

CONTENTS

- 429-438** **Patcharaporn Chiawwit, Monchanok Boonyahong, Unchana Thawornwan, Potjane Srimanote and Pongsri Tongtawe**
Identification of VPA1327 (vopT) as a Novel Genetic Marker for Detecting Pathogenic *Vibrio parahaemolyticus*
- 439-458** **Shahira H. EL-Moslamy, Nourhan S. Shehata, Wegdan R. Ahmed and Moustafa Y. El-Naggar**
Statistical Bioprocess Strategies for Bio-fabrication of Nano-Ag from *Streptomyces rectiviolaceus* Strain SMWN3.2 as a Novel Antimicrobial Agent against Hospital-Acquired Infectious Pathogens
- 459-466** **Wongwarut Boonyanugomol, Kamolchanok Rukseree, Prasit Palittapongarnpim, Worrarat Kongkasem and Seung-Chul Baik**
Synergistic Effects of *Helicobacter pylori* Outer Inflammatory Protein A (*oipA*) and *cag* Pathogenicity Island (*cag* PAI) on Interleukin-1 β and Interleukin-8 Gene Expression Levels in Gastric Tissues of Thai Gastrointestinal Patients
- 467-472** **A.G. Zhumina, G.P. Pogossyan, K.G. Li, A.A. Konovalova, A.E. Konkabayeva, M.A. Mukasheva, G.M. Tykezhanova, N.M. Duzbayeva, S.S. Shorin and A.B. Yeshmagambetova**
Nrf2 Expression in CML and AML Patients' Peripheral Blood Mononuclear Cells Treated by Vitamin D, Carnosic Acid and Curcumin
- 473-482** **Chama Lemboub and Djamel Chekireb**
Rock Phosphate Solubilization and Heavy Metals Resistance of Rhizobacteria Isolated from Nodules of *Lathyrus ochrus*
- 483-488** **Hayfaa Jumaah Hasan Alhasnawi, Basima Jasim Mohammed and Zahira A. Al-Zuhairi**
Studying of molecular characterization and Genotyping of Food Poisoning *Staphylococcus aureus*: Isolated from Raw Milk and Milk Products in Iraq
- 489-496** **Walaa F. Alsanie, Ebaa M. Felemban, Mona A. Farid, Mohamed M. Hassan, Ayman Sabry and Ahmed Gaber**
Molecular Identification and Phylogenetic Analysis of Multidrug-resistant Bacteria using 16S rDNA Sequencing
- 497-504** **B.J. Muhiaddin, R. Sukor, N. Ismail, S.W. Ahmad, N. Che Me and A.S. Meor Hussin**
The Effects of Fermentation Process on the Chemical Composition and Biological Activity of Spider Flower (*Gynandropsis gynandra*)
- 505-511** **Hazim K. Abdul Kareem**
The Levels of Tumor Necrosis Factor-alpha (TNF- α G-308A) Genes and Macrophage Migration Inhibitory Factor (MIF G173C) Polymorphism in the Idiopathic Membranous Nephropathy(IMN) in Adults
- 513-519** **Anita Herawati Permana, Fida Madayanti Warganegara, Deana Wahyuningrum and Akhmaloka**
The Effect of Different Matrix Bound on the Transesterification Activity of Immobilized PPD2 Lipase
- 521-532** **Essma Ghalouni, Omar Hassaine and Nour-Eddine Karam**
Phenotypic Identification and Technological Characterization of Lactic Acid Bacteria Isolated from *L'ben*, An Algerian Traditional Fermented Cow Milk

