

CONTENTS

- 01-12** **Ashgan M. Hessain, Abdullah A. Al-Arfaj, Moussa I. Mohamed and Mohamed I. AlHazmi**
Phylogenetic Relationships of *Escherichia coli* Isolates Associated with Bovine Fecal and Milk samples
- 13-21** **Ahmed Abdel-Megeed**
Potential Degradation of Certain Alkanes by *Pseudomonas frederiksbergensis*
- 23-34** **Hajar Maataoui, Mohammed Iraqui, Saad Ibnsouda and Abdellatif Haggoud**
Isolation and Characterization of a *Streptomyces* Strain Endowed with Antifungal Activity
- 35-42** **E.E. Hafez and S.S. Kabeil**
Antimicrobial Activity of Nano-silver Particles Produced by Micro Algae
- 43-52** **Nurhidayah Ahmad Hassan, Azura Amid and Hamzah Mohd Salleh**
Cloning and Expression of Voltage-dependent Anion Channel 2 (VDAC2) from Electrically Stimulated Chicken
- 53-62** **Khalid S. Al-Zuaagi, Mohammed Abdo Moslem, Sarfaraz Hadi and Mohammed Rabbani**
Molecular Procedures for Detection of Mycotoxigenic Fungi in Wheat Supplies in Saudi Arabia
- 63-77** **Khalid A.A. AbdelRahim, A.M. Hassanein, M. Sabry Younis & A. Abd El-Azeiz Heikal**
Correlation Between Physicochemical and Microbiological Characteristics of River Nile Water in Sohag Governorate, Egypt
- 79-91** **Elsayed E. Hafez, Emad el-Dein H. Wasfy, Ahmed H.M. Ramadan and M. A. Abdel-Gayed**
Molecular Identification of Four Botrytis Species Three of Them Associated with Neck Rot and Blasting Diseases of Onion with Special Reference of Two, aclada and byssoidae
- 93-105** **Ashraf A. Khalil, Ashgan E. Abou-Gabal, Asmaa M. Elfaramawy, Ahmed E. Khaled and Amira A. Abdellatef**
Lactic Acid Bacteria as Antimycotic and Antimycotoxins Agents against Toxigenic *Fusarium* species Associated to Maize Grains Stored in Egyptian Markets
- 107-116** **Mahera M. Shinwari, Sulaiman Ali Alharbi, Ismet Ara, Milton Wainwright and Mohammad A. Khiyami**
Gas Chromatography and Mass Spectrum Analysis of the Selective Diversity of Actinobacteria Isolated from Extreme Environments in Saudi Arabia
- 117-129** **Sami A. Gabr and Ahmad H. Alghadir**
HCV Genotypes and Cellular Immune Response in Correlation to Liver Fibrosis
- 131-137** **Hayssam M. Ali, Mohamed Z.M. Salem and Abdulaziz A. Al Sahli**
Performance of Antioxidant Activity of Methanolic Extracts from Different Parts of Some Tree Species using DPPH Radical-scavenging Assay

