

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*

Annual Author Index	853
Annual Subject Index	855
List of Experts	869
Instructions to Authors	870
*Author for correspondence	

Author Index

Asokan K	788	Jian G	765	Paranthaman S	788
Bhullar S	829	Jiuxia X	765	Pathak SK	846
Chauhan C	846	Kalagatur NK	838	Poda S	838
Chen J	821	Karthik N	804	Reddy SH	838
Entezari M	776	Khojastehkiakola S	776	Sumathi S	804
Goyal N	829	Kumari S	846	Tan Y	821
Gupta S	829	Kunjumol VS	804	Wang L	821
Hashemi M	776	Limeng G	765	Xingru G	765
Heshmati M	776	Meng A	765	Yadav VK	846
Jeyavijayan S	804	Nagaraj A	838	Yao Q	821
Ji K	821	Ou G	821	Yixuan G	765
				Yuqi G	765

Keyword Index

5-chlorobenzimidazole	804	Ecological Footprint	829	Odd-toed ungulates	765
AChE	788	Even-toed ungulates	765	Osteoarthritis	821
ADAM8 (A disintegrin and metalloprotease 8)	821	Expired Medicines	829	<i>Oxalis</i>	846
AFLP	846	Fibroblast-like synoviocytes	821	Phylogenetic and evolutionary characteristics	765
Alzheimer's disease	788	<i>Fusarium graminearum</i>	838	Plant adaptation	846
Breast cancer	804	Genetic diversity	846	Rimegepant	788
Caspase-3	838	Glioblastoma	776	Sol-gel	829
Characterization	829	Guanylate binding proteins	765	Sustainability	829
Curcumin	776	Jharkhand	846	TFAM	776
Cytotoxicity	804	Macrophage polarization	821	Titanium dioxide	829
Density functional theory	788	miR-455	776	Vitamin C	776
Deoxynivalenol	838	Molecular docking	788	Vitamin E	776
DFT	804	Morphology	846	Zearalenone	838
Docking	804	Nanoparticles	776, 829		
Donepezil	788	Nivalenol	838		