

REVIEW ARTICLES

1391-1412 Diagnosis of Ventilator-Associated Pneumonia – A Systematic Review and Meta-analysis of Laboratory Techniques

Harendra K. Thakur, Bansidhar Tarai, Aradhana Bhargava, Sonu K. Agarwal, Pankaj Soni, Sudhakar Kancharla, Prachetha Kolli, Gowtham Mandadapu and Manoj Kumar Jena

1413-1423 Exploration of the Human Microbiome's Role in Health and Disease through the Lens of Genetics

Awadh Alanazi, Sonia Younas, Hasan Ejaz, Bi Bi Zainab Mazhari, Khalid Abosalif, Abualgasim Elgaili Abdalla, Muharib Alruwaili, Muhammad Atif and Kashaf Junaid

1424-1437 COVID-19 Vaccines and Adverse Effects of SARS-CoV-2 in Recovered Patients of COVID-19: An In-depth Review

B.N. Raghavendra, Sudhakar Kancharla, Prachetha Kolli, Gowtham Mandadapu and Manoj Kumar Jena

1438-1453 Dengue Seroprevalence in Different Geographic Zones of India: A Systematic Review and Meta-Analysis of Cross-Sectional Studies

Sailendra Panda, Gayatri Patra, Birendra Kumar Bindhani and Bhagirathi Dwibedi

1454-1470 Enhancing Abiotic Stress Tolerance in Fruit Trees Using Microbial Biostimulants

Hibah M. Albasri, Asmaa M.M. Mawad and Eman S.E. Aldaby

1471-1488 Eco-friendly Management of Plant Pathogens through Secondary Metabolites Released by Fluorescent *Pseudomonads*

Shivam Maurya, Rainy Thakur, R. Vighnesh, Sreya Suresh, Akshit Dang, Deepak Raj and Seweta Srivastava

1489-1501 Plausible Avenues and Applications of Bioformulations from Symbiotic Culture of

Bacteria and Yeast

T. Jayalakshmi, G. Gayathry, K. Kumutha, K.G. Sabarinathan, R. Amutha and P. Veeramani

MINI REVIEW

1502-1514 A Comprehensive Review of Nipah Virus: From Epidemics to Approaches of Management

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SHORT COMMUNICATION

1515-1523 Isolation of Cellulolytic *Bacillus* sp. from the Viviparous Seedling Hypocotyls of Red Mangrove – *Rhizophora mucronata* Lam.

K. Nidhina, R.M. Ayshommabi and Tomson Mani

RESEARCH ARTICLES

1524-1539 Understanding the Pathogenesis of Endothelial Injury Induced by Bluetongue Virus in Experimentally Infected Sheep

Deepti Singh, M. Saminathan, M. Dinesh, S. Pavulraj, A.A.P. Milton, K. Dhama, D. Ranjith, G.K. Sharma, Ayushi Singh and K.P. Singh

1540-1545 High Burden of Carbapenem-Resistant Organisms Screened by Xpert Carba-R Assay Versus Culture from Intensive Care Patients in Indonesia

Mohammad Agung Marzah, Fikri Sasongko Widyatama, Rosantia Sarassari, Wahyu Setyarini, Alicia Margaretta Widya, Siti Rochmanah Oktaviani Sulikah, Bambang Pujo Semedi, Prananda Surya Airlangga, Kuntaman Kuntaman, Toshiro Shirakawa and Eko Budi Koendhori