CONTENTS

- 139-148** **Mohammed O. Basalah, Hayssam M. Ali, Mohamed H. Al-Whaibi, Manzer H. Siddiqui, Ahmed M. Sakran and Abdulaziz A. Al Sahli**
Nitric Oxide and Salicylic Acid Mitigate Cadmium Stress in Wheat Seedlings
- 149-158** **Khalid A. Ali AbdelRahim, M. M. Ibrahim and Gehan A. El-Gaaly**
Identification of Newly Isolated Xanthomonades by Using Pathological, Chemical and Physiological Tests
- 159-168** **Abdulaziz A. Al Sahli, Mohammed A. Al-Muwayhi, Abdallah R. Doagey, Mohamed H. Al-Whaibi, Mohammed O. Basalah, Hayssam M. Ali, Manzer H. Siddiqui, Mohamed E. El-Zaidy and Ahmed M. Sakran**
Ozone Effects as Combined with Ascorbic Acid on the Anatomical, Physiological and Biochemical Parameters of Pepper (*Capsicum frutescens* L.)
- 169-178** **A. A. Mostafa, A.N. Al-Rahmah and A. A. Abdel-Megeed**
Antagonistic Activities of Some Fungal Strains against the Toxigenic *Aspergillus flavus* Isolate and its Aflatoxins Productivity
- 179-188** **Amany S. Youssef, Mervat F. El-Sherif, Maha A. Hassan, Hanim M.G. Hassan and Samy A. El-Aassar**
Purification and Properties of Chitinase Enzyme Produced by *Bacillus licheniformis*
- 189-198** **Rashad A. Al-Salahi, Amira M. Gamal-Eldeen, Amer M. Alanazi, Mohamed A. Al-Omar, Mohamed A. Marzouk and Moustafa M.G. Fouda**
Cytotoxic and Anti-Inflammatory Active Methylsulfanyltriazoloquinazolines
- 199-207** **Turki A. AL-Shammari, Ali H. Bahkali, Abdallah M. Elgorban, Maged T. El-Kahky and Basheer A. Al-Sum**
The Use of *Trichoderma longibrachiatum* and *Mortierella alpina* Against Root-Knot Nematode, *Meloidogyne javanica* on Tomato
- 209-218** **Abeer K. Abdulall, Hadir A. El-Mahallawy and Mahmoud M. Tawfick**
Molecular Characterization of Extended-Spectrum Beta-Lactamases producing *Escherichia coli* and *Klebsiella pneumoniae* Blood Isolates from Egyptian Pediatric Cancer Patients
- 219-232** **Khalid A. Ali AbdelRahim, M. M. Ibrahim and Gehan A. El-Gaaly**
Plasmids Roles in Virulence of *Xanthomonas axonopodis* pv. *malvacearum* (*Xam*) Races, the Causal Agent of Bacterial Blight of Cotton
- 233-241** **Amal A. Hazani, Mohamed M. Ibrahim, Ibrahim A. Arif, Afaf I. Shehata, Gehan EL-Gaaly, Mohamed Daoud, Dalia Fouad, Humaira Rizwana and Nadine Moubayed**
Ecotoxicity of Ag-Nanoparticles to Microalgae
- 243-251** **Majed M. Albokari**
Microbial Communities Inhabiting Hot Springs Water of Jazan Area, Saudi Arabia

CONTENTS

- 253-257** **Shahbudin Saad, Muhammad Taher, Deny Susanti and Haitham Qaralleh, Nooradila Noorhaidi and Anis FadhlinaIzyani Binti Awang**
Antimicrobial Activity of Mangrove Plant *Acrostichum speciosum*
- 259-267** **Mayson H. Alkhateeb, Magda M. Aly and Salwa Bagabas**
Antibacterial Activity and Mechanism of Action of Lipid Nanoemulsions Against *Staphylococcus aureus*
- 269-276** **Safika, Fida Madayanti, Pingkan Aditiawati and Akhmaloka**
Succession of Bacterial Culture-independent During Manure Composting Process
- 277-284** **Ibrahim A. Alaraidh, Mohamed M. Ibrahim and Gehan A. El-Gaaly**
Evaluation of Green Synthesis of Ag Nanoparticles using *Eruca sativa* and *Spinacia oleracea* Leaf Extracts and their Antimicrobial Activity
- 285-292** **Yan Wang, Sheng Song, Ming Ye, Ying Lu, Lan Li and Jun-hong Li**
Extraction Technology, Structural Characteristics and Antibacterial Activity of Melanin from a Strain of *Lachnum*
- 293-299** **Amal A. Al-Hazzani**
Molecular Characterization of Extended- Spectrum β - Lactamase Resistance Genes among *Salmonella* Isolates from Poultry, Poultry Products and Human Patients in Saudi Arabia
- 301-308** **Guowei Shu, Hui Yang, He Chen, Zhe Ji and Hongni Xing**
Effect of Carbon Source and Salts on Angiotensin I Converting Enzyme (ACE) Inhibitory Activity in Fermented Goat Milk by *Lactobacillus bulgaricus* LB6
- 309-316** **Sherif H. Abd-Alrahman, Mounir M. Salem-Bekhit, Sobhy M. Yakout and Manal E. A. Elhalwagy**
Chemical Composition and Antimicrobial Activity of Various Crude Extracts of Ginger (*Zingiber officinale* Roscoe.)
- 317-323** **Yu-e Ye, Jing Ji, Ming Ye, Yun-long He and Liu Yang**
Physicochemical Properties and Flavor Compounds of Soy Milk Yogurt
- 325-331** **Ashgan M. Hessain, Abdullah A. Al-Arfaj, Mohamed I. Al-Hazmi, Hemeg A. Hassan and Moussa I. Mohamed**
Preparation of the Immunoglobulin Y (IgY- antibodies) against Saudi *Echis carinatus* Snake Venom
- 333-339** **N.M. Deraz and Omar H. Abd-Elkader**
Preparation and Characterization of Nano-magnetic $\text{Ni}_{0.5}\text{Mg}_{0.5}\text{Fe}_2\text{O}_4$ System for Biological Applications
- 341-347** **A.R.M. Abd-El-Aziz, M.A. Mahmoud, M.R. Al-Othman and Mohamed S. El-shikh**
Genetic Variability of Non-aflatoxigenic *Aspergillus flavus* Isolates by using Aflatoxin Biosynthesis Genes

