

## قائمة بالبحوث التطبيقية للسادة أعضاء هيئة التدريس من عام 2018 وحتى الآن

م	إسم عضو هيئة التدريس	القسم العلمي	الدرجة العلمية	البحث التطبيقي الأول	البحث التطبيقي الثاني	البحث التطبيقي الثالث	البحث التطبيقي الرابع
1.	أ.د/ حسين الصباغ	أستاذ	الكيمياء الدوائية	Development of an Inexpensive, sensitive and green HPLC method for the simultaneous determination of brivaracetam, piracetam and carbamazepine; application to pharmaceuticals and human plasma.	A novel application of deep eutectic solvents in quantitative nuclear magnetic resonance using grey relational analysis for multi-response optimization.	Antibacterial, antibiofilm and molecular modeling study of some antitumor thiazole based chalcones as a new class of DHFR inhibitors.	Multiobjective optimization of microemulsion- thin layer chromatography with image processing as analytical platform for determination of drugs in plasma using desirability functions.
2.	أ.د/ ممدوح محمد الششتاوي	أستاذ	الكيمياء الحيوية	Dantrolene Potentiates the Antineoplastic Effect of Sorafenib in Hepatocellular Carcinoma via Targeting Ca+2/PI3K Signaling Pathway.	Hesperetin upregulates Fas/FasL expression and potentiates the antitumor effect of 5-fluorouracil in rat model of hepatocellular carcinoma.	Expression of thioredoxin and glutaredoxin in experimental hepatocellular carcinoma—Relevance for prognostic and diagnostic evaluation.	Calcium channel $\alpha 2\delta 1$ subunit as a novel biomarker for diagnosis of hepatocellular carcinoma.
3.	أ.د/ ليلي احمد عيسى	أستاذ	الكيمياء الحيوية	Niclosamide loaded polymeric micelles ameliorate hepatocellular carcinoma in vivo	Polo like kinase1as a promising diagnostic biomarker and potential	P coumaric acid alleviates experimental diabetic nephropathy through	Modulating effects of omega-3 fatty acids and pioglitazone combination

on insulin resistance through toll-like receptor4 in type 2diabetes mellitus	modulation of Toll like receptor-4 in rats	therapeutic target for hepatocellular carcinoma	through targeting want and Notch pathways				
		Effects of Lysozyme, Proteinase K, and Cephalosporins on Biofilm Formation by Clinical Isolates of Pseudomonas aeruginosa	Studies on isolation and inhibitory effect on food-borne pathogens from raw milk in Egypt by natural oils	الميكروبيولوجيا و المناعة	أستاذ	أ.د/ رشا محمد فتحى بروه	4.
	Biosynthesis of Ag, Se, and ZnO nanoparticles with antimicrobial activities against resistant pathogens using waste isolate Streptomyces enissocaesilis	Antimicrobial and Antibiofilm Activities of Probiotic Lactobacilli on Antibiotic-Resistant Proteus mirabilis	Enhanced Biocatalytic Activity of Recombinant Lipase Immobilized on Gold Nanoparticles	الميكروبيولوجيا و المناعة	أستاذ	أ.د/ مني ابراهيم عوض شعبان	5.
Erlotinib can halt adenine induced nephrotoxicity in mice through modulating ERK1/2, STAT3, p53 and apoptotic pathways	Gum Acacia mitigates diclofenac nephrotoxicity by targeting monocyte chemoattractant protein-1, complement receptor-1 and pro-apoptotic pathways	Retinoic acid modulates IL-4, IL-10 and MCP-1 pathways in immune mediated hepatitis and interrupts CD4+ T cells infiltration	Protection against nonalcoholic steatohepatitis through targeting IL-18 and IL-1alpha by luteolin	الأدوية و السموم	أستاذ مساعد	أ.م.د/ نشوى محمد عبد الفتاح ابو السعد	6.
Estimation of nizatidine gastric nitrosatability and product toxicity via an integrated approach	Complementary HPLC, in silico toxicity, and molecular docking studies for investigation of the	Graphene quantum dots as a nanoprobe for analysis of o- and p-nitrophenols in environmental water adopting conventional	High-temperature liquid chromatography for evaluation of the efficiency of multiwalled carbon nanotubes as nano	الكيمياء التحليلية	أستاذ مساعد	أ.م.د/ رانيا نبيه محمد الشاهيني	7.



