**جامعة الزقازيق**

**كلية الطب**

**قسم الكيمياء الحيوية الطبية**

**Evaluation of Medical Biochemistry Department Research Fields (2018-2021)**

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|  | | | | | **مجالات**  **البحث العلمى لجامعة الزقازيق** |
| **العدد الكلى** | **دولية** | **محلية** | **الابحاث المشارك بها قسم الكيمياء الحيوية** | **المجال الفرعى** | **المجال الرئيسى** |
| **26** | **26** |  | * **Human Umbilical cord blood- mesenchymal stem cells transplantation renovates the ovarian surface epithelium in a rat model of premature ovarian failure** * **Breast Milk MSCs Transplantation Attenuates Male Diabetic Infertility Via Immunomodulatory Mechanism in Rats** * **Anti-Inflammatory and Immunomodulatory Role of Bone Marrow-Derived MSCs in Mice with Acute Lung Injury** * [**Assessment of Serum MicroRNA-21 Gene Expression for Diagnosis and Prognosis of Colorectal Cancer.**](https://pubmed.ncbi.nlm.nih.gov/31482406/) * **MicroRNA-21 as an Early Marker of Nephropathy in Patients with Type 1 Diabetes.** * [**Ameliorative role of curcumin on copper oxide nanoparticles-mediated renal toxicity in rats: An investigation of molecular mechanisms.**](https://pubmed.ncbi.nlm.nih.gov/32738191/) * [**Carotid plaques in adult rheumatoid arthritis patients; association with paroxonase 1 enzymatic activity and Q192R paroxonase 1 gene polymorphism.**](https://pubmed.ncbi.nlm.nih.gov/32472296/) * [**Early intervention with breast milk mesenchymal stem cells attenuates the development of diabetic-induced testicular dysfunction via hypothalamic Kisspeptin/Kiss1r-GnRH/GnIH system in male rats.**](https://pubmed.ncbi.nlm.nih.gov/31672553/) * **Plasma MicroRNA-133a as a potential biomarker for acute coronary syndrome.** * [**Visfatin and SREBP-1c mRNA Expressions and Serum Levels Among Egyptian Women with Polycystic Ovary Syndrome.**](https://pubmed.ncbi.nlm.nih.gov/32460545/) * [**Circulating long non-coding RNA GAS5 and SOX2OT as potential biomarkers for diagnosis and prognosis of non-small cell lung cancer.**](https://pubmed.ncbi.nlm.nih.gov/31077615/) * [**Intercellular adhesion molecule-1 expression and serum levels as markers of pre-clinical atherosclerosis in polycystic ovary syndrome.**](https://pubmed.ncbi.nlm.nih.gov/31629408/) * [**RASSF1A and SOCS1 genes methylation status as a noninvasive marker for hepatocellular carcinoma.**](https://pubmed.ncbi.nlm.nih.gov/30689554/) * [**Genetic and epigenetic modifications of adiponectin gene: Potential association with breast cancer risk.**](https://pubmed.ncbi.nlm.nih.gov/31415715/) * [**Mesenchymal Stem Cells: a Promising Therapeutic Tool for Acute Kidney Injury.**](https://pubmed.ncbi.nlm.nih.gov/30976980/) * [**Association of 584C/T polymorphism in endothelial lipase gene with risk of coronary artery disease.**](https://pubmed.ncbi.nlm.nih.gov/31020688/) * [**DNA repair gene (XRCC3) polymorphisms and its association with ovarian carcinoma in Egyptian patients**](https://08101o97u-1105-y-https-www-sciencedirect-com.mplbci.ekb.eg/science/article/pii/S221454001930043X) * [**Promoter methylation and expression of DNA repair genes MGMT and ERCC1 in tissue and blood of rectal cancer patients.**](https://www.ncbi.nlm.nih.gov/pubmed/29080834) * [**Mechanistic effect of human umbilical cord blood derived mesenchymal stem cells on the submandibular salivary gland in ovariectomized rats.**](https://www.ncbi.nlm.nih.gov/pubmed/29035685) * **Fluoxetine pretreatment enhances neurogenic, angiogenic and immunomodulatory effects of MSCs on experimentally induced diabetic neuropathy.** * **Mechanistic effects of mesenchymal and hematopoietic stem cells: New therapeutic targets in myocardial infarction.