CONTENTS

- 349-354 Tajul Afif Abdullah, Azura Amid, Noor IlliMuhamad Puad, Parveen Jamal and Hafsaah Jaafar**
Study on Callogenesis and Growth Kinetic of *F. deltoidea* Var. *Trengganuensis* Cell Suspension Culture
- 355-360 Mohamed Z.M. Salem, Mohamed S. El-Shikh and Hayssam M. Ali**
Chemical Characterization of the Volatile Oil Isolated from Leaves of *Schinus molle* L. and Its Antioxidant Activity
- 361-367 Mohamed A. Yassin, Abd El-Rahim M.A. El-Samawaty, Mohamed A. Moslem and Medhat A. El-Naggar**
Myco-Contaminants Associated with Pistachio Nut and the *Aspergillii* Mycotoxicity
- 369-378 Abeer R. M. Abd El- Aziz, Mohamed A. Mahmoud and Monira R. Al- Othman**
Genetic Diversity of *Aspergillus flavus* Contamination of Sorghum Grains
- 379-385 Sherif H. Abd-Alrahman, Mounir M. Salem-Bekhit and Manal E.A. Elhalwagy**
Chemical Composition and Antimicrobial Activity of *Ziziphus jujuba* Seeds Extract
- 387-393 Nasrallah M. Deraz, Seham A. Shaban, Salwa M.I. Morsy, Saad M. Desouky and Omar H. Abd-Elkader**
Environmentally Evaluation for Desulfurization of Gas Oil with [BMIM][FeCl₄] based on Catalytic Ionic Liquids at Room Temperature
- 395-400 Monira R. Al-Othman, Abeer R.M. Abd El-Aziz and Mohamed A. Mahmoud**
Inhibitory Effect of Cinnamon Oil on Aflatoxin Produced by *Aspergillus flavus* Isolated from Shelled Hazelnuts
- 401-406 Hany M. Yehia, Saleh H. Salmen, Sulaiman Ali Alharbi, Mohammad A. Khiyami, Milton Wainwright, Naiyf S. Alharbi and Arunachalam Chinnathambi**
Antifungal Protein ~35kDa Produced by *Bacillus cereus* Inhibits the Growth of Some Molds and Yeasts
- 407-415 Arash Bahrami, Mohammad Alizadeh, Seyed Rafie Arefhosseini and Sorayya Kheirvari**
Alterations in Biogenic Amines Content During Storage in Frequently Consumed Fishes in Iran
- 417-422 Sherif H. Abd-Alrahman and Monir M. Salem-Bekhit**
Phytochemical Screening and Antimicrobial Activity of EthOH/Water *Trigonella foenum-graecum* (Fenugreek) Extracts
- 423-427 Basheer A. Al-Sum, Ali H. Al-Bahkali, Shafik A. Filflan, Mohamad A. Moslem, Saleh A. Eifan and S. Hadi**
Selection of Polygalacturonase-Secreting *Saccharomyces cerevisiae* Mutants from Saudi Arabia
- 429-433 Marwah M. Bakri**
Awareness of H1N1 among Girls Students of Jazan University, Saudi Arabia

