



A CSIR Publication

Indian J Biochem Biophys

FEBRUARY 2026

CODEN: IBBQ 63 (2) 123 - 236 (2026)

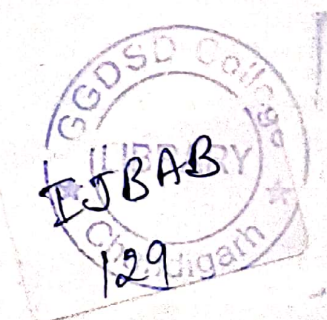
ISSN: 0301-1208 (Print); 0975-0959 (Online)

ijbb.niscpr@csir.res.in

Single Copy: Rs. 736.00 \$ 96.00

Annual Subs: Rs. 7360.00 \$ 960.00

Indian Journal of Biochemistry and Biophysics



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

<https://niscpr.res.in>

Indian Journal of Biochemistry & Biophysics

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

VOLUME 63

NUMBER 2

FEBRUARY 2026

CODEN: IJBBBQ 63 (2) 123-236 (2026)

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

CONTENTS

Papers

- Hepatocyte lipoapoptosis as a mechanism of chronic liver injury in obese mice model: a close link with fetuin-A 127
Guria S, and Mukherjee S*
- Revolutionizing drug discovery in lung cancer: An artificial intelligence (AI)-assisted framework for identifying target antigens for antibody-drug conjugates 137
Christanto A*, Setyawan UA & Chozin IN
- Optical properties of DNA-polydimethylsiloxane double layered structures 145
Gasparyan L, Simonyan V & Gasparyan F*
- Phytochemical investigation and integrating network pharmacology of *Trigonella foenum graecum* Linn. for antidiabetic potential 153
Kumar P, and Tiwari SB*
- In vitro* anti-mitotic activity of *Hibiscus rosa-sinensis* extract: Network pharmacology, Molecular docking, MM/GBSA dynamic simulation, and DFT calculation 163
Thapa S, Arora M, Mahmood AAR, Biradar MS*, Aleesha MS & Maurya SN
- Enhancing diagnostic precision and accuracy in invasive lobular carcinoma through machine learning approaches 181
Priya LS, Shri ST, Swathi J, Premnath D & Indiraleka M*
- Computational analysis of non-competitive enzyme inhibition in microbial and biomedical applications 190
Patel K, and Kumawat J*
- Biogenic synthesis and characterization of gold nanoparticles using *Vitis vinifera* seed extract: Exploring antioxidant, anti-inflammatory and anti-cancer activities 200
Kowsalya B, Narendhirakannan RT*, Sinouvassane D, Mariya AAV & Venkatesh R
- In silico* screening identifies Daphnodorin-C as a potential inhibitor of the PMK1 pathway in the management of rice blast disease 217
Sambangi RR, Darru P & Sajja UB*
- Evaluating the efficacy of *Tribulus terrestris* on pH dependent uric acid crystallization under experimental condition 228
Krishnan AAS, Pradhane AP, Dhamole PB* & Methekar RN

Author Index

Aleesha MS	163	Kowsalya B	200	Priya LS	181
Arora M	163	Krishnan AAS	228	Mahmood AAR	163
Biradar MS	163	Kumar P	153	Sajja UB	217
Chozin IN	137	Kumawat J	190	Sambangi RR	217
Christanto A	137	Mariya AAV	200	Setyawan UA	137
Darru P	217	Maurya SN	163	Shri ST	181
Dhamole PB	228	Methekar RN	228	Simonyan V	145
Gasparyan F	145	Mukherjee S	127	Sinouvasane D	200
Gasparyan L	145	Narendhirakannan RT	200	Swathi J	181
Guria S	127	Patel K	190	Thapa S	163
Indiraleka M	181	Pradhane AP	228	Tiwari SB	153
		Premnath D	181	Venkatesh R	200

Keyword Index

Absorbance	145	High fat diet	127	NPASS database	217
AKT1 signaling	163	<i>In silico</i> studies	163	Obesity	127
Antibody-drug conjugates	137	Insulin resistance	127	Palmitate	127
Anti-cancer	163	Invasive lobular carcinoma	181	PI3K-Akt signaling pathway	153
Antioxidant activity	228	Kinetics	190	Precision and accuracy	181
Antiurolithiatic potential	228	Liver	127	Reflectance	145
Artificial intelligence	137	Lung adenocarcinoma	137	Refractive index	145
Asymptotic behaviour	190	Machine learning	181	Rice blast fungus	217
AuNps	200	<i>Magnaporthe oryzae</i>	217	Sensitive analysis	190
Bioactive compounds	228	Mathematical modelling	190	Stability analysis	190
Bioinformatics integration	163	Mitogen activated protein kinase	217	Thermodynamics	190
Bioinformatics pipeline	137	Molecular docking	217	Transfer matrix method	145
Crystallization	228	Molecular dynamics simulation	217	Translational oncology	137
Cytotoxicity	200	Nanoparticles	200	Trigonelline	153
<i>Daphne odora</i>	217	Natural compounds	217	Uric acid inhibition	228
Diabetes mellitus	153	Natural product	163	<i>Vitis vinifera</i>	200
Diagnosis	181				
Diosgenin	153				
EGFR inhibition	163				