**جامعة الزقازيق**

 **كلية الطب**

 **قسم الكيمياء الحيوية الطبية**

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

|  |  |
| --- | --- |
|  | **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** |  |  |  |  |