CONTENTS

- 533-542 **Shahira H. EL-Moslamy**
Mycosynthesis of Nano-Ag/Ag₂O as Anti-Phytopathogens Agent using Endophytic *Aspergillus fumigatus* Strain EAF102
- 543-554 **Suddin Simandjuntak and Mocosuli Yermia Samuel**
Isolation and Identification of Thermophilic Bacteria, Producer of Amylase Enzyme, from Lake Linow, North Sulawesi
- 555-566 **Olufunmiso O. Olajuyigbe, Morenike O. Adeoye-Isijola, Tochukwu C. Iyashere, Otunola Adedayo, Anthony J. Afolayan and Roger M. Coopoosamy**
Milk Decontamination and an Effective Milk Pasteurizing Method for Household Dairies
- 567-576 **Pimchanok Somsila, Uthai Sakee, Akeapot Srika and Watchara Kanchanarach**
Antioxidant and Antimicrobial Activities of *Polycephalomyces nipponicus*
- 577-586 **Akbar Ali**
Antimicrobial Resistance Pattern of Uropathogens Isolated from Rafha Central Hospital, Rafha, Kingdom of Saudi Arabia
- 587-599 **Mohamed G. El-Ziney, Eslam A. Abu Zaid and Moustafa Y. El-Naggar**
Characterization of Carotenogenic *Rhodotorula* Strains Isolated from Delta Region, Egypt and their Potential for Carotenoids Production
- 601-610 **Yuniar Mulyani, I. Nyoman P. Aryantha, Sony Suhandono and Adi Pancoro**
Intestinal Bacteria of Common Carp (*Cyprinus carpio* L.) as a Biological Control Agent for *Aeromonas*
- 611-622 **Amani Abdel-Latif, Reem Badr, Injy Hassan and Gamal Osman**
Effect of *Ulva lactuca* Aqueous Extract on Growth, Minerals, Chlorophyll Content, Rubisco Activity and Rubisco Activase in *Zea mays* Seedlings
- 623-632 **Olufunmiso O. Olajuyigbe, Morenike O. Adeoye-Isijola, Babasola A. Osopale and Roger M. Coopoosamy**
In vitro Effects of Magnesium-Aluminum Hydroxide (Maalox) on the Antibacterial Activity of Ciprofloxacin against Clinical Bacterial Isolates
- 633-640 **Mahmoud Mohamed Berekaa and Mohamed Farouk Ezzeldin**
Exopolysaccharide from *Bacillus mojavensis* DAS10-1; Production and Characterization
- 641-646 **Muayad A. Hussein, Hayder A. Muhammid, Ihab G. AL-Shemmari and Yasser J. Jameel**
Efficacy of Different ELISA, Histopathology and PCR Assays for the Diagnosis of Ovine Brucellosis in Ram
- 647-663 **Haider S. Kadhem**
Evaluation of Virulence Factors and Detection of *vanA*, *vanB* and *esp* Genes from Clinical Isolates of Vancomycin - Resistant *Enterococcus faecalis*
- 665-669 **Qasim Sharhan Al-Mayah, Ahmed Sadoon Obeid and Fatima Abood Chalob**
Diagnostic Value of IL-4, IL-10 and IL-12 in Detection of Hepatic Hydatid Cyst Using Receiver Operating Characteristic Curve
- 671-677 **Irda Sayuti, Yusni Ikhwan Siregar, Bintal Amin, Anthoni Agustien and Akmal Djamaan**
Identification of Bacterial Hydrocarbonoclastic in Waste Tanks, Petapahan, Riau, Indonesia, using 16srRNA