JOURNAL OF PURE AND APPLIED MICROBIOLOGY

Volume 07 Special Edition

November 2013

CONTENTS

- 435-439** **A.Y. Soliman, F. K. Mohamed, Ramadan M. Abdel-Motaleb, Rasha M. Abdel-Rahman, A.M. Abdel-Mohsen, Moustafa M. G. Fouada, Salem S. Al-Deyab and Asmaa S. Mohamed**
Reaction and Antibacterial Efficacy of Active Methylene Compounds with Coumarin Derivatives
- 441-445** **Moussa I. Mohamed, Ashgan M. Hessain, Dalia K. Ismail, Abdullah A. Al-Arfaj and Hemeg H.A.**
Molecular Detection and Characterization of Shiga Toxigenic *Escherichia coli* Associated with Dairy Product
- 447-451** **Hend A. Alwathnani and Ashgan M Hessain**
Molecular Detection and Characterization of *Escherichia coli* O157:H7 and O111 Associated with Milk samples by Multiplex PCR
- 453-458** **F. K. Mohamed, A. Y. Soliman, Ramadan M. Abdel-Motaleb, Rasha. M. Abdel-Rahman, A. M. Abdel-Mohsen, Moustafa M. G. Fouada, Salem S. Al-Deyab and Radim Hrdina**
Synthesis and Antibacterial Activity of New Quinoline Derivatives Started from Coumarin Compounds
- 459-463** **Sobhy M Yakout, Sherif, H. Abd-Alrahman, A. Mostafa and Mounir M. Salem-Bekhit**
Antimicrobial Effect of Seed Ethanolic Extract of Coriander
- 465-469** **Sadia Zafar, Syed Baqir Shum Naqvi, Faaiza Qazi, Nusrat Bano and Rabia Sheikh**
Pseudomonas aeruginosa: Need for Optimization of antibiotic Use
- 471-474** **S. Gomathinayagam, G. Rekha and Lydia Ori**
Antibacterial Activities of Ethanolic Leaf Extract of *Carica papaya* on *Escherichia coli* and *Staphylococcus aureus*
- 475-477** **Pegah Shakib, Sobhan Ghafourian, Gholamreza Goudarzi, Masoumeh Ghafarzadeh and Hossein Noruzian**
Prevalence of *Listeria monocytogenes* in Pregnant Women in Khorram Abad, Iran
- 479-482** **Hashim Bin Salleeh, Sulamain Ali Alharbi, Tahani Alahmadi, Ibrahim Bin Salleeh, Milton Wainwright, Mohammad A. Khiyami and Hesham Khalil**
A Pilot Study to Determine the Degree of Colonization of Pediatric Emergency staff with Methicillin-Resistant *Staphylococcus aureus* (MRSA)
- 483-487** **Wael N. Hozzein, Mohammed A.M. Wadaan, Marzouka S. Abdel Tawab and Mohammed B. Ahmed**
Quantitative Screening of Some Wastewater Actinomycetes for Production of Industrial Enzymes
- 489-494** **N.M. Deraz and Omar H. Abd-Elkader**
Preparation and Characterization of Magnesium Ferrite/Magnetite Nanocomposite Based Antimicrobial Material

CONTENTS

- 495-500 Faham Khamesipour, Abbas Doosti and Hamed Taheri**
Molecular Detection of *Brucella* spp. in the Semen, Testis and Blood Samples of Cattle and Sheep
- 501-508 Ahmed Abdel-Megeed, Ashour Eman and Al-Meshal Areej Suliman**
Changes in Protein Profile Induced by Glyphosate, Diclofop-Methyl and Pendimethalin in Herbicide-tolerant Fungi
- 509-515 Wael N. Hozzein, Ahmed M. Reyad, Mohammed S. Abdel Hameed and Mohammed I.A. Ali**
Characterization of a new protease produced by a thermohaloalkali tolerant *Halobacillus* strain
- 517-523 Aixiang Wu, Mingqing Huang, Yiming Wang, Kaijian Hu, Shenghua Yin and Hongjiang Wang**
Pyrite Desulfurization Under Variable Initial pH Conditions Using Extreme Thermophilic Bacteria
- 525-539 Yan-Lin Sun and Soon-Kwan Hong**
Genetic Divergence and Phylogenetic Analysis of *Hedyotis diffusa* and *H. corymbosa* Based on Nuclear Ribosomal DNA ITS Sequence
- 541-552 Li Xiao-ting, Wand Dong, Zhu Da-Zhou, Ma Zhi-hong, Pan Li-gang and Wang Ji-hua**
The Recognition of Biological Pesticide Adulteration by Attenuated Total Reflection Infrared Spectroscopy
- 553-564 Guofeng Zhang, Jinghua Sha, Tunyen Wang, Jingjing Yan and Yoshiro Higano**
Comprehensive Evaluation of Socio-economic and Environmental Impacts using Membrane Bioreactors for Sewage Treatment in Beijing
- 565-575 Xiao-Yang Zhao, Jing Zhang, Xiu-Dong Chen, Shan-Qiang Wang, Ya-Meng Yang, Ya-Xing Jing and Zhen-Yu Zheng**
Investigation of Genes Related to Porcine Fatty Deposition by Illumina Sequencing
- 577-587 Lei Feng, Rundong Li and Xue-yi You**
Performance Evaluation of Oxygen and Air for the Microaerobic Removal of Hydrogen Sulphide in Biogas from Cow Manure Anaerobic Digestion
- 589-599 Sichen Liu, Guohu Chen, Lifei Yang, Junyi Gai and Yuelin Zhu**
Production of Transgenic Soybean to Eliminate the Major Allergen Gly m Bd 30K by RNA Interference-mediated Gene Silencing
- 601-610 Huimin Zhang, Changlu Guo, Hongkui He, Kaiqiang Li, Yuan Sun, Qingwu Zhoub and Zhizhou Zhang**
QPCR Quantification Strategy of Minor Species in a Complex Microbial Community Using Species-specific Primers