combining HILIC, in silico toxicology, and molecular docking	potential influences of gastric acidity and nitrite content on paracetamol safety	fluorometry and smartphone image processing-assisted paper-based analytical device. In-depth study of sensing mechanisms	extraction beds for removal of acidic drugs from wastewater. Greenness profiling and comprehensive kinetics and thermodynamics studies				
Inhibition of Bruton tyrosine kinase by acalabrutinib dampens lipopolysaccharide/galactosamine-induced hepatic damage	Serum Soluble Fibrinogen-Like Protein 2 Represents a Novel Biomarker for Differentiation Between Acute and Chronic Egyptian Hepatitis B Virus-Infected Patients	Sesamol Upregulates Death Receptors and Acts as a Chemosensitizer in Solid Ehrlich Carcinoma Model in Mice	Amelioration effect of black seed oil against high-fat diet-induced obesity in rats through Nrf2/HO-1 pathway	الكيمياء الحيوية	أستاذ مساعد	أ.م.د/ محمد السيد أحمد المسيرى	8
Inhibition of Bruton tyrosine kinase by acalabrutinib dampens lipopolysaccharide/galactosamine-induced hepatic damage	Montelukast ameliorates Concanavalin A-induced autoimmune hepatitis in mice via inhibiting TNF- $\alpha$ /JNK signaling pathway	Sitagliptin ameliorates thioacetamide-induced acute liver injury via modulating TLR4/NF-KB signaling pathway in mice	Venlafaxine mitigates cisplatin-induced nephrotoxicity via down-regulating apoptotic pathway in rats	الأدوية و السموم	أستاذ مساعد	أ.م.د/ داليا حسن الكاشف	9
Solution NMR backbone assignment reveals interaction-free tumbling of human lineage-specific Olduvai protein domains	Recognition of non-CpG repeats in Alu and ribosomal RNAs by the Z-RNA binding domain of ADAR1 induces A-Z junctions	Targeting tumor-derived NLRP3 reduces melanoma progression by limiting MDSCs expansion	Extending the Applicability of Exact Nuclear Overhauser Enhancements to Large Proteins and RNA	الكيمياء العضوية	مدرس	د/ مرقص عادل ابراهيم حنين	10



		CHEMICAL, BIOCHEMICAL, GENETICS, AND PHYSIOLOGICAL ROLE OF SECONDARY METABOLITES OF MEDICINAL PLANTS VIA UTILIZATION OF PLANT HISTOCHEMICAL TECHNIQUES	Plant Histochemistry: A Versatile and Indispensable Tool in Localization of Gene Expression, Enzymes, Cytokines, Secondary Metabolites and Detection of Plants Infection and Pollution	العقاقير	مدرس	د/ ولاء محمد صفوت سعد الدين محمد أبو المعاطي	11
	Formulation and Evaluation of Pluronic F127 Thermosetting Gels Containing Atorvastatin Calcium as Novel Ophthalmic Delivery Systems	Ocular Inserts of Voriconazole-Loaded Proniosomal Gels: Formulation, Evaluation and Microbiological Studies	Chitosan-Coated PLGA Nanoparticles for Enhanced Ocular Anti-Inflammatory Efficacy of Atorvastatin Calcium	الصيدلانيات	مدرس	د /جرمين نظير سلامه جرجس	12
The dual PPAR- $\alpha/\gamma$ agonist saroglitazar ameliorates thioacetamide-induced liver fibrosis in rats through regulating leptin	Evaluation of the therapeutic effects of mycophenolate mofetil targeting Nrf-2 and NLRP3 inflammasome in acetic acid induced ulcerative colitis in rats	Saroglitazar attenuates renal fibrosis induced by unilateral ureteral obstruction via inhibiting TGF- $\beta$ /Smad signaling pathway	Tiron protects against nicotine-induced lung and liver injury through antioxidant and anti-inflammatory actions in rats in vivo	الأدوية و السموم	مدرس	د / ميرهان احمد نظمي مقلد	13
Detection of hydrogen sulfide in water samples	A Smart Advanced Chemiluminescence-	Design of a dual functionalized chemiluminescence ultrasensitive	Quinone-based antibody labeling reagent for enzyme-free	الكيمياء التحليلية	مدرس	د/ محمود حامد حمود حامد المغربي	14

