

Tuesday 13th February 2024

Plenary Lectures No 1, 2 (New Hall)

Plenary 1: New insights on Air Pollution & Climate Change over the Eastern Mediterranean & Middle East (EMME) region.

Prof. Dr. Jean Sciare

Plenary 2: Energy, water and environment nexus at CMRDI, Egypt.

Prof. Dr. Mohamed Mohamed Rashad

Plenary Lectures No 3, 4 (Hall G)

Plenary 3: Recent trends and applications of metabolomics in herbal drug analysis, authentication, process monitoring and gut interactions.

Prof. Dr. Mohamed Ali Farag

Plenary 4: Electrosynthesis of Eco-Friendly Electrocatalyst Based on Conducting Polymers and Metal Oxide: From Sensing to Energy Application.

Prof. Dr. Mama El Rhazi

Oral Session A: Organic Chemistry - New Hall

Session Chairpersons: Prof. Dr. Taha A Eldebss - Prof. Dr. Somaia Abd El-Karim

A1- Synthesis, Molecular Modeling Insights, and Anticancer Assessment of Novel Polyfunctionalized Pyridine Congeners

Prof. Dr. Ahmed Abd Elkader Elrashedy

A2- Green Synthesis, Characterization and Antimicrobial Activity of Some Metal Complexes Containing 1-(2-amino-4,10-dihydrobenzo[4,5]imidazo[1,2-a][1,3,5]triazin-4-yl) naphthalen-2-ol.

Prof. Dr. Ahmed Younis

A3-Organic Material Involving Pi-Conjugated Units and Heterocyclic Compounds for Optoelectronic Applications. Experimental and Theoretical Studies.

Prof. Dr. Mohammed Bouachrine

A4- Synthesis and Antioxidant activity of Some Thiazoles, Thiazolidinone and Thiazolo [5,4-d] Pyrimidine Derivatives.

Prof. Dr. Eslam A. Mostafa

A5- In vitro, in Silico Biochemical Evaluation of Some Candidate Drugs As Anticanceria A Facile Rout For Synthesis of Novel 3-(2-aminothiazole-4-yl)-2H-chromen-2-one-based Heterocycles.

Prof. Dr. Taha M. A Eldebss

A6- Synthesis and Characterization of Levofloxacin-Containing Amphiphilic Peptide Conjugates: A Promising Strategy to Mitigate Antibacterial Drug Resistance

Prof. Dr. Shaban Anwar Darwish

A7- Synthesis of novel biphenyls containing thiophene, pyridazinimine and 1,3,4-thiadiazole moieties, and their effects on the mortality, oxidative stress and antioxidant enzymes in the desert locust, Schistocercagregaria (Forskål) (Orthoptera: Acridiidae)

Prof. Dr. Taha M. A. Eldebss

A8- Preparation, Spectroscopy and Biological Activities Studies of New Complexes of Some Metals Ions with Schiff's Bases Derived from 2-hydroxy-1- naphthaldehyde with Adenine.

Prof. Dr. Naser Shaalan

A9- Facile and Convenient Route to Functionalized Biphenyl Derivatives with Insecticidal Activity.

Prof. Dr. Taha M. A. Eldebss

A10- Multifunctional materials and room temperature phosphorescence: Elucidation of chemical structure and evaluation of the intramolecular charge-transfer properties of oxy-phosphorous tetrabenzotriazacorrole (Cz-TBC) and its tertiary analogue.

Prof. Dr. Basma Ghazal

Oral Session B: *Pharmaceutical Chemistry - Hall G*

Session Chairpersons: Prof. Dr. Mohamed Farag - Prof. Dr. Sahar Awadallah

B1- Application of Receptor-Based Pharmacophore Modeling Strategy for the Design and Synthesis of novel VEGFR-2, FGFR-1 and BRAF Inhibitors

Prof. Dr. Heba T. Abdel-Mohsen

B2- Development of Peroxisome Proliferator-activated Receptor Gamma (PPAR γ) Agonists as Anti-diabetic Agents

Prof. Dr. Iman A. Y. Ghannam

B3- The anti-hypothyroidism regulating role of *Ficus carica* L. leaves extract as promising phytochemical agent

Prof. Dr. Marwa M. Elbatanony

B4- Design and Synthesis of New Anti-Biofilm Agents as a Strategy in Combating Bacterial Resistance

Prof. Dr. Rasha Mohamed Hassan

B5- Role of probiotics in health and curing disease

Prof. Dr. Al Shimaa Gamal Shalaby

B6- Design and Synthesis of New Coumarin Derivatives Targeting Acetylcholinesterase Inhibition

