

#### **REVIEW ARTICLES**

1289-1297	Plasmodium knowlesi: New threat to Humans Adil Raza, Shariq Wadood Khan, Sana Aqeel and Haris Manzoor Khan	
1298-1319	Lead: Natural Occurrence, Toxicity to Organisms and Bioremediation by Lead-degrading Bacteria: A Comprehensive Review Mada F. Ashkan	
1320-1340	A Critical Review on the Potency of Phytoconstituents in the Management of COVID-19 Kannan Raman, Kalirajan Rajagopal, Gomathi Swaminathan, Srikanth Jupudi, Kuldeep Dhama, Rashu Barua, Talha Bin Emran, Hamid Osman and Mayeen Uddin Khandaker	
1341-1355	Rhizosphere Microorganisms with Different Strategies and Mechanisms to Enhance Plant Growth in the Occurrence of Different Environmental Stress Factors Mona Othman I. Albureikan	
1356-1373	Harnessing the Power of Bio Adsorbents: A Review on Sustainable Approach to Eliminate Antibiotic Residues in Wastewater for Better Public Health Chayan Sardar, Sukanta Bhadra, Hare Krishna Jana and Sandhimita Mondal	
1374-1390	Bioprospecting and Exploration of the Natural Antifouling Approaches against Marine Foulers Rubavathi Subbaiyan, Ayyappadasan Ganesan and Venkatraman Varadharajan	
1391-1399	Allergic Contact Dermatitis Due to Chemical Agents and Microbial Contamination in Cosmetic Products: A Review Gyan Vandana Yadav, Sandhya Khunger and Kunal	
1400-1409	<b>Discernment of </b> <i>Acinetobacter</i> <b> Species in World Scenario</b> Nikita Meshram and Supriya Meshram	
1410-1421	A Guide Towards the Phenotypic Detection of Extended-spectrum $\beta$ -lactamases Production in <i>Enterobacteriaceae</i> : Alone or in Presence of Other Interfering Enzymes Payel Das, Dipankar Mahapatra and Sahana Sen Mazumder	
CASE REPORT		

#### **CASE REPORT**

1422-1428 Chryseobacterium Bloodstream Infection in a Case of Non-Hodgkins Lymphoma:
An Emerging Pathogen Complicating Clinical Management in Cancer Patients
Ashima Jain Vidyarthi, Salman Khan, Babita Kataria, Mukesh Nandal,
Vishal Phogat, Arghya Das and Rama Chaudhry

#### **RESEARCH ARTICLES**

1429-1434	Detection of Methicillin-Resistant Staphylococcus aureus (MRSA) using Modified Conventional Cefoxitin-based Media as an Alternative Screening Sri Amelia, Muhammad Fakhrur Rozi and Ridwan Balatif
1435-1443	Clinical Profile of Patients and Antibiogram of <i>Acinetobacter baumannii</i> Isolates in a Tertiary Care Hospital, Central India Prashanth K. Guddeti, Harshada Shah, Ramanath Karicheri and Luxmi Singh
1444-1457	Effect from Combinations of <i>Yucca schidigera</i> extract with <i>Bacillus</i> Strains on the Growth of White Leg Shrimp ( <i>Penaeus vannamei</i> ), Density of Vibrio sp., and on the Ammonia and Nitrite Content of Culture Water To Dinh Phuc, Nguyen Thuy Huong, Pham Thi Thu Dan, Bui Thi Hong Linh and Truong Van Mui



