

## CONTENTS

## Original Articles

- 583 – 591 Synergistic Effect of *Coriander Sativum* Essential Oil and Gentamicin against Biofilm Formation of Some Pathogenic Bacteria  
*Eliza Hasen, Mohammad AA Al-Najjar, Shaymaa B Abdulrazzaq, Amin Omar, Wamidh H. Talib, Fatma U Afifi, Jehad almaliti, Asma Ismail Mahmud, Lujain F Alzaghari, Muna Barakat*
- 593 – 599 Role of MicroRNA in Obesity and Its Hypertension Complication  
*Weaam Gouda, Soad M. Eweida, Habeba Magdy, Hatem A. El-Mezayen, Elsayed Mahdy, Mie Afify, W. I. Hamimy, Mohamed D. E. Abdelmaksoud*
- 601 – 611 3 Genetic Differentiation Among Wheat Genotypes Using SDS-PAGE and Molecular Markers  
*Samira A. Osman, Samy A.A. Heiba, Hamdy M.H. Abd Elrahman, Rania T. Ali*
- 613 – 621 4 Culture Trials and Biochemical analysis of Arabian yellowfin seabream *Acanthopagrus arabicus* Iwatsuki, 2013 to Evaluate Feed Efficacy  
*Komal Shabbir. Nuzhat Afsar, Ghulam Abbas, Abdul Malik, Rafia Azmat and Shahzad Najam*
- 623 – 628 5 Assessing the Productivity and Effectiveness of Various Sorghum (*Sorghum bicolor* L. Moench) Genotypes in Semi-arid Environments  
*Fakher J. Aukour; Nabeel Bani Hani and Omar Mahmoud Al zoubi*
- 629 – 636 6 Growth, Water Relation and Physiological Responses of Eggplant (*Solanum melongena* L.) under Different Olive Mill Waste Water Levels  
*Shorouq Jaradat, Emad Y. Bsoul, Salman Al-Kofahi and Rami Alkhatib*
- 637 – 643 7 An *in vitro* Study into Antioxidant, Antibacterial, and Toxicity Impacts of *Artocarpus altilis* Leaf Extract  
*Nguyen Minh Tue, Nguyen Trung Quan, Hoang Thanh Chi, Bui Thi Kim Ly*
- 645 – 655 8 The Role of Chitosan in Improving the Cold Stress Tolerance in Strawberry varieties  
*Sherin A. Mahfouze, Heba A. Mahfouze, Radwa Y. Helmi, Fathallah B. Fathallah, Kamal A. Aboud, and Mahmoud E. Ottai*
- 657 – 665 9 Functional Group of Spiders on Durian Plantations in Tarakan Island: The Influence of Ant Predator *Oecophylla smaragdina* on Spiders  
*Abdul Rahim, Kyohsuke Ohkawara, Oshlifin Ruchmana Saud*
- 667 – 680 10 The Impact of Rhizosphere Bacterial Strains as Biofertilizers: Inhibiting Fungal Growth and Enhancing the Growth and Immunity of Sprouted Barley as an Alternative Livestock Feed  
*Walaa Hussein, Walaa A Ramadan, Fatma E Mahmoud and Sameh Fahim*
- 681 – 691 11 Investigation of Antioxidant and anti-melanogenic Activities from Secondary Metabolites of Endophytic Fungi Isolated from *Centella asiatica* and *Syzygium polyanthum*  
*Silva Abraham, Helen Octa Lentaya, Muhson Isoni, Rizka Gitami Sativa, Dicky Adihayyu Monconegoro, Teguh Baruji, Winda Tasia, Agus Supriyono, Sjaikhurrizal El Muttaqien, Asep Riswoko*

- 693 – 703 12 Evaluation of Antifungal, Antibacterial and Anti-insecticidal Activities of Three *Bacillus* Strains Produced by Protoplast Fusion from *Bacillus thuringiensis*.  
*Shereen A H Mohamed, Hayam Fouad Ibrahim, Walaa Hussein, Hanaa E. Sadek and Huda H. Elbehery*
- 705 – 713 13 Impact of Algal Extract on Quorum Sensing and Biofilm Formation genes of Multidrug-resistant *Staphylococcus aureus* and *Pseudomonas aeruginosa*  
*Abdulilah S Ismaeil, Janan J Toma, Nishiman S Hasan, Akhter A Ahmed, Muhsin J Abdulwahid*
- 715 - 725 14 The C-terminal Domain of S1 Subunit Spike Protein Enhances the Sensitivity of COVID-19 Serological Assay  
*Sabar Pambudi, Nihayatul Karimah, Ika Nurlaila, Doddy Irawan, Tika Widayanti, Jodi Suryanggono, Asri Sulfianti, Sjaikhurrizal El Muttaqien, Vivi Setiawaty, Hana Pattipeiluhu, Muhammad Luqman*
- 727 – 735 15 Determination of the Genetic Variations of Chickpea (*Cicer Arietinum* L.) Genotypes Preserved in the Jordanian Seed Genbank Using ISSR and SCoT Molecular Markers  
*Ghina J. Al-Hmoud and Emel Sözen*