with 2-(4-hydroxyphenyl)-4,5-di(2-pyridyl)imidazole-copper(II) complex using environmentally green microplate fluorescence assay method	Sensing Platform for Determination and Imaging of the Tissue Distribution of Natural Antioxidants	probe for quinones based on their redox cycle. Application to the determination of doxorubicin in lyophilized powder and human serum	chemiluminescent immunoassays. Application to avidin and biotinylated anti-rabbit IgG labeling				
Selective cytotoxic activity and protective effects of sodium ascorbate against hepatocellular carcinoma through its effect on oxidative stress and apoptosis in vivo and in vitro	Fucoidan Ameliorates Hepatocellular Carcinoma Induced in Rats: Effect on miR143 and Inflammation	The interplay of the inhibitory effect of nifuroxazide on NF-KB/STAT3 signaling attenuates acetic acid-induced ulcerative colitis in rats	Radio-sensitizing effect of a cocktail of phytochemicals on HepG2 cell proliferation, motility and survival	الكيمياء الحيوية	مدرس	د / يسرا محمد عبد الحافظ الفار	15
P-Coumaric acid alleviates experimental diabetic nephropathy through modulation of Toll like receptor-4 in rats	Hepatoprotective effect of allicin against acetaminophen-induced liver injury: Role of inflammasome pathway, apoptosis, and liver regeneration	Cardio-protective impact of gabapentin against doxorubicin-induced myocardial toxicity in rats; emphasis on modulation of inflammatory-apoptotic signaling	Homocysteine Induces Inflammation in Retina and Brain	الكيمياء الحيوية	مدرس	د / يارا عادل سمرة	16
Modulation of p75NTR using LM11A-31 prevents diabetes-induced retinal vascular permeability via	Adipose stem cells and their paracrine factors are therapeutic for early retinal complications of	Modulation of p75NTR on mesenchymal stem cells increases their vascular protection in retinal ischemia-reperfusion mouse model.	Concentrated Conditioned Media from Adipose Tissue Derived Mesenchymal Stem Cells Mitigates Visual Deficits	الأدوية و السموم	مدرس	د / سالى لطفى الدمراوى الشاعر	17



inhibition of inflammation and RhoA kinase pathway.	diabetes in the Ins2Akita mouse.		and Retinal Inflammation Following Mild Traumatic Brain Injury.				
Amelioration effect of black seed oil against high-fat diet-induced obesity in rats through Nrf2/HO-1 pathway	The molecular mechanism underlining the preventive effect of vitamin D against hepatic and renal acute toxicity through the Nrf2/BACH1/HO-1 pathway	Omega-3 fatty acids protect against acetaminophen-induced hepatic and renal toxicity in rats through HO-1-Nrf2-BACH1 pathway	Glycyrrhizin ameliorates high fat diet-induced obesity in rats by activating Nrf2 pathway	الكيمياء الحيوية	مدرس	د/ ندى فوزى ابراهيم أبوالمجد غازي	18
Kynurenine inhibits autophagy and promotes senescence in aged bone marrow mesenchymal stem cells through the aryl hydrocarbon receptor pathway	Age-related increase of kynurenine enhances miR29b-1-5p to decrease both CXCL12 signaling and the epigenetic enzyme Hdac3 in bone marrow stromal cells	Kynurenine Promotes RANKL-Induced Osteoclastogenesis In Vitro by Activating the Aryl Hydrocarbon Receptor Pathway	The co-chaperone UNC45A is essential for the expression of mitotic kinase NEK7 and tumorigenesis	الكيمياء الحيوية	مدرس	د / ندى حسن محمد عيسى	19
Two novel UPLC methods utilizing two different analytical columns and different detection approaches for the simultaneous analysis of velpatasvir and sofosbuvir:	Stability Indicating 1st Derivative Synchronous Spectrofluorimetric Method for the Determination of the Newly Approved Antiviral Drug Daclatasvir in Presence of Its Oxidative	Selective and sensitive spectrofluorimetric quantification of velpatasvir in presence of sofosbuvir. Application to their co-formulated tablet.	Simultaneous determination of naltrexone and bupropion in their co-formulated tablet utilizing green chromatographic approach with application to human urine.	الكيمياء التحليلية	مدرس	د/ رانيا محمد عبد النبي سعد الدين الجمل	20



application to their co-formulated tablet	and Photolytic Degradation Products: Application to Tablet Dosage Form.						
Modulating effects of omega-3 fatty acids and pioglitazone combination on insulin resistance through toll-like receptor 4 in type 2 diabetes mellitus	Silymarin and caffeine combination ameliorates experimentally-induced hepatic fibrosis through down-regulation of LPAR1 expression	The molecular mechanism underlining the preventive effect of vitamin D against hepatic and renal acute toxicity through the NrF2/BACH1/HO-1 pathway	Omega-3 fatty acids protect against acetaminophen-induced hepatic and renal toxicity in rats through HO-1-Nrf2-BACH1 pathway	الكيمياء الحيوية	مدرس	د/ سلمى مسعد عراقي نصر	21

وكيل الكلية للدراسات العليا والبحوث

[ أ.د/ خالد بشير شعبان سليم ]