Prof. Dr. Somaia S. Abd El-Karim

B7- Evaluation of the Efficiency of Nuclear Medicine Radiopharmaceuticals Labeling

Prof. Dr. Mahmoud Adel

B8- A promising approach for preparing biomaterials used in orthopedic and dental applications

Prof. Dr. Rasha Abdel-Hakam Youness

B9- Efficacy Evaluation of Lemon Grass Nano-Emulsion on Smear Layer Removal and Dentine Mineral Content With and Without Laser Activation

Prof. Dr. Doaa M. Sadony

B10- Evaluation of the Effect of Low-Level Laser Therapy versus Photodynamic Therapy on the Level of Serum Interleukin-17 and Salivary IL-4 in Patients Suffering from Erosive/Atrophic Oral Lichen Planus: A Case Control Study

Prof. Dr. Mona A. Sabry

Oral Session C: *Polymer Chemistry - Hall A*

Session Chairpersons: Prof. Dr. Abeer Al Bawab - Prof. Dr. Salwa El-Sabbagh

C1- Cellulosic probes and Adsorbents for Detection of Hexavalent Chromium (VI)

Prof. Dr. Hebat-Allah S. Tohamy

C2- Potential Antimicrobial Cotton Fabrics Coated with Cinnamaldehyde / Chitosan-Alginate Nanocapsules for Food Packaging Purposes

Prof. Dr. Maha Sultan

C3- Synthesis of Multiwalled Carbon Nanotubes MWCNTs via Chemical Vapor Deposition of Acetylene to improve properties of Biodegradable Polylactic Acid PLA

Prof. Dr. Mohammed M. Younus

C4- Structural, Thermal, Optical, and Electrical Properties of New Polyindol Derivatives Prof. Dr. Rasha A. Baseer
C5-Thermoresponsive nanofibers loaded with antimicrobial α -aminophosphonate-o/w emulsion supported by cellulose nanocrystals for smart wound care patches Prof. Dr. Tharwat I. Shaheen
C6- Polymer-based monolith stationary phases for capillary liquid and gas chromatography applications Prof. Dr. Ahmad Agel
C7- Fabrication of Microwave Silicified Oxidized Cellulose Nanocrystals (SOCN) from AgroWaste for Sustainable Multifunctional Wool Fabric Coloration Prof. Dr. Mona T. Al-Shemy
C8-Polymer-Based Monolith Stationary Phases for Capillary Liquid and Gas Chromatography Applications Prof. Dr. Ayman A. Ghfar
C9-Dielectric and Magnetic Properties of Zn-Al Ferrite / Polypyrrole Composite Films for Microwave Applications Prof. Dr. Huda F. Khalil
C10-Superhydrophobic Silicone/Graphene Nanostructured Composite for Eco-Friendly Marine Antifouling Coatings Prof. Dr. Mohamed SayedSelim
Oral Session D: <i>Biochemistry</i> - Hall B
Session Chairpersons: Prof. Dr. Khalidah Salih Merzah - Prof. Dr. EL-Sayed Yakout
D1- The relationship between Vitamin D status and C-reactive Protein CRP with Coronavirus Disease (COVID-19) in Iraqi Older Patients, Prof. Dr. EssamFadel Al-Jumaili
D2- Optimistic Antibacterial Medical Cotton Gauze Treated With Gelatin Nanocomposite with Different Antibiotics Prof. Dr. Ghada M. Taha
D3- Effect of Corn Pie Dietary Intervention on Serum Uromodulin Levels and Renal Function in Obese Women Prof. Dr. Hend A. Essa
D4- Design, Synthesis and Anticancer Evaluation of new microtubule modulators Prof. Dr. Islam H. Ali
D5- Zinc Gelled Chitosan: Preparation and Activation to Function as Covalent Immobilizers Prof. Dr. Marwa I. Wahba
D6- Towards apoptotic anticancer selective response in cancerous cells: Drug likeness and in silico ADMET Studies of a series of synthesized Sulphonamide Derivatives Prof. Dr. Marwa M. Mounier
D7- Stability improvement of industrially valuable xylanase enzyme by chemical modification Prof. Dr. Nermeen H. Elzairy
D8- Low-cost and eco-friendly microbial enzymes: a journey from production to application Prof. Dr. Walaa Abdel Salam Abdel Wahab
D9- Current Perspective on Production and Industrial Applications of Microbial Xylanase Prof. Dr. Shireen A.A. Saleh
D10- Chromium (II), Cobalt (II) and Tungsten (VI) Mixture Increments the Nutritive Value of Candida Utilis (Torula), as a Promising Mineral-Enriched Fodder and Food Prof. Dr. Basma Hussein Mostafa

Wednesday 14th February 2024

Plenary Lectures No 5 , 7 - New Hall

Plenary 5: Source apportionment of PM2.5 in the East Mediterranean Middle East region: analytical challenges and impact on air quality management.

