



A CSIR Publication

Indian J Biochem Biophys

DECEMBER 2024

CODEN: IJBBQ 61 (12) 759-872 (2024)

ISSN: 0301-1208 (Print); 0975-0959 (Online)

ijbb@niscpr.res.in

Single Copy: Rs. 736.00 \$ 96.00

Annual Subs: Rs. 7360.00 \$ 960.00

Indian Journal of Biochemistry and Biophysics

07/01/25
03<https://niscpr.res.in>

CSIR-National Institute of Science Communication And
Policy Research
New Delhi, INDIA

Indian Journal of Biochemistry & Biophysics

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

VOLUME 61

NUMBER 12

DECEMBER 2024

CODEN: IJBBBQ 61 (12) 759-872 (2024)

ISSN: 0301-1208 (Print); 0975-0959 (Online)

CONTENTS

Papers

- Adaptive evolutionary research of the guanylate binding proteins family 765
Gao Yixuan, Gao Jian, Gao Yuqi, Guo Xingru, An meng, Gu Limeng & Xie Jiuxia*
- Apoptotic effect of antioxidants with silver and titanium dioxide nanoparticles on glioblastoma cancer cells in BALB/C mice 776
Sara Khojastehkiakola, Masomeh Heshmati, Mehrdad Hashemi & Maliheh Entezari*
- Investigation of cholinergic inhibition by donepezil-rimegepant hybrids in alzheimer's disease: An *in silico* study 788
Karthikeyan Asokan and Selvarengan Paranthaman*
- Spectroscopic, computational, docking, and cytotoxicity studies on 5-chlorobenzimidazole as a Potent anti-breast cancer agent 804
VS Kunjumol, N Karthik, S Sumathi & S Jeyavijayan*
- ADAM8 influences the activity of synovial macrophages and fibroblast-like synoviocytes in osteoarthritis 821
Li Wang, Kewei Ji, Junfeng Chen, Guoyi Ou, Qinglan Yao & Youguang Tan*
- Transforming expired medicines into TiO₂ nanoparticles 829
S Bhullar*, N Goyal & S Gupta³
- In vitro* toxicological investigation of *Fusarium graminearum* toxins in *Rattus norvegicus* myocardial H9c2 cells 838
Naveen Kumar Kalagatur*, Anusuya Nagaraj, S Poda & Salla Hemadri Reddy
- Morphotaxonomy and Genetic diversity of different *Oxalis* species in Jharkhand, India 846
Sangita Kumari, Sumit Kumar Pathak, Charupriya Chauhan & VK Yadav*