CONTENTS

- 611-619** **Yan-Lin Sun, Sang-Heon Han, Young-Chul Park, Ho-Min Kang, Jun-Pill Baek, She-Hwan Kim, Hyang-Hee Hwang, Jong-Suh Shin, Wan-Geun Park, Kristine M. Kim and Soon-Kwan Hong**
Identification and Taxonomy of the Endophytic Fungi and Potential Pathogens in Citrus Plants
- 621-629** **Wei Jiang, Yongguang Yin, Yajun Zhou and Guidan He**
Fast Hydrolysis of Antler Residue (*Comu cervi pantotrichum*) by Pulsed Electric Field Assisted Pepsin
- 631-638** **Meng LI, Xiaohui Cheng, Hongxian Guo and Zuan Yang**
Enhancement of the Yield and Strength of Microbially-induced Carbonate Precipitation by Optimum Cultivation and Grouting Measures for Civil Engineering Applications
- 639-646** **LV Yang, Fu Bai-lin, Yuan Wen-jie and Hu Wen-ju**
Study on Thermal Response of Fungal Microorganisms in Air Conditioning System
- 647-654** **Hai Yan Li**
Motion Modes Analysis with Elastic Network Model from the p53 DNA-binding Domain
- 655-662** **Xue Gao, Gang Xu, Yong Liu, Jianqing Chen, Yang Cui, Guangdong Cheng, Qingbo Yan and Yanhua Li**
Validation of a UPLC/MS/MS Method for Determination of Compound Amoxicillin and Tylosin in Swine Plasma and its Application in a Pharmacokinetic Study
- 663-670** **Signem Oney and Selma Tabur**
Cytogenetical and Molecular Responses of Exogenous Potassium Sulphate for Tolerance to Extreme Temperatures in *Vicia faba* L.
- 671-678** **Xiao-Wei Zhang, Pei-Rui Li, Chang-Lu Wang, Mian-Hua Chen, Zhen-jing Li and Yu-Rong Wang**
Effect of Blue Light on the Growth, Culture Morphology & Pigment Production of *Monascus*
- 679-685** **Yu Haoran, Liu Yanjie, Huo Liujie, Liang Xinya, Kang Guangbo and He Huang**
Soluble Expression of Active Recombinant Firefly Luciferase in *Escherichia coli*
- 687-693** **Yan-Lin Sun, Jun-Pill Baek, Mun-Haeng Lee, Hee-Kyoung Lee, Young-Shik Kim, Soon-Kwan Hong, Mohammad Zahirul Islam, She-Hwan Kim, Hyang-Hee Hwang and Ho-Min Kang**
Phylogenetic Relationships of Varieties of Tomato (*Solanum lycopersicum*) using DNA Markers
- 695-701** **Shao Quan, Tang Zhixing and Jia Meng**
Super Spreader, Age Structure and Group Behavior: A Cluster of Influences on Influenza Diffusion within Public Transport Stations
- 703-709** **Mohammad Zahirul Islam, Jun Pill Baek, Young-Sik Kim and Ho-Min Kang**
Characteristics of Chilling Symptoms of Cherry Tomato Compared to Beefsteak Tomato Harvested at Different Ripening Stages