1458-1470	Enhancement of Monacolin K Production by Intergeneric Hybridization between
	Monascus purpureus (Arg-) and Monascus ruber (Thi-, Met-) Auxotrophs Anindita Sinha and Keka Sarkar
1471-1476	Antibiotic-Associated <i>Clostridium difficile</i> Diarrhoea in Tertiary Care Hospital – A Study from Western India Sunita Mangesh Bhatawadekar, Lata Satish Yadav, Aishwarya Babu and Meera Sujeet Modak
1477-1485	Assessment of Wastewater Contaminants Caused by Textile Industries K.B. Dhameliya and Chetan Ambasana
1486-1494	Bacterial Species Associate on the Body Surface of <i>Musca domestica</i> L from Various Habitats based on 16S rRNA Sequencing Dina Victoria Rombot, Mokosuli Yermia Semuel and Maria Kanan
1495-1508	Effect of Different pHs and Temperatures on Stability and Mode of Action of Musa paradisiaca L. Flower Extract against Foodborne Pathogens and Food Spoilage Microorganisms Khadija Ahmed Mousa, Khairul Naim Md. Padzil, Yaya Rukayadi, Nik Iskandar Putra Shamsudin and Faridah Abas
1509-1515	Role of Oxacillin Susceptibility Testing Strategy in Changing Scenario of <i>mecA</i> Positive Staphylococcus aureus Isolates (OS-MRSA) Detection  Eeshita Dhar, A. Tejashree, M.V.S. Krishna Karthik and Pushkal Sinduvadi Ramesh
1516-1531	Pluronic F-127 Hydrogel for Delivering Antimicrobial Agents: A Bibliometric Analysis using Scopus Database Khan Sharun, S. Amitha Banu, Sonu S. Nair, Rohit Kumar, A.M. Pawde, Kuldeep Dhama and Amar Pal
1532-1553	Bioprospecting of Marine Fungi from Coastal Karnataka Region as Potential Source of Economically Important Enzyme L-Glutaminase and their Comparative Genomic Study Sumangala Rao, Monika Sadananda, T.P.M. Pakkala and K.B. Shenoy
1554-1559	Diagnostic Agreement of SARS-CoV-2 Lateral Flow Antigen Assay with the Cycle Threshold Values of RT-PCR
	Neetha S. Murthy, M.N. Sumana, A. Tejashree, Vidyavathi B. Chitharagi, Rashmi P. Mahale, Murubagal Raghavendra Rao, G.S. Sowmya, Ranjitha Shankare Gowda, R. Deepashree and S.R. Sujatha
1560-1577	Molecular Characterization and Antibacterial Activities of <i>Photorhabdus</i> and <i>Xenorhabdus</i> from Mizoram, North-East India Mary Lalramchuani, Lalramliana, Hrang Chal Lalramnghaki, Vanramliana and Esther Lalhmingliani
1578-1590	Isolation, Characterization, and Investigation on Potential Multi-trait Plant Growth Promoting Rhizobacteria from Wild Banana ( <i>Musa itinerans</i> ) Rhizospheric Soil Mum Tatung and Chitta Ranjan Deb
1591-1604	Trends in Antimicrobial Resistance in a Tertiary Care Hospital of Assam, India Partha Pratim Das, Reema Nath, Gargi Choudhury, Arunjyoti Sarmah and Prapti Bora
1605-1611	Environmentally Responsible Bioengineering for Spore Surface Expression of Helicobacter pylori Antigen Thi Kim Cuc Nguyen, Thi Lan Pham, Thi Chinh Nguyen, Thu Thuy Pham and Van Duy Nguyen
1612-1619	Molecular Basis of Host-Virus Interactions to Explain Relative Transmission and Severity Caused by Omicron and Delta variants of SARS-CoV-2 Vinod Joshi, B.M. Shareef, Bennet Angel, Annette Angel, Ramesh Joshi, Ambreen Shafaat Khan, Poorna Khaneja, Nuzhat Maqbool Peer, Bhawna Sharma, Neha Singh, Satinder Pal Singh, Shilpa Barthwal, Komal Tomar and Kiran Yadav