1546-1557	Therapeutic Efficacy of Baicalein Green Biomolecule in Methicillin-Resistant Staphylococcus aureus Murine Mastitis Model Srishti Soni, Reena Mukherjee, Ujjwal Kumar De, Deeksha Bharti, Mamta Singh, Babul Rudra Paul, Varun Kumar Sarkar, Khan Sharun, N. Barkathullah and M. Saminathan
1558-1565	Association of Robust Anti-SARS-CoV-2 Trajectories among Communities with and without COVID-19 Infection Balamurali Venkatesan, Leela Kakithakara Vajravelu, Sujith Ravi, Jayaprakash Thulukanam and Om Lokesh Muthamilan
1566-1579	Isolation, Identification, and Characteristics of Local Yeast Isolates with Proteolytic Capability Obtained from Traditional Processed Indonesian Duck Eggs Andry Pratama, Jajang Gumilar, Wendry S. Putranto and Yaya Rukayadi
1580-1592	Identification and Antimicrobial Susceptibility Patterns of <i>Neisseria gonorrhoeae</i> , <i>Ureaplasma</i> spp. and <i>Mycoplasma</i> spp. Isolated from Tribal Women Juhi, Vaishali Halwai, Rambir Singh, Sona Singh, Neha Jain, Sosan Xess and Poonam Sharma
1593-1600	Microbial Induced Biotechnological Processes for Biofuel Production from Waste Organics Conversion Sruthy MS Pillai, Rajesh Kumar Srivastava and Sujeet Pratap Singh
1601-1609	Isolation and Identification of Isolate, S1 with High Biotransformation Potential of Ferulic Acid to Vanillin Nagaraju Bathini, Sai Krishna Esampally, Premsagar Korripally, Vishnuvardhan Reddy Sultanpuram and Thirumala Mothe
1610-1619	Isolation of $lpha$ -Amylase Producing Microorganisms from Soil of Kachchh, Gujarat Mayur Morbia, Archana Pandey, Priti Mahla and Surendra Gohil
1620-1626	Survival Strategy, Metabolic Potential and Taxonomic Reframe of <i>Kocuria polaris</i> Syed Raziuddin Quadri
1627-1631	Molecular Approach for Screening and Identification of Food Containments using Colony PCR Aarya Harshal Suryawanshi, Sai Sree Thanay Allam, Satwik Korukonda, Satyashila Kamble, Bhavithavya Kumar Machavarapu, Nagavenkat Sriperambuduru and Praveen Kumar Vemuri
1632-1647	Enhancement of Plant Growth with Plant-Based Compost and the Heterotrophic <i>Azotobacter</i> and <i>Streptomyces</i> Inoculation under Greenhouse Conditions Mona Othman I. Albureikan
1648-1660	Novel Phytosterol with Antimicrobial Potential of <i>Digera muricata</i> Mart. from Chittorgarh Region, India Nalini Tomer, Anil Kumar Sharma, Mohammad Irfan Ali, Manas Mathur, Hariom Nagar, Ramgopal Dhakar, Amit Sen, Zoya Zaidi and Sarmad Moin
1661-1673	Production of Bioactive Compounds from Vegetable Waste using Microbial Consortia Anita M. Chandak, Sujata A. Mankar and Rupali Balpande
1674-1683	In silico Molecular Docking of Cyclic Peptides against TEM-1 Beta-Lactamases for Effective Antimicrobial Drug Development A. Sowmiya, Santhoshkumar Jayakodi, K.A. Selvam and K. Sangeetha
1684-1699	The Ability of the Indigenous Bacteria <i>Chromobacterium haemolyticum</i> strain W15 to Degrade Chromium (Cr) and Lead (Pb) in Liquid Coal Waste Diva Chantya Nidyananda and Slamet Isworo



1700-1707	Prevalence and Antimicrobial Susceptibility Pattern of MRSA amongst Patients from an Indian Tertiary Care Hospital: An Eye Opener Yasha Mukim, K. Sonia, Charu Jain, Nikita Birhman and Iqbal R. Kaur
1708-1720	Isolation and Molecular Characterization of Pigment Producing Bacteria from Soil of Different Locality of Assam Moitrayee Devi, Deep Prakash Parasar, Manash Pratim Sarma, Manash Pratim Kashyap
	and Suresh Deka
1721-1728	Screening of Intensive Care Unit Patients for the Presence of Carbapenem-resistant Enterobacterales (CRE) on Admission as a Measure of Infection Control S. Shanmugapriya, B. Appalaraju, Mona Abdul Karim and M. Mohamadiya Rizwana
1729-1740	Burden of Multidrug-Resistant Gram-Negative Bacterial Infections in a Tertiary Care Hospital V. Kavya, Rashmi P. Mahale, R. Deepashree and A. Nidha Jamal
1741-1751	Increasing Resistance of Nosocomial and Community-Acquired Escherichia coli in Clinical Samples from Hospitals and Clinics in Sana'a City Talal Alharazi, Mohammed A. Alhoot, Tawfique K. Alzubiery, Abdu Aldarhami, Abdulrahman S Bazaid, Husam Qanash, Jerold C. Alcantara, Hattan S. Gattan and Hafez Alsumairy
1752-1767	Isolation and Molecular Characterization of Therapeutic Probiotic <i>Lactobacillus</i> from Different Sources in Ernakulam-Kerala K.P. Jumaila, A. Vijaya Chitra and Vajid Nettoor Veettil
1768-1775	Serodiagnosis of Secondary Dengue Infection in a Tertiary Care Hospital, Mysuru Manasa P. Kumari, B. Amrutha Kumari and M. Tabasum Begum
1776-1785	Transcriptomic Insights into the Physiological Aspects of the Saprotrophic Fungus Penicillium citrinum During the Spoilage of Tobacco Leaves Bo-Ka Xiang, Qi Li, Yong-Gang Zhang and Sheng-Hua Ying
1786-1798	Association of a <i>NLRP3</i> rs10754558 Polymorphism with the Development of Chronic <i>Helicobacter pylori</i> Infection in South Indian Tamils Abirami Rajendran, Vignesh Nagarajan, Premkumar Karunakaran, Shameli Jeevamani and Megala Jayaraman
1799-1806	Activity and Identification of Culturable Methanotrophs from Mangrove Sediments, South East Coast of India V. Miriam Sheba, Muralibabu Ashwin Srinivas, Peketi Aditya, C. Prasana Kumar and T. Nargis Begum
1807-1823	Comparative Evaluation of Different Antivirals against Lumpy Skin Disease in Cattle Rather Izhar UI Haq, Amatul Muhee, Oveas Raffiq Parray, Junaid Ahmad Bhat, Majid Shafi Kawoosa, Suhail Nabi Magray, Sabia Qureshi, Riyaz Ahmed Bhat, Raja Aijaz Ahmad, Ubaid Farooq, Muzamil Abdullah and Mohd. Iqbal Yatoo
1824-1837	Synthesis of UiO-67 Metal-organic Frameworks (MOFs) and their Application as Antibacterial and Anticancer Materials Sitah Almotiry, Mehal AlQriqri, Basma Alhogbi, Salah E.M. Abo-Aba, Mariusz Jaremko and Mohamed Abdel Salam
1838-1847	Green Synthesis of CuO and ZnO Nanoparticles using <i>Pterocarpus santalinus</i> Leaf Extract and their Role in Inhibiting the Growth of <i>Aspergillus niger</i> Isolated from Infected Onions Shaik Babulla and A. Muni Kumari



