossein Tayefi-Nasrabadi, Gholamreza Hamidian & Amirali Shahbazfar	895
Effect of acute and chronic ellagic acid administration on penicillin induced epileptiform activity in rats Ersin Beyazcicek, Seyit Ankarali, Ozge Beyazcicek & Handan Ankarali	902

### Notes

An experimental approach to development and evaluation of hepatoprotective polyherbal formulation Ramesh Kumar Gupta, Sudhansu Ranjan Swain, Jagannath Sahoo & Kislaya Mishra	913
Effect of caffeic acid phenethyl ester in doxorubicin induced descending aorta damage Olcay Murat Disli, Nevzat Erdil, Baris Akca, Onural Ozhan, Merve Durhan, Azibe Yildiz & Yilmaz Cigremis	925