1620-1627	Isolation, Identification and Antibiotic Resistance Profile of Public Health Threat Enteric Bacteria from Milk and Dairy Products Retail in Abakaliki, South-East, Nigeria Okoro Samuel Chukwu, Chukwuma Victor Uzoh, Isaiah Yusuf, K.E. Aroh, O.J. Owolabi, A.C. Kalu, M.M. Egwu-Ikechukwu, C.C. Nnabugwu, O.C. Azuama, D.C. Ilang, B. Ugwu, D.O. Okata-Nwali and C.S. Ugwuocha
1628-1640	Bacteriological Profile and Antibiotic Resistance Patterns of Pus/Wound Samples in Humans with Infected Wounds in North Central Algeria Asma Aiza, Rachid Kaidi, Moussa Ahmed and Baghdad Khiati
1641-1649	New Record: Molecular Depiction of Rhamnolipids ( <i>rhlA</i> ) Gene in Locally Isolated Strains of <i>Pseudomonas aeruginosa</i> Fadhil N. Al-Kanany and Najim Mohsen
1650-1658	Evaluation of an In-house Indirect ELISA for Differential Detection of IgM and IgG anti-Brucella Antibodies in Human Brucellosis Sudipta Patra, Muneera M. Sahib, G. Shanmugam, Somy Skariah, Samer Shamshad, Nagalingam Mohandoss, Bibek R. Shome and Rajeswari Shome
1659-1668	Microbial Etiology and Resistance Patterns of Urinary Tract Infection at a Tertiary Care Centre – A Hospital based Study Shoaib Khan, Peer Maroof and Umara Amin
1669-1678	Concentration Dependent Effect of Azadirachta indica (Neem) Seed Oil and Neem Bark extract on Planktonic and Established Biofilm Growth of <i>Pseudomonas aeruginosa</i> and <i>Staphylococcus aureus</i> Ravish Katiyar, Ekta Khare and Shilpa Deshpande Kaistha
1679-1690	Genomic Determinants and Antimicrobial Resistance Pattern of Clinical Isolates of Extended Spectrum Beta Lactamase (ESBL) Producing Escherichia coli Hamid Ahmad Shah, Arshi Syed, Mohd Altaf Bhat, Dalip K. Kakru, Shaheen Farooq, Sabia Qureshi, Azhar Shafi, Burhan Nabi and Anil Taku
1691-1699	Role of <i>Ureaplasma urealyticum</i> and <i>Ureaplasma parvum</i> as Risk Factors for Cervical Dysplasia with Human Papillomavirus Mardhia Mardhia, Andi Yasmon, Junita Indarti and Lisnawati Rachmadi
1700-1707	A Retrospective Seroprevalence Study of Dengue, Chikungunya and Co-Infection virus: A Hospital Based Study from Theni, Tamil Nadu R. Gopinath, A. Dhanasezhiyan, S.Krishnapriya, S. Mathan Prasanth and G. Sucila Thangam
1708-1714	Using of Integrons as Biomarker to Assess Dissemination and Diversity of Antimicrobial Resistance Genes in Farm Animal Manure Yathrib Al-Ubaidy and Amjed Alsultan
1715-1721	Comparative Analysis of Gram Stain, Culture and Bacterial Antigen Detection in Cerebrospinal Fluid Samples for Laboratory Diagnosis of Acute Bacterial Meningitis in Pediatric Population in A Tertiary Care Hospital V. Dillirani, J. Jayachitra, K. Chandrasekaran and T. Monisha
1722-1736	Prevalence of Hepatitis C Viral Infection among Diabetes Mellitus Patients in Qassim Region, Saudi Arabia Muneerah Hamad Aldubaie, Prarthana M. Suryavamshi, Uma M. Irfan, Hamad A. Al-Hamed, Turki Abdullah Almogbel, Ahmad Almatroudi, Faris Alrumaihi and Khaled Allemailem
1737-1747	Biodesulfurizing Microbes in the Petroleum Refinery Areas of Saudi Arabia Abrar Ahmad, Othman A. Baothman, Muhammad Shahid Nadeem and Varish Ahmad