** * [**B2 adrenergic receptor gene polymorphism effect on childhood asthma severity and response to treatment.**](https://pubmed.ncbi.nlm.nih.gov/29658513/) * **Therapeutic potential effect of bone marrow-derived mesenchymal stem cells on chronic liver disease in murine Schistosomiasis Mansoni.** * [**Comparison between the effect of human Wharton's jelly-derived mesenchymal stem cells and levetiracetam on brain infarcts in rats.**](https://pubmed.ncbi.nlm.nih.gov/30171723/) * [**Morphological and Biochemical Features of Cerebellar Cortex After Exposure to Zinc Oxide Nanoparticles: Possible Protective Role of Curcumin.**](https://pubmed.ncbi.nlm.nih.gov/29575794/) * [**Role of adipose tissue derived stem cells differentiated into insulin producing cells in the treatment of type I diabetes mellitus.**](https://pubmed.ncbi.nlm.nih.gov/29452233/) | * **Stem cell** * **Molecular**   **biology and their applications.**   * **Nanoparticles and its applications** | **التقنيات الحديثة و تطبيقاتها فى مجالات العلوم المختلفة** |
| **16** | **16** |  | * **Glutathione S TransferaseT1 Gene Polymorphism and its Promoter Methylation are associated with Breast Cancer Susceptibility in Egyptian women** * **Teaching bioethics for under graduate medical students** * **Etiquette of Virtual Learning for Medical Student** * [**Clinical significance of plasma MMP-2 and MMP-9 levels as biomarkers for tumor expression in breast cancer patients in Egypt.**](https://pubmed.ncbi.nlm.nih.gov/31820313/) * [**SATB1 and Her2 as predictive molecular and immunohistochemical markers for urothelial cell carcinoma of the bladder.**](https://pubmed.ncbi.nlm.nih.gov/33285627/) * [**Promoter methylation and expression of intercellular adhesion molecule 1 gene in blood of autoimmune thyroiditis patients.**](https://pubmed.ncbi.nlm.nih.gov/31359380/) * [**Osteopontin and interleukin-17A genes polymorphisms in Egyptian systemic lupus erythematosus patients: A relation to disease activity and severity.**](https://pubmed.ncbi.nlm.nih.gov/30898714/) * [**miR-146a and miR-196a-2 genes polymorphisms and its circulating levels in lung cancer patients.**](https://pubmed.ncbi.nlm.nih.gov/31127299/) * [**Circulating Cell Free Nuclear DNA, Mitochondrial DNA and Global DNA Methylation: Potential Noninvasive Biomarkers for Breast Cancer Diagnosis.**](https://pubmed.ncbi.nlm.nih.gov/31516038/) * **Serum miRNA-27a and miRNA-18b as potential predictive biomarkers of hepatitis C virus-associated hepatocellular carcinoma.** * [**Evaluation of interleukin-18 in children with steroid-sensitive nephrotic syndrome before and after using levamisole.**](https://pubmed.ncbi.nlm.nih.gov/29970735/) * **Tumor necrosis factor alpha gene polymorphisms and haplotypes in Egyptian children with nephrotic syndrome.** * [**Cerebral metabolic alterations and cognitive dysfunction in children with chronic kidney disease using magnetic resonance spectroscopy and Wechsler intelligence scale.**](https://pubmed.ncbi.nlm.nih.gov/28621826/) * [**A Cross-sectional Study of Two Chemotherapy Protocols on Long Term Neurocognitive Functions in Egyptian Children Surviving Acute Lymphoblastic Leukemia.**](https://pubmed.ncbi.nlm.nih.gov/30381081/) * [**Study of p16 promoter methylation in Egyptian colorectal cancer patients.**](https://pubmed.ncbi.nlm.nih.gov/30485512/) * [**Diagnostic and prognostic value of serum miR-15a and miR-16-1 expression among egyptian patients with prostate cancer.**](https://pubmed.ncbi.nlm.nih.gov/29522280/) | **-Common**  **Health problems**  **-Tumors**  **-Allergic and immunological**  **disorders**  **-Imaging and interventional techniques in diagnosis and**  **Treatment** |