1848-1859	Comparative Study on Quorum Modulatory Effect of Selected Medicinal Plants on <i>Chromobacterium violaceum</i> ATCC 12472 (MTCC 2656) Nadasha Koonath Vijayan, Habibu Tanimu and Bindhu Omana Sukumaran
1860-1865	Tracking Vancomycin MIC Creep: A Five Year Analysis Deepa Devhare, Vrushali Thakar, Mahadevan Kumar, Sulochana Jadhavar, Meera Modak and Sunita Bhatawadekar
1866-1882	Arbuscular Mycorrhizal Fungi and Soil Enzyme Activities in Different Fonio Millet (Digitaria exilis Stapf.) Agroecosystems in Senegal Fatou Ndoye, Ibou Diop, Mame Codou Gueye, Oumar Sadio, Mame Oureye Sy, Diegane Diouf, Aboubacry Kane and Abdala Gamby Diedhiou
1883-1893	Characterization and Identification of Potential Lactic Acid Bacteria as Biological Control Agent against <i>Ralstonia syzygii</i> subsp. <i>celebesensis</i> of the Banana Blood Disease Michell Kah Ven Sam, Roslina Jawan and Khim Phin Chong
1894-1902	Clinical and Microbiological Study of Intra-Abdominal Infections in a Tertiary Care Hospital Barnini Banerjee, Mansi Sarawgi and Muralidhar Varma
1903-1919	Isolation and Characterisation of Pink Pigmented Facultative Methylotrophs (PPFM) from Malaysian <i>Ulam</i> Leaves Nur Isti'anah Ramli, Faridah Abas, Intan Safinar Ismail, Yaya Rukayadi and Nuramiratul Hafizah Jurime
1920-1930	Effect of Organic Granules on the Productivity, Quality, and Nutrient Uptake Level of Tomato and the Fertility and Microbial Population of the Soil S. Jawahar and D. Elayaraja
1931-1948	Medium Formulation and Optimisation of Fermentation Condition Enhancing γ -aminobutyric Acid (GABA) Biosynthesis by <i>Lactiplantibacillus plantarum</i> B7 Sangkaran Pannerchelvan, Fadzlie Wong Faizal Wong, Helmi Wasoh, Mohd Shamzi Mohamed, Rosfarizan Mohamad and Murni Halim
1949-1958	Evaluation of Epidemiological Pattern of <i>Candida</i> Species Associated with Candidemia from A Tertiary Care Facility in South India Hemamalini Mohanraj, V.M. Vinodhini and Leela Kakithakara Vajravelu
1959-1968	In vitro Evaluation of the Antimicrobial Effect of Common UAE Natural Herbals on Different Gram-positive and Gram-negative Bacteria Ahmed L. Osman, Praveen Kumar Kandakurti, Alaa A. Mahmoud, Fadak Y. Ahmed, Ibtisam J. Azzam, Shuroq A. Yahya and Devapriya Finney Shadroch
1969-1983	Preparing and Assessment of Biocidal La Nano-complex Treated Filter Capacity against Isolated Microbes from Air Conditioning Systems in COVID-19 Rehabilitation Rooms Shaima M. N. Moustafa, Tarak A. Yousef and Rania H. Taha
1984-1995	Culture-Independent Characterization of Citrus Rhizospheric Bacterial and Fungal Microbiota from Piura, Peru Manuel Saucedo-Bazalar, Estefanía Nouchi-Moromizato, Carlos Condemarín-Montealegre and Eric Mialhe
1996-2004	Antibiotic Usage Pattern against COVID-19 in Patients of a Tertiary Care Hospital Geetanjali Hiremath, Rajesh Vishnu Naik, Harsha Hanji and Shrikant Hiremath

