

Indian Journal of Biochemistry & Biophysics

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

VOLUME 58

NUMBER 3

JUNE 2021

CODEN: IJBBQ 58 (3) 191-314 (2021)

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

CONTENTS

Papers

- Microscopic imaging of bronchoalveolar fluids of COVID-19 positive intubated patients reveals the different level of SARS-CoV-2 infection on oral squamous epithelial cells 196
Shikha Chaudhary, Preeti Rai, Kishore Sesham, Shailendra Kumar, Prabhakar Singh, Tapas Chandra Nag, Pratima Chaudhuri, Anjan Trikha & Subhash Chandra Yadav*
- Insights into the dynamics of cyclic diguanosine monophosphate I riboswitch using molecular dynamics simulation 208
Priyanka Kumari, Surya Pratap Singh* & Anup Som*
- In silico* analysis on macroalgae metabolites against skin cancer protein, phylogenetic and statistical analysis 219
S Mahesh, S Kavi Priya, RM Prasanth & P Anantharaman*
- Interaction of solifenacin succinate with bovine serum albumin by spectroscopic techniques and molecular modeling 229
Babu Giriya Gowda*
- The effect of bilirubin on Bad, Bak, and Bim pro-apoptotic factors: A molecular dynamic simulation study 236
Javad Saffari-Chaleshtori, Sayed Mohammad Shafiee* & Esfandiar Heidarian
- Dihydroxy berberine from *Tinospora cordifolia*: *In silico* evidences for the mechanism of anti-inflammatory action through dual inhibition of Lipoxygenase and Cyclooxygenase 244
Jacob Jenny & Prakash B Kumar*
- Altitudinal gradients influence the accumulation of pharmaceutically important phenolic compounds in the leaves of *Lobelia nicotianifolia* Roth. and regulates its antioxidant and anticancer property 253
Ganesh D Mankar, Akshay B Gulave, Kailas D Datkhile & Saurabha B Zimare*
- Investigation and analysis of the mental pressure of outpatient medical attendants and nurses during the COVID-19 pandemic in china 261
Xixiu Chen, Ruhuang Zhu, Yuai Jin, Jiefan Liu & Caixia Sun*

<i>In vitro</i> and <i>in silico</i> studies on the biochemistry and anti-cancer activity of phytochemicals from <i>Plumbago zeylanica</i>	272
D Roselin Jenifer*, BR Malathy & Ariya SS	
Mutational analysis of resveratrol-cleaving dioxygenase towards enhancement of vanillin synthesis	284
Pinki Dey & Pravin Kumar*	
Encapsulation of purple sweet potato's anthocyanin in CMC-PVA matrix for development of paper strips as a colorimetric biosensor	292
Anting Wulandari, Titi Candra Sunarti*, Farah Fahma, Erliza Noor & Toshiharu Enomae	
Production of medium chain fatty acid rich single cell oil using whole de-oiled mustard meal from soil fungus	303
Ruma Dutta, Manisha Maity & Jayati Bhowal*	
Instructions to Authors	312
*Author for correspondence	

Author Index

Anantharaman P	219	Jenifer DR	272	Rai P	196
Ariya SS	272	Jenny J	244	Saffari-Chaleshtor J	236
Bhowal J	303	Jin Y	261	Sesham K	196
Chaudhary S	196	Kumar P	284	Shafiee SM	236
Chaudhuri P	196	Kumar PB	244	Singh P	196
Chen X	261	Kumar S	196	Singh SP	208
Datkhile KD	253	Kumari P	208	Som A	208
Dey P	284	Liu J	261	Sun C	261
Dutta R	303	Mahesh S	219	Sunarti TC	292
Enomae T	292	Maity M	303	Trikha A	196
Fahma F	292	Malathy BR	272	Wulandari A	292
Gowda BG	229	Mankar GD	253	Yadav SC	196
Gulave AB	253	Nag TC	196	Zhu R	261
Heidarian E	236	Noor E	292	Zimare SB	253
		Prasanth RM	219		
		Priya SK	219		

Keyword Index

2019-nCoV	261	Homo-oligomerization	236	Principal component analysis	208
5-LOX	244	Immunofluorescence	196	Professional character	261
Anti-inflammatory	244	Inflammation	244	Protein conformation	236
Apoptosis	236	<i>Lobelia nicotianifolia</i> Roth.	253	Protein engineering	284
Behenic acid	303	Long chain fatty acids	303	Respiratory	261
Binding pocket	208	Low-calorie oil	303	Resveratrol-cleaving dioxxygenase	284
Bioactive compound	292	Matrix metalloproteins	272	SARS-CoV-2	261
Breast cancer	253	Meal supplementation	303	Scanning electron microscope (SEM)	196
BSA	229	Minitab	219	Secondary and tertiary structures	208
Color change	292	Molecular docking	244	Secondary metabolites	272
Column chromatography	272	Molecular modelling	229	Solifenacin succinate	229
Convenience testing	261	Nitrite	292	Stratum granulosum	196
Correlation	219	Nurses and Staff	261	Stratum intermedium	196
COVID-19 pandemic	196	Oleaginous fungi	303	Stratum spinosum	196
COX-2	244	Oral squamous cell carcinoma	272	Stress	261
Detection	292	Phenol, 2,4, bis (1,1-dimethyl ethyl)	272	Three-dimensional structure	236
Dynamic cross correlation	208	Phenolics	253	<i>Tinospora cordifolia</i>	244
Elite population	253	Phthalic acid	219	Trajectory analysis	208
Environmental factors	253	Phylogenetic	219	Transmission electron microscopic (TEM)	196
Fluorescence	229	<i>Plumbago zeylanica</i>	272	UV-visible	229
<i>Halimeda</i> spp	219			Vanillin	284
Hetero-oligomerization	236			Wild tobacco	253