Prof. Dr. Charbel Afif

Plenary 7: Materials and Nanomaterials for Wide Spectrum of Applications.

Prof. Dr. Abeer Al Bawab

Oral Session E: Environmental Chemistry - New Hall

Session Chairpersons: Prof. Jean Sciare - Prof. Dr. Abdulrahman A. Alwarthan

E1- Advances in Sustainable Green Water Treatment Technologies,

Prof. Dr. Baraa Hafez

E2- Optimizing the Physical Features and Performance of HTL Materials in Organic Solar Cells via Plasma Modification Techniques,

Prof. Dr. M. Abdelhamid Shahat

E3- Facile and Low-Cost Mass Production of Highly Active rGO for Water Remediation,

Prof. Dr. Mohamed Lotfy Elshendidy

E4- Phenolic Compound Removal from Olive Mill Wastewater by Surface Modified Activated Carbon under Acidic and Basic Conditions,

Prof. Dr. Muna A. Abu-Dalo

E5- Ceramic Nanocomposite Membrane for Removing Heavy Metals from Polluted Water,

Prof. Dr. Ayat Bozeya

E6- Self-powered integrated solar-microbial electrochemical system for simultaneous green hydrogen production and wastewater treatment,

Prof. Dr. Mohamed Mahmoud

Oral Session F: Inorganic Chemistry - Hall G

Session Chairpersons: Prof. Dr. Mama El Rhazi - Prof. Dr. Mohamed Rashad

F1- Facile synthesis of ZnO/CuO/Eu hetero structure photocatalyst for the degradation of industrial effluent,

Prof. Dr. Abdulrahman Alwarthan

F2- Ultrafine Ni Core/ NiO Amorphous Shells Nanocrystals with Strong Exchange Bias,

Prof. Dr. Hanan Alchaghouri

F3- A new Modified Carbon Paste Electrode for Selective Determination of Chromium (III) in Pharmaceutical Drugs and Food Samples,

Prof. Dr. Safa S. EL-Sanafery

F4- Optimization of Bioelectricity Production Using Agro-Industrial Waste,

Prof. Dr. Abdelrahman Mohamed Tammam

F5- Tunisian Clays: Innovative Ceramic Membranes for Effective Pollution Control,

Prof. Dr. Makhloufi Khedidja

F6- Efficient CO₂ Electro-Reduction at Cu-Fe Foam-Like Porous Catalysts,

Prof. Dr. A. A. El-Sherif, M. S. El-Deab

Oral Session B: Pharmaceutical Chemistry - Hall A

Session Chairpersons: Prof. Dr. Mohamed Ali Farag - Prof. Dr. Sahar Awadallah

B11- Polyphenolic compounds from Pistacia Atlantica Desf. and CCl₄ induced Hepatotoxicity in Rat