| **13** | **13** |  | * **Dietary Rice Bran-Modified Human Gut Microbial Consortia Confers Protection against Colon Carcinogenesis Following Fecal Transfaunation** * [**Gene polymorphisms of Patatin-like phospholipase domain containing 3 (PNPLA3), adiponectin, leptin in diabetic obese patients.**](https://pubmed.ncbi.nlm.nih.gov/32544194/) * [**Ameliorative effect of combined low dose of Pioglitazone and omega-3 on spermatogenesis and steroidogenesis in diabetic rats.**](https://pubmed.ncbi.nlm.nih.gov/31709631/) * **Bifidobacterium longum -fermented rice bran and rice bran supplementation affects the gut microbiome and metabolome.** * **Rice bran supplementation modulates growth, microbiota and metabolome in weaning infants: a clinical trial in Nicaragua and Mali** * [**MicroRNA-21 as an Early Marker of Nephropathy in Patients with Type 1 Diabetes.**](https://pubmed.ncbi.nlm.nih.gov/32015595/) * [**Relationship Between Heat Shock Protein Expression and Obesity With and Without Metabolic Syndrome.**](https://pubmed.ncbi.nlm.nih.gov/31517511/) * [**Protective effects of curcumin and silymarin against paracetamol induced hepatotoxicity in adult male albino rats.**](https://pubmed.ncbi.nlm.nih.gov/31279711/) * [**Vitamin K2 alleviates type 2 diabetes in rats by induction of osteocalcin gene expression.**](https://www.ncbi.nlm.nih.gov/pubmed/29429532) * [**Trace elements and oxidative stress in children with type 1 diabetes mellitus.**](https://pubmed.ncbi.nlm.nih.gov/29618936/) * [**Study of Antichromatin Antibodies As A Marker of Lupus Activity and Lupus Nephritis.**](https://pubmed.ncbi.nlm.nih.gov/30243003/) * [**Gene polymorphisms of Patatin-like phospholipase domain containing 3 (PNPLA3), adiponectin, leptin in diabetic obese patients.**](https://pubmed.ncbi.nlm.nih.gov/32544194/) * **Effect of negative pressure wound therapy on molecular markers in diabetic foot ulcers.** | **-Nutritional**  **disorders and**  **obesity** |
| **5** | **5** |  | * **Assessment of serum aflatoxin B1 levels in neonatal jaundice with glucose-6-phosphate dehydrogenase deficiency: a preliminary study** * **Assessment of melatonin and cortisol levels in sickle cell anemia children** * **Evaluation of osteopontn ,-telopeptide of type 1 collagen and metalloprotein in postmenopausal Egyptian women with osteoporosis** * [**Diagnostic and prognostic significance of serum miRNA-146-a expression in Egyptian children with sepsis in a pediatric intensive care unit.**](https://pubmed.ncbi.nlm.nih.gov/31693774/) * [**The association of IL-33 and Foxp3 gene polymorphisms with recurrent pregnancy loss in Egyptian women.**](https://pubmed.ncbi.nlm.nih.gov/29602154/) | **-Genetic and**  **developmental**  **disorders**  **-Reproductive**  **and pregnancy**  **related**  **disorders** |
| **5** | **5** |  | * **In Silico/In Vitro Hit-to-Lead Methodology Yields SMYD3 Inhibitor That Eliminates Unrestrained Proliferation of Breast Carcinoma Cells** * **Non-Targeted Metabolomics Signature in the Plasma and Bone Marrow of Patients with Long Bone Injuries** * [**Beneficial effects of metformin on muscle atrophy induced by obesity in rats.**](https://pubmed.ncbi.nlm.nih.gov/30320911/) * [**Role of a novel circulatory RNA-based biomarker panel expression in ovarian cancer.**](https://pubmed.ncbi.nlm.nih.gov/31520466/) * [**Circulating methylated RUNX3 and SFRP1 genes as a noninvasive panel for early detection of colorectal cancer.**](https://pubmed.ncbi.nlm.nih.gov/31524773/) | **-New era and**  **Advanced techniques in medicine** |
| **-** | **-** |  |  | **-Chemicals, and drugs Pollution** |
| **65** | **65** |  |  |  |  |