

# 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 851  
 Nitish Ranjan Prakash, Amit Ahuja, Santosh Kumar, Varun Saini, Archana Anokhe, Deepanshu Jayaswal & Kuldeep Kumar
- Effect of chemical mutagens on expression of therapeutic protein-streptokinase in wild strain *Streptococcus equinus* VIT\_VB2 862  
 Vaishnavi Babu, Mohanasrinivasan V, George Priya Doss C, Sanjeev K Ganesh & Subathra Devi C
- Probing the risk markers of mild cognitive impairment and Alzheimer's disease in alloxan-induced diabetic rats 873  
 Yogaraje Gowda C Varadaiah, Senthilkumar Sivanesan, Mathew D Howell, Jayakumar Rajadas, Suchitra Kavuri, Rajagopalan Vijayaraghavan & Kashinath RT
- Exploring urinary biomarkers for the diagnosis of diabetic and hypertensive chronic kidney disease: A promising pilot study 884  
 Sumana Saseevan, Nadeesha Nishanthi, Sanath Rajapakse & Dhammika Magana-Arachchi
- Pro-apoptotic and oxidative effects of artemisinin and l-carnitine on testes 895  
 Zahra Nezamabadi, Mehdi Basaki, Hossein Tayefi-Nasrabadi, Gholamreza Hamidian & Amirali Shahbazfar
- Effect of acute and chronic ellagic acid administration on penicillin induced epileptiform activity in rats 902  
 Ersin Beyazcicek, Seyit Ankarali, Ozge Beyazcicek & Handan Ankarali
- ### Notes
- An experimental approach to development and evaluation of hepatoprotective polyherbal formulation 913  
 Ramesh Kumar Gupta, Sudhansu Ranjan Swain, Jagannath Sahoo & Kislaya Mishra
- Effect of caffeic acid phenethyl ester in doxorubicin induced descending aorta damage 925  
 Olcay Murat Disli, Nevzat Erdil, Baris Akca, Onural Ozhan, Merve Durhan, Azibe Yildiz & Yilmaz Cigremis

### Author Index

Ahuja A	851	Hamidian G	895	Prakash NR	851
Akca B	925	Howell MD	873	Rajadas J	873
Ankarali H	902	Jayaswal D	851	Rajapakse S	884
Ankarali S	902	Kashinath RT	873	Sahoo J	913
Anokhe A	851	Kavuri S	873	Saini V	851
Babu V	862	Kumar K	851	Saseevan S	884
Basaki M	895	Kumar S	851	Shahbazfar A	895
Beyazcicek E	902	Magana-Arachchi D	884	Sivanesan S	873
Beyazcicek O	902	Mishra K	913	Subathra DC	862
Cigremis Y	925	Mohanasrinivasan V	862	Swain SR	913
Disli OM	925	Nezamabadi Z	895	Tayefi-Nasrabadi H	895
Durhan M	925	Nishanthi N	884	Varadaiah YGC	873
Erdil N	925	Ozhan O	925	Vijayaraghavan R	873
Ganesh SK	862			Yildiz A	925
George PDC	862				
Gupta RK	913				

### Keyword Index

Amidolytic activity	862	Gene	873	Peroxidase	895
Amyloid	873	Gene expression analysis	884	Polyharbal formulation	913
Antiepileptic	902	Gene silencing	851	RAMPAGE analysis	862
Antioxidant	925	Glutathione	895	Rat	925
Aorta	925	Hepatotoxicity	913	RNA interference (RNAi)	851
Artemisinin	895	Insect-pest	851	RT-qPCR	884
<i>Bax</i>	895	Integrated pest management (IPM)	851	Serum biomarker	884
<i>Bcl2</i>	895	Lactate	873	Serum markers	873
Biological control	851	L-carnitine	895	siRNA	851
CAPE	925	Neuroprotective	902	Superoxide dismutase	913
Clot busters	862	N-methyl- N'-nitro- N-nitroso guanidine (NTG)	862	Trikatu	913
Doxorubicin	925	Non-invasive diagnosis	884	Urate turnover	873
Electrocorticography	902	Onset of first epileptiform activity	902		
Ethyl methyl sulphonate (EMS)	862				