

Indian Journal of Biochemistry & Biophysics

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

VOLUME 57 **NUMBER 1** **February 2020**
 CODEN: IJBBQ 57 (1) 1-116 (2020) ISSN: 0301-1208 (Print); 0975-0959 (Online)

CONTENTS

Papers

- Trace elements analysis of *Biophytum sensitivum* (L.) DC. by EDXRF spectroscopy and its therapeutic role in diabetes mellitus 8
 S Santhosh Kumar*, M Sudarshan & A Chakraborty
- Protective effect of *Trigonella foenum-graecum* and *Cinnamomum zeylanicum* against diabetes induced oxidative DNA damage in rats 15
 Sapneh Sharma, Vibhuti Mishra & Nalini Srivastava*
- A novel compound β -sitosterol-3-O- β -D-glucoside isolated from *Azadirachta indica* effectively induces apoptosis in leukemic cells by targeting G0/G1 populations 27
 Swadesh Sarkar, Amrita Pal, Anirban Chouni & Santanu Paul*
- Protective role of nanoemulsion containing roman chamomile oil against mitomycin C-induced toxicity in Ehrlich ascites carcinoma bearing mice 33
 Waad A Al-Otaibi, Mayson H Alkhatib* & Abdulwahab Noor Wali
- Evaluation of oxidative stress biomarkers and inflammation in pathogenesis of diabetes and diabetic nephropathy 45
 Kinnari N Mistry*, Brijesh K Dabhi & Bhoomi B Joshi
- Inhibition of oxidative stress, inflammation and apoptosis by *Terminalia arjuna* against acetaminophen-induced hepatotoxicity in Wistar albino rats 51
 Senthil Ganesh P Kannappan*, Gunapriya Raghunath, Senthilkumar Sivanesan, Rajagopalan Vijayaraghavan & Madhankumar Swaminathan
- Immunomodulatory effect of rutin, catechin, and hesperidin on macrophage function 58
 Aditya Ganeshpurkar & Ajay Saluja*
- Apoptotic efficiency of capecitabine and 5-fluorouracil on human cancer cells through TRPV1 channels 64
 İshak Suat Övey* & Yılmaz Güler
- Contribution of *ABCG2* gene polymorphisms (G34A and C376T) in the prognosis of colorectal cancer 73
 Abrar M Balkhair, Ayat Al-Ghafari*, Hanaa Tashkandi, Suzan Alturki, Huda Al Doghaither, Atlal Abusanad, Shadi Alkhayyat, Ann Yezerski & Ahmed Zeeneldin

Phosphorylation of α -syntrophin is responsible for its subcellular localization and interaction with dystrophin in muscle cells	79
Min Jeong Kim, Jae Yun Moon & Hye Sun Kim*	
Recovery of acerbic anaerobic digester for biogas production from pomegranate shells using organic loading approach	86
Kalpana Jain, Pradeep Suryawanshi & Ambalal B Chaudhari*	
Essential oil composition of clove and nutmeg from Andaman and Nicobar Islands, India	95
Ajit Arun Waman*	
Effect of fungal biocontrol agents on enhancement of drought stress tolerance in rice (<i>Oryza sativa</i> L.)	101
Bishnu Maya Bashyal*, Najam Waris Zaidi, Uma Shankar Singh & Rashmi Aggarwal	
Instructions to Authors	109
Workshop Report	112
Conference Report	113
Announcement	115
Plagiarism	116
*Author for correspondence	

Author Index

Abusanad A	73	Jain K	86	Singh US	101
Aggarwal R	101	Joshi BB	45	Sivanesan S	51
Al Doghaither H	73	Kannappan SGP	51	Srivastava N	15
Al-Ghafari A	73	Kim HS	79	Sudarshan M	8
Alkhatib MH	33	Kim MJ	79	Suryawanshi P	86
Alkhayyat S	73	Kumar SS	8	Swaminathan M	51
Al-Otaibi WA	33	Mishra V	15	Tashkandi H	73
Alturki S	73	Mistry KN	45		
Balkhair AM	73	Moon JY	79	Vijayaraghavan R	51
Bashyal BM	101	Övey İS	64	Wali AN	33
Chakraborty A	8	Pal A	27	Waman AA	95
Chaudhari AB	86	Paul S	27		
Chouni A	27	Raghunath G	51	Yezerki A	73
Dabhi BK	45	Saluja A	58	Zaidi NW	101
Ganeshpurkar A	58	Sarkar S	27	Zeeneldin A	73
Güler Y	64	Sharma S	15		

Keyword Index

ABC transporter	73	Flavonoids	58	Organic loading rate (OLR)	86
Albuminuria	45	G34A variant	73	Osteoporosis	8
Anaerobic digestion	86	Glutathione	51	Osteosarcoma	64
Anti-proliferative	27	Hallucinogenic	95	Oxidative DNA damage	15
Apoptosis	64	Hyperglycemia	15	Oxidative stress	33, 45
Ayurvedic	8, 51	Hypertension	45	Paracetamol	51
Biocontrol	101	Immunoprecipitants	79	Polymorphism	73
Breast and colorectal cancers	64	Insulin-resistance	45	Proinflammatory cytokine	51
C376T variant	73	Interleukin 1 β	58	Propionate	86
Capsaicin	64	Interleukin 6	58	Protein kinase C	79
Capsazepine	64	Intracellular localization	79	Protein-protein interaction	79
Cardiotoxicity	33	Lajalu	8	<i>Punica granatum</i>	86
Caspases	51	Leukemia	27	Spices	95
<i>Cheatomium globosum</i>	101	Little tree plant	8	<i>Syzygium aromaticum</i>	95
Chemotherapy	64	Malondialdehyde (MDA)	101	Thymic atrophy	33
<i>Cinnamomum zeylanicum</i>	15	Methane yield	86	<i>Trichoderma</i>	101
CYP2E1	51	Modulation	58	<i>Trigonella foenum-graecum</i>	15
Cytotoxicity	27	Myristicin	95	Tumor necrosis factor- α	58
DNA damage	51	Neem	27	Volatile solids	86
Drought	101	Nephrotoxicity	33	β -Caryophyllene	95
Eugenol	95	Nitric oxide	58	β -sitosterol-3-O- β -D-glucoside	27
Eugenyl acetate	95	Nutmeg	95		