

Indian Journal of Biochemistry & Biophysics

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

VOLUME 56

CODEN: IJBBQ 56 (2) 99-178 (2019)

NUMBER 2

April 2019

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

CONTENTS

Papers

Expression, purification and characterization of a biologically active and thermally stable human lysyl oxidase	105
Renganathan Bhuvanasundar, Nareshkumar Nagaraj Ragavachetty, Naveen Kumar Singh, Karunakaran Coral, Perinkulam Ravi Deepa & Konerirajapuram Natarajan Sulochana*	
Purification, Characterization and Functional Analysis of a Serine Protease Inhibitor from the Pulps of <i>Cicer arietinum</i> L. (Chick Pea)	117
Lakshminarayanan Karthik, Radhakrishnan Manohar, Kanal Elamparithi & Krishnasamy Gunasekaran*	
Physicochemical studies of closed loop insulin delivery system based on intelligent carboxymethyl cellulose hydrogel	125
Leila Zolghadr, Bahman Vasheghani Farahani*, Hossein Ghasemzadeh & Nasrin Javadi	
Bioreduction of silver nanoparticles from aerial parts of <i>Euphorbia hirta</i> L. (EH-ET) and its potent anticancer activities against neuroblastoma cell lines	132
P Selvam, T Vijayakumar, Ashish Wadhwani & L Muthulakshmi*	
Comparative study on melanin production and collagen expression profile of polyphenols and their glycosides	137
Puspala Bashyal, Ha Young Jung, Ramesh Prasad Pandey* & Jae Kyung Sohng*	
Elemental composition and X-ray diffraction studies of <i>Strobilanthes</i> species	144
Maria Cineola Fernandes & Krishnan Sellappan*	
Application of multiple linear regression and machine learning algorithms to elucidate the association of poor glycemic control and hyperhomocysteinemia with microalbuminuria	150
Iyyapu Krishna Mohan, NN Sreedevi, KSS Sai Baba, M Vijaya Bhaskar, Tajamul Hussain, Salman A Alrokayan & Shaik Mohammad Naushad*	
Oxidation products of DNA, lipid and protein among the individuals progressing towards metabolic syndrome	155
Rinchen D Bhutia*, Bidita Khandelwal, Mingma L Sherpa & TA Singh	
Natural anti-phytopathogenic fungi compound phenol, 2, 4-bis (1, 1-dimethylethyl) from <i>Pseudomonas fluorescens</i> TL-1	162
Jianguo Ren, Junli Wang*, Sivakumaran Karthikeyan, Hongmei Liu & Jing Cai	
Cytotoxic, antimicrobial and DNA breaking activity of Salgam	169
Mostafa Norizadeh Tazehkand* & Ebrahim Valipour	

Instructions to Authors	175
Plagiarism	178
*Author for correspondence	

Author Index

Alrokayan SA	150	Javadi N	125	Sai Baba KSS	150
Bashyal P	137	Jung HY	137	Sellappan K	144
Bhaskar MV	150	Karthik L	117	Selvam P	132
Bhutia RD	155	Karthikeyan S	162	Sherpa ML	155
Bhuvanasundar R	105	Khandelwal B	155	Singh NK	105
Cai J	162	Liu H	162	Singh TA	155
Coral K	105	Manohar R	117	Sohng JK	137
Deepa PR	105	Mohan IK	150	Sreedevi NN	150
Elamparithi K	117	Muthulakshmi L	132	Sulochana KN	105
Farahani BV	125	Naushad SM	150	Tazehkand MN	169
Fernandes MC	144	Pandey RP	137	Valipour E	169
Ghasemzadeh H	125	Ragavachetty NN	105	Vijayakumar T	132
Gunasekaran K	117	Ren J	162	Wadhwani A	132
Hussain T	150			Wang J	162
				Zolghadr L	125

Keyword Index

2, 4-bis (1,1-dimethylethyl)	162	Flavonoid	137	Neuroblastoma cell lines	132
Anti-aging	137	Gas chromatography	162	Oxidative stress	155
Antibacterial effect	169	Genotoxicity	169	Phenol	162
Anticancer activity	132	Glycosides	137	Protein carbonyl	155
Breast cancer cell lines	132	HbA1c	150	<i>Pseudomonas fluorescens</i>	162
Carboxymethyl cellulose (CMC)	125	Homocysteine	150	Raphides	144
Circular dichroism spectrum	117	Hydrogel	125	Recombinant mLOX	105
Column chromatography	162	Insulin	125	Serine protease inhibitor	117
Competitive/non-competitive inhibition	117	Lipid peroxidation	155	Silver nanoparticles	132
Cystoliths	144	Machine learning algorithms	150	Spectroscopy and structure stability	105
Cytotoxicity	137	Mass spectrometry	162	<i>Strobilanthes</i>	144
Diabetes	125, 150	Metabolic syndrome	155	Thermodynamic	125
DNA damage	155	Microalbuminuria	150	Trypsin/chymotrypsin inhibitor	117
EDS	144	Mineral phase	144	Vero cells	132
Enzyme kinetics	105, 117	Minimum bactericidal concentration (MBC)	169	Whitening	137
<i>Euphorbia hirta</i> L.	132	Minimum inhibitory concentration (MIC)	169	XRD	144