1748-1763	Exploring the Potential of <i>Bacillus velezensis</i> , an Endophytic Bacteria Isolated from <i>Alternanthera philoxeroides</i> for Plant Growth Promotion and Bioremediation Properties Indhu Philip, Suma Sarojini, Soma Biswas and Saranya Jayaram
1764-1775	Antimicrobial effect of Tetraspanin CD9 Peptides on <i>Pseudomonas aeruginosa</i> Khairiyah Murad, Sharaniza Ab-Rahim and Hassanain Al-Talib
1776-1782	Comparison of Efficacy and Safety between Super-bioavailable Itraconazole and Conventional Itraconazole in the Treatment of Tinea Infection of Glabrous Skin – A Randomised Observer-blinded Pilot Study Liza Mohapatra, Nibedita Dixit, Ishan Agrawal, Bikash Ranjan Kar and Bhabani S.T.P. Singh
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1783-1790	The Efficacy and Safety of Heterologous Immunization with Pfizer-BioNTech (Pfizer) to Individuals Who Have Completed A Primary Vaccination Schedule with Sinopharm (BBIBP-CorV)
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1791-1799	Antibiofilm Activity of Tapak Kuda <i>Ipomoea pes-caprae</i> against <i>Pseudomonas aeruginosa</i> ATCC 27853 and Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA) ATCC 43300: <i>In-Vitro</i> and <i>In-Silico</i> Evaluation
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1800-1813	Investigation of the Impact of Mycogenic Titanium and Selenium Nanoparticles on Fusarium Wilt Infection of Tomato Plant Eman A.M. Helmy, Rania A. Salah, Mona M. El-Shazly, Abdulmohsen Hussen Alqhtani,
	Anthony Pokoo-Aikins and Mohammed Yosri
1814-1823	A Cross-sectional Study of Clinical Characteristics and Outcomes among Adults with Laboratory-confirmed SARS-CoV-2 Infection with Omicron Variant Nawfal R. Hussein, Majeed T. Ahmed, Brisik H. Rashad, Majeed H. Mustafa, Narin A. Rasheed, Ibrahim A. Naqid, Zana Sidiq M. Saleem, Nashwan M.R. Ibrahim and Dildar H. Musa
1824-1835	Polish Adults' Knowledge, Perceptions and Attitudes Concerning Legionellosis Naeem Shalan, Zuzanna Laszuk, Irena Kosinska, Krzysztof Kanecki and Mohd. Alaraj
1836-1845	Multidrug-Resistant <i>Staphylococcus capitis</i> : An Emerging Challenge in Clinical Settings Found in Adult Patients in Saudi Arabia Jehad A. Aldali, Shar A. Alahmari, Abeer O. AlMezyed, Nawal S.D. Alshammari and Emadeldin M. Elsokkary
1846-1853	Comparative and Prospective Study on the Efficacy of RT-PCR and Rapid Antigen Test in Symptomatic COVID-19 Patients at Tertiary Care Hospital Ramya Sree Allavarapu, K.Sethumadhavan, Purimitla Usharani and B.V.V.V. Tejaswani
1854-1862	In vitro Comparative Evaluation of Polylactic Acid/Polyglycolic Acid Copolymer and Expanded Polytetrafluoroethylene Based Guided Tissue Regeneration Membrane for Bacterial Colonisation Shubham Sareen, Afshan Bey, Afaf Zia and Fatima Khan
1863-1870	A Retrospective Study to Determine the Genotypic Distribution of Hepatitis-C from a Tertiary Care Hospital in South India B. Appalaraju and M. Mohamadiya Rizwana
1871-1879	Bacterial Etiologies and Antibiotic Sensitivities in Acute and Chronic Dacryocystitis: A Western U.P. Perspective Sara Rizvi, Neelima Mehrotra, Amrita Bajpai Mishra, Neelam Gupta, Sakshi Singh and Ria Batra



1880-1886	Characterization and Susceptibility Pattern of <i>Candida</i> Species from Various Clinical Samples in a Rural Tertiary Care Hospital Aditi Pradeep Warghade, Gargi Mudey, Supriya Meshram, Swati Kombe and Dipika Shaw
1887-1892	A Comprehensive Study of Phenotypic and Genotypic Techniques to Detect Metallo-β-lactamases in Carbapenem-resistant <i>Escherichia coli</i> ( <i>E. coli</i> ) and <i>Klebsiella pneumoniae</i> (KP) Strains Derived through Numerous Clinical Specimens in Advanced Health care Facilities Manju, Amandeep Kaur, Ashwini Manhas, Kawal Preet Kaur, Gundeep Kaur, Ram Gopal Saini, Priyanka and Manju Singh
1893-1906	Drug Target Identification for <i>Listeria monocytogenes</i> by Subtractive Genomics Approach Niharika Chandra, Tabish Qidwai and Sachidanand Singh
1907-1915	Antibacterial Potential of Oyster Mushroom ( <i>Pleurotus ostreatus</i> (Jacq. Ex Fr.) P. Kumm.) Extract against Pathogenic Bacteria Waraporn Sutthisa and Supawadee Anujakkawan
1916-1925	Incidence of Potential Pathogenic Bacteria at Restaurants in Al-Mandaq City, Saudi Arabia: First Study Mohammad Melebari
1926-1932	Hepatitis C Virus Genotyping from anti-HCV Negative Sera in Blood Donors Supiana Dian Nurtjahyani and Retno Handajani
1933-1943	Seroprevalence and Identification of <i>Brucella melitensis</i> Based on a <i>Glycosyltransferase</i> Gene among Ruminants in Rafha, Saudi Arabia Muaz Magzob Abdellatif, Yahia Hassan Ali and Hussam Hassan Arafat