

CONTENTS

Original Articles

- 565 – 575 Potential of Bioactive Compounds from Jamblang (*Syzygium Cumini*) And Hanjeli (*Coix Lacryma-Jobi*L.) Essential Oils As SARS-COV-2 Antivirus Targeting NSP5 And ACE2 Receptors
Diky Setya Diningrat , Ayu Nirmala Sari, Kusdianti , Novita Sari Harahap
- 577 – 585 Protective Effects of Secoisolariciresinol Diglucoside on Arsenic-induced Renal Damage and Oxidative Stress in Rats
Tareq Nayef AlRamadneh, Muhannad I. Massadeh, Rania Algroom, Hashem A Abu-Harirah, Kawther Faisal Amawi, Nada S. Daifalla, Hammad Khalifeh Aldal'in, Razan N. AlQuraan, Rajesh Javaraiah
- 587 – 592 Increased Virus Resistance in Transgenic Petunia with Heterologous *ZRNase II* gene
Olga Ovcharenko, Andrii Potrokhov, Daria Sosnovska, Yuliya Hoysyuk, Olha Yaroshko, Tetiana Shevchenko, Iryna Budzanivska, Volodymyr Rudas, Mykola Kuchuk
- 593 – 597 Whole Exome Sequencing in Intellectual Disability Patients Identifies *de novo* Mutations in *KCNB1*, *SHANK2*, and *SYNGAP1* Genes and a Novel Mutation in *PPP1R3F*
Asem M Alkhateeb, Miral Almomani, and Hani H Hammad
- 599 – 609 Studies on Toxicity and Peptic Ulcer Healing Potential of Crude Extract of *Osbeckia crinita* in Swiss Albino Mice
Sanchayeeta Roy, Bishnupada Roy
- 611 – 619 Comprehensive Characterization and Expression Profiling of the GATA Transcription Factor in Sugar Beet (*Beta vulgaris* L.) Suggests Their Potential Roles in Taproot Development and Biotic Stress Response
Le Thi Man, Phi Bang Cao, Thi Thanh Huyen Tran, Nguyen Quoc Trung, Dong Huy Gioi, Ninh Thi Thao, Quynh Thi Ngoc Le, Hong Viet La, Thi Xuan Quyen Vu, Ha Duc Chu
- 621 – 632 Biogenic Silver Nanoparticles by *Pseudomonas aeruginosa* Reduce Expression of Biofilm and Quorum Signaling Genes in Multi-drug Resistant *Acinetobacter baumannii*
Talar Ibrahim Hasan & Akhter Ahmed Ahmed
- 633 – 639 Effects of Reducing Browning on the Somatic Embryogenesis of *Coffea arabica*
Jarinya Hongwiangchanand Noppamart Lokkamlue
- 641 – 647 Renal Calculi Composition in Alkaptonuria: Insights on Etiology
Nesrin Riad Mwafi , Amjad Asri Al-Tarawneh, Ibrahim Naji Tarawneh , Mohannad Fayiz Alqedrh , Ahmad Ibrahim Alsbou' , Lekaa Ja'far Al Mughrabi F , Ali Mohammad Khlaifat, Muhamad Odeh Al-Limoun , Khaled Mohammad khleifat
- 649 – 654 Proximate Composition, Fatty Acid Profile, and Microplastic Contamination of Edible Odonate Larvae (Aeshnidae: *Anax* sp.) in Rice Fields
Witwisitpong Maneechan, Taeng On Prommi
- 655 – 664 Assessing the Immunomodulatory and Hepatoprotective Activities of Aqueous Tuber Extract of *Typhonium flagelliforme* (Lood) Blume in BALB/c Mouse
Wira Eka Putra, Anis Fatayatil Insani, Desi Nurhayati, Arief Hidayatullah3, Muhaimin Rifa'i
- 665 – 672 Evaluation of Antifungal Potential of *Mentha pulegium* Essential oil in Biological Control Against the Pathogen of Inflorescence Rot Disease of Date Palm (*Mauginiella scaettae*)
Hammia Hadjra, Bouatrous Yamina, Kriker Soulef, Ramazan Erenler
- 673 – 685 Cloning and Characterization of Terpene synthase 3 (*SoTPS3*) Gene from Leaves of Garden Sage (*Salvia officinalis*)
Mohammed Ali, El-ramah, F. A., Esraa A. Elsherbeny, Mohamed N.S. Suliman, Mokhtar Said Rizk
- 687 – 692 The Association between Vitamin D Deficiency, Obesity, and Insulin Resistance among the Jordanian Population
Raed A. Halalshah , Linda A. Soufan, and Hosam J. Al-Tamimi
- 693 – 698 The Growth Response and Digestive Enzyme Activity of Juvenile African Catfish (*Clarias gariepinus*) Exposed to Artificial Light at Night (ALAN) Spectral
Gabriel A. Dedeke, Festus O. Kehinde and Ife A. George
- 699 – 704 Generation and Evaluation of Gold-binding Peptide Fused Protein A
Thuy-Dung Doan-Tran, Thanh-Tan Nguyen, and Hieu Tran-Van

- 705 – 715 Evaluating the Mood and Memory-enhancing Effects of *Punicagranatum* Seeds (Pomegranate) Extract using an Animal Model
Abdelrahim Alqudah, Esam Y. Qnais, Omar Gammoh, Mohammed Alqudah
- 717 – 726 Extraction of *Klebsiella pneumoniae* and *Candida albicans* Biofilm and Studying their Cytotoxic Effects on Human Lymphocytes
Batol Imran Dheeb, Sara Najim Abdulla, Safaa AL-Deen Ahmed Shanter AL-Qaysi, Basma M. Al-Sarraj, Mohammed Sami Farhan