

# Journal of Biological and Chemical Research



An International Journal of Life Sciences and Chemistry

ISSN 2319-3077 ISSN 0970-4973



SJIF Scientific Journal Impact Factor

[www.sasjournals.com](http://www.sasjournals.com) [www.jbcr.co.in](http://www.jbcr.co.in) [jbiolchemres@gmail.com](mailto:jbiolchemres@gmail.com)

Journal Impact Factor: **4.275**, Global Impact Factor: **0.876**,

InfoBase Impact Factor: **3.66**

Scientific Journal Impact Factor: **3.285**, IC Value: **82.43**

## Scope

Life Sciences (Botany and Zoology), Medical Sciences, Chemical Sciences, Agricultural Sciences, Biochemical Sciences, Environmental Sciences, Biotechnology, Molecular Biology and Tissue Culture

**Volume 40 (1), January to June, 2023**



**Prof. Abbas Ali Mahdi**

**Editor General**

**Prof. Y.K. Sharma**

**Executive Chief Editor**

**Dr. M.M. Abid Ali Khan**

**Chief Editor**

**Dy. Chief Editors**

**Dr. John K. Grandy**

(USA)

**Dr. Dilfuza Egamberdieva**

(Uzbekistan)

**Dr. T.S. Naqvi (India)**

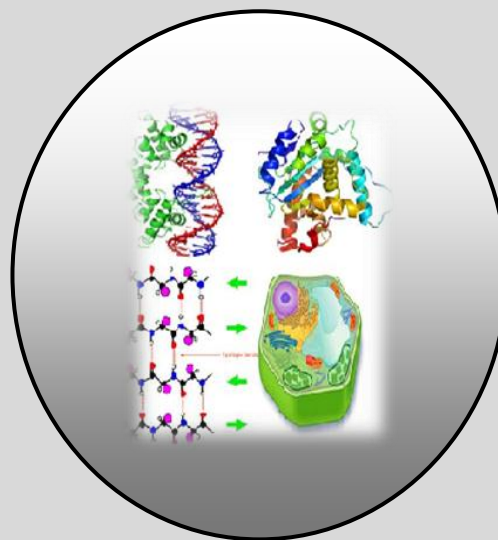
**Dr. Raaz Maheshwari (India)**

**Prof. Uma Singh (India)**

**Indexed, Abstracted and Cited**

Index Copernicus International (Europe), Research Bible (Japan), Scientific Journals Impact Factor Master List, Directory of Research Journals Indexing (DRJI), Indian Science. In, Database Electronic Journals Library (Germany), Open J-Gate, J Gate e-Journal Portal, Info Base Index, International Impact Factor Services (IIFS) (Singapore), Scientific Indexing Services (USA), International Institute of Organized Research (I2OR), World Cat, International Innovative Journal Impact Factor, Swedish Scientific Publishing, Eye Source and [citedfactor.org](http://citedfactor.org) Journals Indexing Directory, Cosmos Science Foundation South-East Asia, Indexing of International Research Journals and ImpactFactor.pl - Kompendium wiedzy o czasopismach naukowych, Philadelphia.

**Published by Society for Advancement of Sciences®**



# ***Journal of Biological and Chemical Research***

Published by Society for Advancement of Sciences®  
ISSN 2319-3077 (Online/Electronic) ISSN 0970-4973 (Print)  
Journal Impact Factor: 4.275 Global Impact Factor: 0.876  
Scientific Journal Impact Factor: 3.285  
InfoBase Impact Factor: 3.66 Index Copernicus Value: 82.43  
Volume 40 (1), January to June, 2023

---

## **List of Contents**

- |           |   |       |
|-----------|---|-------|
| S. No. 1- | Isolation, Biological Importance and Structure Elucidation of Milk Oligosaccharides by 2-D NMR  |       |
| By        | Manisha Shukla, Shraddha Rathor, Anil Mishra and Desh Deepak  | 1-18  |
| S. No. 2- | Isolation and Structure Elucidation of Derivatized Oligosaccharide of 2-deoxy Glucose from <i>Ichnocarpus frutescens</i> (Apocyanaceae) |       |
| By        | P.B. Nepune, Mayank Sharma, Manisha Shukla and Desh Deepak  | 19-30 |
| S. No. 3- | Plant Mediated Synthesis of Silver Nanoparticles from <i>Loeseneriella arnottiana</i> Wight and its Antimicrobial Activity              |       |
| By        | V. Nayana and P. Rama Bhat  | 31-38 |
| S. No. 4- | Structural Characterization of Novel Milk Hexasaccharide 'Omedose' from Camel Milk  |       |
| By        | Manisha Shukla, Mayank Sharma, Rinku Singh and Desh Deepak  | 39-52 |
| S. No. 5- | Soil Microbial Indicators within Rotations and Tillage Systems in Grapes Cultivation  |       |
| By        | Hamid Kheyrodin   | 53-59 |
| S. No. 6- | Control of Water Pollution in Makreda Pond by Bioremediation  |       |
| By        | Sabiha Khan and Asha Rani Kachhawaha  | 60-79 |

S. No. 7-	An Analytical Investigation on the Relationship between Stress and Safrawi and Balghami Mizaj young Females	
By	Tuba Zafar, Saba Zaidi and Farooq A. Dar	80-84
S. No. 8-	3D Structure Assignment of a Novel Hexasaccharide 'Aliose' from Gaddi Sheep Milk, by 2D-NMR, Mass Spectrometry and its DFT Studies	
By	Lubna Jamal, Manisha Shukla, Anil Mishra and Desh Deepak	85-107
S. No. 9-	Stereoscopic Structural Assignment and DFT Studies of Novel Tetrasaccharide 'Taliase' from Gaddi Sheep Milk with rare 1→2 Glycosidic Linkage at Reducing end by 2D NMR and Mass Spectrometry	
By	Lubna Jamal, Shraddha Rathor, Anil Mishra and Desh Deepak	108-129
S. No. 10-	Mass Fregmetation and Computational Studies of Camel Milk Tetrasaccharide; 'Romeose'	
By	Kriti Chaurasia, Manisha Shukla and Desh Deepak	130-143