CONTENTS

- 679-686** **Ma. Angeles Valencia de Ita, Dulce P. Briones Aranda, Conrado Parraguirre Lezama, J. Refugio Tobar Reyes, Armando Ibañes Martinez and Omar Romero-Arenas**
Evaluation of Substrates in the Elaboration of Secondary Inoculum for the Cultivation of *Pleurotus ostreatus*
- 687-691** **Zainab A. Aldhaher, Batool Hassan Al-Ghurabi and Baydaa Hussein Alwan**
Serum Levels of IL-22 and ACPA in Patients with Rheumatoid Arthritis
- 693-700** **Zainab Adil Ghani Chabuck, Baraa Hamid Hadi and Nada Khazal Kadhim Hindi**
Evaluation of Antimicrobial Activity of Different Aquatic Extracts Against Bacterial Isolates from UTI in Babylon Province, Iraq
- 701-704** **Rana A. Jawad, Ihsan M. Sulbi, Yasser J. Jameel and Hayder A. Muhammid**
Molecular Detection of *Echinococcus granulosus* from Visceral Organs of Cattle Abattoirs-Kerbala Province
- 705-711** **Areena Hoda Siddiqui and Poonam Verma**
Resistance in Gram Negative Organisms: A Need for Antibiotic Stewardship
- 713-720** **Renu Singh, Tanzeel Ahmed, Neelam Bamola and Rajvardhan Singh**
Isolation and Characterization of Magnetotactic Bacteria Collected from Northern India: A Preliminary Study
- 721-724** **S. Aveline and R. Mohan Kumar**
Health Issues and Challenges Faced by Employees Engaged in Software Industries in Chennai
- 725-731** **Rupinder Singh, S. Senthilkumar and Shailesh Kumar Singh**
Role of Packaging on Shelf Life and Quality of Kinnow - A Review
- 733-749** **V. Jeyanthi and S. Kanimozhi**
Plant Growth Promoting Rhizobacteria (PGPR) - Prospective and Mechanisms: A Review
- 751-756** **P. Sankarganesh, Baby Joseph, A Ganesh Kumar, S. Illanjiam and T Srinivasan**
Phytomedicinal Chemistry and Pharmacognostic Value of *Carica papaya* L. Leaf
- 757-763** **N. Arvind, K. Prabhakar, N. Savitha and M. Mahendra**
Clinical and Microbiological Profile of Patients with Acute Febrile Illness Attending a Tertiary Care Hospital in South India
- 765-776** **H.M. Bhagya, B. Renuka, Mahadeva Naika, H.V. Batra and H.S. Murali**
Screening for Folate Producing Lactic Acid Bacteria from Colostrum and Characterization of their Probiotic Potential
- 777-782** **Sarab Hussein Khaleel, Ibtisam H. Al-Azawia and Ali Hussein Khlebos**
Genotyping of *Vibrio cholera* for Virulence Factors in Diwaniyah City - Iraq
- 783-791** **Amal Qasim Ahmed and Mohammed Moudhaffar Mohammed Ali**
The Influence of Titanium Dioxide Nanoparticles Incorporation into Soft Denture Lining Material on *Candida albicans* Adherence and Some Mechanical and Physical Properties
- 793-799** **Areej Atiyah Hussein, Rawaa Abdulkhaleq Hussein and Mohammed Jasim Shaker**
Enteric Viruses Co-infection with Giardiasis among Diarrheal Children in Diyala Province - Iraq

CONTENTS

- 801-805** **Isa Swadi Touhali**
Isolation and Identification of Some Opportunistic Fungi from Camels in Wasit Governorate of Iraq
- 807-813** **Ali J. Hammud, Nihad A. Ali, Ali M. Alkassar and Yasser J. Jameel**
The Effect of Partial Replacement of Maize by Date Pits on Broiler Performance
- 815-825** **Restya Ulfa, Dwi Suryanto and Erman Munir**
An Ability of Endophytes from Blackboard Tree (*Alstonia scholaris*) in Increasing Chili Performance
- 827-832** **Nawar Jaber Hussein Al-Asadi and Russul Wassit Kadhum**
Molecular Detection and Genotyping of *Giardia lamblia* from Human Samples in Wasit Province, Iraq
- 833-838** **Aida Z. Al-Kaissy and Ahmed Anwar Albir**
Estimation of the Role of Apoptosis in Altering the Architecture of the Cells of Exocrine Pancreas in Mice Inoculated with Mammary Gland Carcinoma by Using Soft Laser
- 839-844** **Zahraa M. Al-Hawwaz and Adel F. Ibraheem**
Marginal and Internal Fitness of Full Contour CAD/CAM Fabricated Zirconia Crowns using Different Digital Intra-oral Scanners (An *In vitro* Study)
- 845-854** **Mohammed Jasim Al-Shamarti, Ahmed A. Hussein and Adil Ibadi Al-Luhaiby**
The Relationship Between the Type of Infection and Antibiotic Resistance
- 855-870** **Farah Ayad, Amaria Matallah-Boutiba, Omar Rouane-Hacene, Mohamed Bouderbala and Zitouni Boutiba**
Tolerance of *Trichoderma* sp. to Heavy Metals and its Antifungal Activity in Algerian Marine Environment
- 871-877** **Sagar Mali, P.M. Beena and N. Arvind**
Evaluation of Microscopy, Culture and PCR Assay in the Diagnosis of Extrapulmonary Tuberculosis
- 879-885** **Kajal Kumari, Somesh Sharma and Kirti Kaundal**
Production, Purification and Efficacy of Bacteriocin Isolated from Natural Lactic Acid Fermentation of Wild Himalayan Fig Fruit
- 887-895** **Kunal N. Shah, Dev S. Nauriyal and C.G. Joshi**
Real-time PCR Based Assay Offers High Resolution in Detecting Bacterial Species from Bovine Sub-clinical Mastitis for Prudent Antimicrobial Treatment
- 897-904** **Manish Kumar, Raghvendra Saxena, Surendra S. Parihar, Pankaj K. Rai and Rajesh S. Tomar**
Molecular Characterization and Phylogeny of Some Cyanobacterial Strains Isolated from Soil and Freshwater Ecosystem
- 905-911** **P.G. Rathwa, K.D. Mevada, K.C. Ombase, C.J. Dodiya, Vipen Bhadu, V.S. Purabiya and M.M. Saiyad**
Integrated Nitrogen Management through Different Sources on Growth and Yield of Wheat (*Triticum aestivum* L.)

