

Contents

A Review on Metabolic Paradoxes and their Impact on Metabolism

Significance of the Estrogen Hormone and Single Nucleotide Polymorphisms in the Progression of Breast Cancer among Female

Detection of the *aadA1* and *aac (3)-IV* resistance genes in *Acinetobacter baumannii*

Chromogenic in Situ-Hybridization of HPV16/18 DNA in Relation to the Over-Expressed Protein of P73-Gene in Tissues from a Group of Thyroid Carcinoma

Genetic Analysis of Alpha-Thalassemia Mutations in Thi-Gar Province, Iraq

Evaluation of the Effect of Alcoholic Extract of *Laurus Nobilis* Leaves on Blood Biochemical Parameters and Histological Changes in the Liver and Kidney among Female Wistar Rats Treated with Depakene (Sodium Valproate)

Comparison of the effect of Gonadotropin-Releasing Hormone and Human Chorionic Gonadotropin on Reproductive Performance of Romanov Ewes During the Natural Breeding Season

Histological Changes in Ovary Treated with Dexamethasone and Cefotaxime Sodium

Concurrent Occurrence of Infectious Bursal Disease and Multicausal Respiratory Infections Caused by Newcastle Disease and Avian Metapneumovirus in Broilers

Extra-Gastrointestinal Manifestation and *Helicobacter pylori* Infection

Limb Gait Score of Femur Fracture Fixated by Intramedullary Pinning in Dogs

Alpha-Hemoglobin Stabilizing Protein Gene Polymorphism (rs4499252 A/G) and its Association with Beta-Thalassemia Major in Iraqi Patients

Heavy Metal Resistance Ability of *Pseudomonas* Species Isolated from Sludge and Sewage in Iraq

Prognostic Value of Admission-to-Discharge Change in Integral Congestion Assessment for Predicting Adverse Outcomes in Patients with Decompensated Heart Failure

A Prognostic Impact of Interleukin 17 (IL-17) as an Immune-Marker in Patients with Bladder Cancer

Biochemical Evaluation of Antioxidant Enzyme Activities and Lipid Peroxidation Level Associated with Liver Enzymes in Patients with Fascioliasis

Evaluation of Methylation Panel in the Promoter Region of *p16^{INK4a}*, *RASSF1A*, and *MGMT* as a Biomarker in Sputum for Lung Cancer

Effect of *Moringa oleifera* Leaves against Hepatotoxicity Induced by Bisphenol A

Phylogenetic Diversity of *Dermanyssus gallinae* (Dermanyssidae) based on Mitochondrial Cytochrome Oxidase-1 Gene Sequence Collected from Different Bird Species in Iran

Assessment of some Physiological Biomarkers in COVID-19 Patients in Thi-Qar, Iraq

Serological and Histopathological Investigation of *Chlamydia abortus* in Aborted Ewes in Wasit, Iraq

Prevention of Cognitive Frailty in Patients of Older Age Groups after Open-Heart Surgery under Cardiopulmonary Bypass

Serological and Histological Evaluation of the Effect of Honeybee Venom on Pancreas and Liver in Diabetic Mice

Detection and Isolation of Camelpox Virus in Wasit Province, Iraq

Vitamin D Level and its Relation with the Newly Diagnosed Diabetic Neuropathy in Women with Hypothyroidism

Prevalence and Antibiotic Resistance Pattern of Methicillin-Resistant *Staphylococcus aureus* Isolated from Iraqi Hospitals

Biological Activity of Extract *Solanum nigrum* on some Biological Aspects of the Blue Fly *Chrysomya albiceps* (Diptera: Calliphoridae)

The Influence of Rumen-Protected Choline and α -tocopherol Supplementation on Early Lactating Dairy Cows Metabolism

Effect of Eggshell Nanoparticles on Healing Bone Fracture

Molecular Detection of *bla*_{SHV-1a} Gene in *Klebsiella pneumoniae* Isolated from Urinary Tract Infections, Najaf, Iraq

Detection of Clinical and Subclinical Foot and Mouth Disease Virus in Cattle in Al-Najaf Province

Evaluation of IgM and IgG in COVID-19 Recovered Patients in Iraq

Hepatic Impact of Different Concentrations of *Hibiscus rosa* Zinc Oxide Nanoparticles on Rats

Ovine Pasteurellosis Vaccine: Assessment of the Protective Antibody Titer and Recognition of the Prevailing Serotypes

Investigation of *in vitro* Cytotoxicity of *Chelidonium majus* against Leishmania Major

Analysis of Nucleotide Sequences Similarity and Protein Prediction of Some Resistance Genes in *Escherichia coli* Isolated from Iraqi Patients with Urinary Tract Infections

The Potential Benefits of Legumes Germ and Cereal Grains on Roosters' Reproductive Performance

Effect of Daily Rhythms of Cortisol Secretion on the Rate of Aging in Men

Effect of Betaine on Blood Parameters Related to the Iron Status in Acrylamide-Treated Rats

Effect of Palm Pollen and Pomegranate Peel Supplementation on Sperm Development in Male Rabbits

Molecular Study of Urease *ureR* Gene of *Proteus mirabilis* Isolated from Urinary Tract Infections, Najaf, Iraq

Molecular Survey of *Brucella melitensis* Field Isolates using Sequence-Based PCR of Outer Membrane Protein 31

Presence of *Escherichia coli* O157:H7 in Dairy Farms located in Najaf, Baghdad, Kirkuk, and Erbil, Iraq

Evaluating the Level of Serum IL-23 in Brucellosis Infection by ELISA and Investigating its Relationship in Cases with Failure to Respond to Treatment

Effect of Coffee Silverskin Enriched Diet to Enhance the Immunological and Growth Parameters of Nile Tilapia (*Oreochromis niloticus*)

Investigation of the Behavioral Model of Suppliers of Raw Materials for Biological Products with a System Dynamics Approach (Case study: Razi Vaccine and Serum Research Institute)

Effect of Oregano Essential Oil Combined with Live and Killed Newcastle Disease Vaccines on Immune Response in Broilers Chicks in Erbil, Iraq: A Comparative Study

Association between Atherogenic Index and Cholesterol to HDL Ratio in COVID-19 Patients During the Initial Phase of Infection

Antimicrobial Activity Assay of Liposomal Lipopolysaccharide Extracted from *Escherichia coli*

Explanation of COVID-19 Mortality Using Artificial Neural Network Based on Underlying and Laboratory Risk Factors in Ilam, Iran

Reviewers' Name

Mojahedi, Zohreh

Motamed, Najmeh

Pilehchian Langroudi, Reza

Safaei, Mahdi

Salabi, Fatemeh

Salemi, Ali

Shojaei, Mohamad

Soleimani, Sina

Tabatabaeizadeh, Seyed-Elias

Tahoori, Fatemeh

Tebianian, Majid

Vazirianzadeh, Babak

Zahmatkesh, Azadeh

Zendehdel, Morteza

Abdigoudarzi, Mohammad

Bamdad, Taravat

Bashashati, Mohsen

Basir, Zahra

Dabaghian, Mehran

Dadar, Maryam

Dadashpour Davachi, Navid

Golchinfar, Fariba

Habibi, Gholamreza

Hassanpour, Shahin

Jafari, Hedieh

Khalesi, Bahman

Madani, Rasool

Madani, Seyed Ahmad

Masoudi, Reza