

CONTENTS

Original Articles

- 1 - 6 Effect of Silver Nanoparticles on Growth and Physiological Responses of Spinach (*Spinacia oleracea* L.) under Salt Stress
Emad Y. Bsoul, Sabreen A. Othman, Abdul Latief A. Al-Ghzawi and Muhannad I. Massadeh
- 7 - 12 An In-Silico Study on Allicin Compound in Garlic (*Allium Sativum*) as A Potential Inhibitor of Human Epidermal Growth Factor Receptor (Her)-2 Positive Breast Cancer
Ardyarini Dyah Savitri, Hanik Badriyah Hidayati, Lysa Veterini, Meidyta Sinantriana Widyaswari, Akbar Reza Muhammad, Ainiyah Fairus, Mohammad Qoimam Bilqisthi Zulfikar, Mega Astri, Nosa Abdellah Ramasima, Dini Putri Anggraeni, Reghina Salsabila Ayuantia Nainatika, Juliana
- 13 - 20 Oxidative and Histological Effects of Herbicide Glufosinate-Ammonium and Cyanobacteria Extracted Anatoxin-a on Land Snails *Monacha cartusiana*
Radwa M. Said, Asmaa H. Al-Badwy, Aya A. Mohamed
- 21 - 26 Concomitant Administration of L-carnitine and Performing High-Intensity Interval Training Effects on the Genes Involved in Mitochondrial Fusion and Apoptosis in Rat Liver
Beydolah Shahouzehi, Yaser Masoumi-Ardakani, Hossein Fallah, Soheil Aminizadeh
- 27 - 34 Species Diversity of Freshwater Microalgae in Dramaga, Bogor Based on Morpho-ecological Identification between Low and High Light Intensity Environment
Miftahul Huda Fendiyanto, Mentari Putri Pratami, Rizky Dwi Satrio, Isna Arofatum Nikmah, Nastiti Intan Permata Sari, Mo Awwanah, Nadya Farah, Nurhadiyanta
- 35 - 40 Calcium Nitrate Toxicity on Rat Liver and Kidney Functions: A Biochemical and Histopathological Evaluation
Araar Samia, Khaldi Fadila, Sayah Sarra, Chaib Sakina and Gheid Abdelhak
- 41 - 53 *Astragalus sarcocolla* Gum-mediated a Novel Green-synthesis of Biologically Active Silver-Nanoparticles with Effective Anticancer and Antimicrobial activities
Abeer A. Abd El Aty, Shifaa O. Alshammari, Reem M. Alharbi, Ahmed AF. Soliman
- 55 - 61 Localized Depletion of *Drosophila Upf1* and *Upf2* in the Central Nervous System Leading to Anatomical Defects of the CNS of the Embryo and Larva
Sanusi Ahmed Jega, Ahmed Adebawole Adedeji, Marta Vicente-Crespo
- 63 - 71 The ability of *Lactobacillus helveticus -13 (Lh-13)* Isolate Isolated from Lactic Acid Products to form A biofilm by Applying Modern Microscopy Methods
Zhanerke Amirkhanova, Saule Akhmetova, Samat Kozhakhmetov, Almagul Kushugulova, Rahat Bodeeva, Leila Ahvlediani, Anara Turmukhambetova
- 73 - 84 Optimization, Characterization of Newly Immobilized Mannanase on Activated Chitosan Beads and Its Applications
Siham, A. Ismail; Shaimaa, A. Nour; Mohamed, E. Hassan; Nivien, A. Abosereh; Om Kalthoum, H. Khattab, Amany; A. Abo-Elnasr; Mohamed M. I. Helal and Amal, M. Hashem
- 85 - 92 Optimization of the Process of Reducing the Bitterness of Bitter Melon with Response Surface Methodology
Ummi Rohajatien, Teti Estiasih, Mazarina Devi, Soenar Soekopitojo, Aly Imron Norfezah Binti Md Nor4, Luqman Ali Shah, Roy Hendroko Setyobudi and Damat Damat
- 93 - 103 Therapeutic Potential of Ginger Extract on the Embryotoxicity and Nephrotoxicity Induced by Labetalol in Rat Fetuses
Hend T. El-Borm, Marwa S. Gobara, Gamal M. Badawy
- 105 - 115 Anti-nephrolithiatic Evaluation of Partitioned Ethanol Extract of *Calotropis procera* Leaf in Wistar Rats
Nafiu, Mikhail Olugbemi, Ogunisola, Ibukun James
- 117 - 123 The Antioxidative, Anticancer and Hepatoprotective of Quercetin Nanoparticles *In-vitro* and *In-vivo*
Uzma A Faridi, Nahla S Zidan, Fahad M. Almutairi, Adel I. Alalawy, Hebatallah H. Atteia, Yahya S. Al-Awthman, Md. Qussen Akhtar, Mohamed I. Sakran

- 125 – 130 Cultivation of Edible Ectomycorrhizal Mushrooms (*Phelobopus portentosus*) Associated with *Sesbania javanica* Miq
Thalisa Yuwa-amornpitak, Luchai Butkhup, Pa-Nag Yeunyaw, Kannika Chookietwattana
- 131 – 136 Detection and Epidemiological Features of Human Coronaviruses in Patients with Acute Gastroenteritis in Northern Jordan
Mamdoh M. Meqdam, Malak I. Abusamha, Asem M. Alkhateeb, Ziad M. Bataineh, Khadija F. Maho, and Ayat M. Gogazeh
- 137 – 147 Assessment on Drought Stress Resistance, Salinity Endurance, and Indole Acetic Acid Production Potential of Dryland-Isolated Bacteria
Henik Sukorini, Ellynda Retno Tiana Putri, Erny Ishartati, Sufianto Sufianto, Roy Hendroko Setyobudi, Nguyen Ngoc Huu, and Sawita Suwannarat
- 149 – 155 Epstein-Barr Virus Genotypes and Phylogeny among Cancer Patients in Sana'a City, Yemen
Anas Ahmed Al-Mahbashi, Abdul-Raof Alshawkany, Khalid Mohammed Naji, Saeed Munassar Alghalibi, Qais Yusuf Abdullah, Eshraq Ahmed Al-Khalqi
- 157 – 164 Leaf Blade Growth and Development in Red, Pink, and Yellow Petiole Cultivars of the Swiss Chards Grown in Floating Culture System
Benyamin Lakitan, Susilawati Susilawati, Andi Wijaya, Rofiqoh Purnama Ria, Strayker Ali Muda
- 165 – 170 Effects of Dietary Lysine for River Catfish Juveniles on Protein Digestibility and Body Composition
Diana Rachmawati, Istiyanto Samidjan, Dewi Nurhayati, Putut Har Riyadi, Roy Hendroko Setyobudi, and Olga Anne