CONTENTS

- 913-920 Praveen C. Shetty, Thasneem S. Luqman, Raghavendra D. Kulkarni and Parashuram Y. Koti**
Comparative Evaluation of Antibiotic Susceptibility Testing on Vitek-2 Compact and Direct Sensitivity Test from Blood Cultures from a Tertiary Care Centre in South India
- 921-931 Sadam D.V. Satyanarayana, M.S.R. Krishna, Sirisha Jeeredy and Pindi Pavan Kumar**
In silico Structural Homology Modeling of Nif A Protein of Rhizobial Strains in Selective Legume Plants
- 933-942 Manpreet Kaur Attri and Ajit Varma**
Comparative Study of Growth of *Piriformospora indica* by using Different Sources of Jaggery
- 943-952 Y. Gethara Gowri Rekha and S. Vijayalakshmi**
Production and Optimization Techniques of Bioethanol from Withered Flowers of *Allamanda schottii* L. by Activated Dry Yeast
- 953-960 Shikha Gupta and Sangeeta Pandey**
Isolation and Characterization of Bacteriocin Producing Bacteria from Sweet Lime Juice
- 961-967 Sivanagini Yalavarthi, Deepak Nallaswamy and Ashish R. Jain**
Resistance to Oral Pathogens Among Dentures Wearers
- 969-974 P. Senthilkumar, S. Rashmitha, Priscilla Veera, C. Vijay Ignatious, C. SaiPriya and Antony V. Samrot**
Antibacterial Activity of Neem Extract and its Green Synthesized Silver Nanoparticles against *Pseudomonas aeruginosa*
- 975-979 R. Shamim and Ramalakshmi Sathiss**
Bacterial Profile and Antimicrobial Susceptibility Pattern in Pregnant Women with Urinary Tract Infection Attending the Department of OBG in a Tertiary Care Hospital
- 981-991 Bijesh Kavuthodi and Denoj Sebastian**
Response Surface Methodological Approach to Optimize the Critical Medium Components for Augmented Pectinase Production by *Bacillus subtilis* BKDS1
- 993-1000 Bhagyalaxmi Biswal, Shantanu K. Kar, Bibhuti Bhusan Pal and Bhagirathi Dwibedi**
Bacterial and Viral Etiology of Acute Respiratory Illness among Children from two Different Geographical Localities of Odisha, 2015-2016
- 1001-1010 P.D. Patel, M.V. Patel, K.C. Ombase, K.D. Mevada, A.P. Patel and Y.C. Lakum**
Real Time Nitrogen Management through Organic and Inorganic Sources in Wheat
- 1011-1017 Shahnawaz Mohd and Abdul Malik**
Prevalence of Antibiotic and Heavy Metals Resistance in Coliforms Isolated from Hospital Wastewater
- 1019-1025 K. Rajalakshmi, P. Shanmugapriya, G.J. Christian, R. Jeeva Gladys, V. Banumathi and S. Geethalakshmi**
Antimicrobial Potential of Siddha Polyherbal Formulation Aavarai Kudineer
- 1027-1031 Arwankie Shadap, Y.A. Lyngdoh and Shailesh Kumar Singh**
Ginger as an Alternative Medicine to Urban Population – A Review