

**Selected abstracts of the 5th Regional Science and Technology Congress - 2022 to be held on 11th and 12th January 2023 at University of Gour Banga, Malda, W.B.**

| <b>Presenting Author's name</b> | <b>Address</b>   | <b>Title of the Abstract</b>  |
|---------------------------------|--|---|
| Ripan Chandra Das               | Laboratory of Microbiology and Experimental Medicine, Department of Zoology, University of Gour Banga, Malda, India; Email: rcdpdm@gmail.com             | In vitro antibacterial activity of plumbagin isolated from <i>Plumbago zeylanica</i> and in silico analysis of its inhibitory property against target proteins from pathogenic bacteria |
| Tarique Nazira Banu             | Laboratory of Microbiology and Experimental Medicine, Department of Zoology, University of Gour Banga, Malda, India; Email: tarique.nazira24@gmail.com   | Detection of $\beta$ - lactamases among ESKAPE bacteria and antibacterial activity of <i>Punica granatum</i> fruit peel extracts against multi drug resistant pathogenic bacteria       |
| SURAJIT ROY                     | Laboratory of Microbiology and Experimental Medicine, Department of Zoology, University of Gour Banga, Malda, India; Email: surajitmalda@gmail.com       | Natural honey mediated green synthesis of silver nanoparticles (SNPs) with broad antibacterial spectrum in the management of multidrug resistant pathogenic bacteria                    |
| DEBASHIS HALDER                 | Laboratory of Microbiology and Experimental Medicine, Department of Zoology, University of Gour Banga, Malda, India; Email: debashishalder1991@gmail.com | 16S rRNA gene sequencing of bacteriocinogenic probiotic lactobacilli of diverse origin with broad antibacterial spectrum  |
| MAYUKH BHATTACHARYA             | PG Department of Zoology, Darjeeling Government College, Lebong kart Road, Darjeeling, India; Email: mayukh767@gmail.com                                 | Perspectives to the global emergence of scrub typhus: A systematic review   |
| Purabi Roy                      | Department of Computer Science, University of Gour Banga; Email: purabiroy7340@gmail.com   | Ovarian Follicle Segmentation from Ultrasound Images Using Different U-NET Models   |
| GOLAK MAJUMDAR                  | Laboratory of Microbiology and Experimental Medicine, Department of Zoology, University of Gour Banga, Malda, India; Email: golakmajumdar10@gmail.com    | The mutational cascades and epidemiological signatures of SARSCoV-2 variants during pre- and postCOVID-19 second wave in India  |
| SWAPAN KUMAR MAJUMDER           | Sarat Palli, Dhubulia, Nadia; Email: swapanodgi@gmail.com  | The Digital Frequency Divider (DFD)   |