CONTENTS

- 711-717** **Hao Huang, Zhonghua Yang, Guanghui Wang and Jun Chen**
Structural Characterization and in vitro Antiviral Activity of Oligo-glucomannan Sulfate Prepared from Amorphophallus konjac
- 719-725** **Wu Hui, Liu Dongmei, Lu Xiao-xu and Chen Hao**
Influence of Dual Control Cox-2 Expressions on Radiation Sensitivity to Transplanted Tumor of Human Esophageal Cancer EC9706 in Nude Mice
- 727-733** **Zhang De-Yong, Xu Xiao-Lu, Shen Xiu-Ying, Lu Yin, Xu Hui-Ying and Hao Fei-Lin**
Optimization of Infectious Bronchitis Virus Nucleocapsid Protein's in-vitro Expression using Response Surface Methodology
- 735-740** **Quanquan Liu, Lei Yang and Jingtang Zheng**
Screening and Cultivation Conditions of a Bacteroides strain from Tideland Soil
- 741-746** **Yuzhong Wang, Yan Liu, Sunlin Hu, HuiPin Wang, Jian Zhao, HuiJun Wang and Chao Liu**
Numbers and Types of Diatoms in Pearl River
- 747-752** **Sun Jun, Jin Xiaming, Mao Hanping and Wu Xiaohong**
Identification of Lettuce Storage Time based on Spectral Preprocessing Technology and PCA+SVM
- 753-758** **Sheli Chai, Jia Guo, Yuan Chai, Jing Cai and Qingwei Zhang**
The Effect of Trace Element Addition on the Performance Efficiency of An Anaerobic Moving Bed Biofilm Reactor Treating Wine Vinasse
- 759-764** **Jun Wang, Ming Yang, Jun Gou, Zehua Huang and Yadong Jiang**
Preparation and Characterization of Lithium Tantalate Thin Films using a High-concentration Precursor Solution
- 765-770** **Dajun Ren, Yuanyuan Zhang, Qin Xu, Chunxing Wang, Tao Wang, Su Huang and Shuqin Zhang**
Effects of Chemical Modification on Laccase Stability and Degradation of Indole
- 771-776** **Pan Wei, Zhang Qi and Sun Yali**
Modification of Polyacrylonitrile nanofibers by Blending with Bacterial Cellulose
- 777-782** **Lei Feng and Rundong Li**
Process Parameters of Dry Co-anaerobic Digestion of Kitchen Waste and Cow Manure on Laboratory Scale
- 783-787** **Hou Ling-ling, Xia Zong-xin, Li Fei and Xing Ying**
Cloning of Rat BDNF and Construction of Recombinant Targeted Expression Vector pGPAF
- 789-793** **Shu-juan Jiang, Fang Qian, Xiaowen Shen and Guangqing Mu**
Separation and Purification of Angiotensin Converting Enzyme Inhibitory Peptides Derived From Bovine Casein

CONTENTS

- 795-799** **Xu Zhaoyang, Ma Yaoren, Zhou Feng and Lv Hui**
Laboratory Tests on the Improvement of Characteristics of Silt Using Iron Bacteria
- 801-804** **Liu Qinghua and Zhang Lei**
A Study on The Potential of Phosphorus Uptake by Different Maize Varieties Under Low Phosphorus Stress
- 805-808** **Shaoli Yang, Zhen Su and Xudong Jiao**
Histopathological Study on fin Ulcer Syndrome of Turbot (*Scophthalmus maximus*) Larvae in China
- 809-812** **Bao Shuochao, Wang Qing, Bao Xinhua and Wang Zijian**
Characters of Saline-alkali Soil in Western Jilin and biological Treatment
- 813-818** **Sherif H. Abd-Alrahman, Mounir M. Salem-Bekhit, Manal E.A. Elhalwagy, Wael M. Abdel-Mageed and Awwad A. Radwan**
Phytochemical Screening and Antimicrobial Activity of EthOH/Water *Ziziphus jujuba* Seeds Extracts
- 819-826** **Abdallah M. Elgorban, Ali H. Bahkali and Basheer A. Al-Sum**
Biological Control of Root Rots and Stems Canker of Tomato Plants Caused by *Rhizoctonia solani* in Saudi Arabia