2005-2013	Microbiological Profile of Phytoestrogen Rich Supplement and Its Impact on Gut-microbiome Composition in <i>Drosophila melanogaster</i> K. Gayathri, R. Nalini, Sneha Sriram, Indhuja Jayaraj, V. Deepa Parvathi and Supriya Velraja
2014-2023	Isolation, Characterization and Optimization of Indigenous Petrol Degrading Bacteria from Oil Contaminated Soil Rupali D. Nanekar and Seema S. Kokitkar
2024-2035	Antibiotic Susceptibility of Bacteria Isolated from Livestock-exposed and Unexposed Areas in Perlite-rich Soil in Thailand Nontaphat Leerach, Suthat Saengchoowong, Laphatrada Yurasakpong, Jirawat Samakkan, Radis Malaisri, Apiwich Panthukan, Nacharan Jittreethat, Woranich Hinthong and Jiraphan Premsuriya
2036-2046	Assessment of Antifungal Potential of Rhizospheric Bacterial Isolates of <i>Daucus carota</i> against <i>Rhizoctonia solani</i> Shweta Sonam, Rishi Srivastava and Rajesh Sharma
2047-2056	Anti-quorum Sensing Activity and Bioactive Components of Marine-derived Bacteria Mahendran Karuppusamy, Sasidharan Satheesh Kumar, Harieswaran Selvam, Karthikeyan Sangapillai, Kishore Kumar Kamachisundaram and Brindha Kothanda Rama
2057-2069	Assessing the Antibacterial Effectiveness against MDR Strains and the Antioxidant Characteristics of <i>Ficus auriculata</i> Namrata Singh, Rashmi Verma, Rabia Basri Aziz, Aayushi Bhakta and Pramod Rawat
2070-2084	Caesalpinia bonducella Seeds Extracts are Non-toxic to the Gut Bacteria Lactobacillus rhamnosus, as Substantiated by In vitro and In silico Studies Manivannan Karthikeyan, Pai Akshatha, Habeeb Shaik Mohideen and Balasundaram Usha
2085-2094	Effect of Chicken Feather Hydrolysate on Growth of Spinach through Soil Amendment Method: Unraveling A Potential Liquid Biofertilizer Liya Merin Stanly and Mridul Umesh
2095-2112	Food Waste Processing Trends Worldwide and Valorization of Food Waste from Pune City Ajaykumar Soni, Sneha Patil, Anand Ghosalkar, Somnath Nandi and Pramod Kumbhar
2113-2120	Study of the Prevalence of Bovine Brucellosis (<i>Brucella abortus</i>) in General Proaño Parish: Evaluation using Rose Bengal Test and Confirmation through Competitive ELISA Kevinn Villavicencio Erazo, Riveliño Ramon, Jenny Martinez Moreira and Favian Bayas Morejón
2121-2129	Identification, Antibiotic Profiling of Potential Pathogenic Bacteria from Fomites in Neonatal Intensive Care Units in a Tertiary Teaching Hospital of North Karnataka C. Shubhada, Shreesha Marla and Reshma Bachagoudar
2130-2136	Categorization of Hepatitis B Infected Patients Attending a Tertiary Care Centre, Puducherry Sangeetha Munuswamy, S. Umadevi, Kalaivani Ramakrishnan and Joshy M. Easow
2137-2146	Isolation and Characterization of Bacteriocin Producing Levilactobacillus brevis Strain ABRIINW-K from Buffalo Dung Mohd Azam, Rashi Srivastava and Tanzeel Ahmed