Prof. Dr. Sahar A.M. Hussein

B12- Optimization of culture conditions for lipase production by <i>Aspergillusniger</i> Prof. Dr. Lamees Abdullah
B13- Evaluation of some citrus peel extracts as Eco-Friendly Pesticides against <i>Lasiodermaserricornis</i> (F.) cigarette beetle Prof. Dr. Reham Ibrahim Mohamed
B14- Development of a New Benzofuran–Pyrazole–Pyridine-Based Molecule for the Management of Osteoarthritis Prof. Dr. Noha E. Ibrahim
Plenary Lecture No 6 - New Hall
Plenary 6: Novel insights light driven catalysis via electroanalytical chemistry. Prof. Dr. Christine Kranz
Oral Session C: Polymer Chemistry - New Hall
Session Chairpersons: Prof. Dr. Abeer Al Bawab - Prof. Dr. Salwa El-Sabbagh
C11- Polymer Composite Films for Combined Active and Intelligent Meat Preservation Prof. Dr. Ahmed F. Ghanem
C12- Recent advances and current trends in polymer biomimetic materials Prof. Dr. Samir M. M. Morsi
C13- Examining the Impact of Incorporating SrSnO ₃ /SnO ₂ /Fe ₃ O ₄ Nanocomposites into PVDF Polymers on Their Structural, And Photoluminescence Characteristics Prof. Dr. Fawzy G. El Desouky
C14- Sustainable Source Alternative for Carbon Black in Rubber Composite Manufacture Prof. Dr. Mahmoud E. Abd El-Aziz
C15- Application of Innovative and Cost-Saving Nanocomposites with Robust Antimicrobial Activity in Waterborne Coatings Prof. Dr. Walaa M. Abd El-Gawad
C16- Glass fiber reinforced natural rubber for car interior accessories Prof. Dr. Mahmoud D.S
C17- Cellulose as a Promising Starting Material Prof. Dr. Sawsan Dacrory
C18- Assessment of Aluminum (lignin /silica /fatty acids) Complex Prepared from Rice Straw as Green Reinforcing Filler in Natural Rubber Composites Prof. Dr. Khlood S. Abdel Zaher
C19- Delving into structural, optical, and dielectric properties of (PVA: PVP)/BaSnO ₃ polymer nanocomposites as promising films for green optoelectronics and energy storage applications Prof. Dr. Talaat A. Hameed
C20- Utilization of High Alcohol and Ferrocene for the Production of Carbon Nanotube from a Diesel Engine Prof. Dr. M. F. Elkady
C21- Vinyl ester resin reinforced with cellulose extracted from Egyptian <i>Eichhornia crassipes</i> : Effect of UV radiation on the hardness Prof. Dr. Salwa Elmesallamy

Oral Session D: *Biochemistry* - Hall G

Session Chairpersons: *Prof. Dr. Khalidah Salih Merzah - Prof. Dr. EL-Sayed Yakout*

D11- Involvement of PPAR γ -NLRP3 pathway in the anti-depressant effect of Naringenin-loaded hybridized nanoparticles in diabetic rats

Prof. Dr. Salma A. El-Marasy

D12- Assessment of the Inhibitory Effect of Chitosan-Capped Iron Oxide Nanoparticles against Carbonic Anhydrase II

Prof. Dr. Samar M. Mostafa

D13- Antioxidant and Anticancer Activity of Sea Cucumber *Holothuria edulis* from Labuan Bajo Island

Prof. Dr. Ina winarni

D14- Metabolic Profiling of Brown Seaweed Sargassum Sp. from Indonesian Waters and Its Antioxidant Activity

Prof. Dr. Kustiariyah Tarman

D15- Metalaxyl pesticide degradation by *Aspergillus wentii*: proposed pathways and degrading enzymes

Prof. Dr. Hani Moubasher

D16- Salinity stress implication on vegetation, anatomy and yield of some chenopodium quinoa varieties using magnetic water technology

Prof. Dr. Mahmoud HOZAYN

D17- Implement of biotechnology techniques for the production of anticoagulants from *Lagestromiatomentosa* L

Prof. Dr. Asmaa A. Amer

D18- Alleviation Salinity Stress On Germination, Seedling Vigour, Growth, Pigments, Yield And Nutritional Value Of Faba Bean (*Vicia Faba* L) Using Magnetic Technology In Sandy Soil

Prof. Dr. Mohamed A. Darwish

D19- The Protective Effect of *Balanites aegyptiaca* on Cardiotoxicity in Female Albino Mice

Prof. Dr. Esraa Ahmed Badawy

D20- Bio-Efficacy Assessment of Antifungal and Aflatoxin B1 Inhibitory Potentiality of Nano-Encapsulated Caraway Essential Oil Based on Molecular Docking of Major Components

Prof. Dr. Zeinab K. Hamza

D21- HPLC Biochemical screening and DNA Barcoding of in vitro propagated endangered medicinal plants "*Silene leucophylla*"-Endemic species in Egyptian flora

Prof. Dr. Mai A. Allam

D22- In vitro regeneration system of cultivated and wild type tomato (*Solanum lycopersicum*) and primarily trails for agrobacterium-mediated transformation to improve drought tolerance

Prof. Dr. Mai A. Allam

Oral Session E: *Environmental Chemistry* - Hall A

Session Chairpersons: *Prof. Dr. Charbel Afif - Prof. Dr. Abdulrahman Alwarthan*

E7- Boosting Poly (Vinyl Chloride) with Waste-Based Plasticizer and Green Nanofiller,
Prof. Dr. Hamdy M. Naguib

E8- The impacts of cadmium, an environmental pollutant, on honeybee (*Apis mellifera*, Hymenoptera: Apidae), an economic insect: A review article,

Prof. Dr. Ola El. Mohamed

E9- Utilizing New Microcrystalline cellulose derivative as a Safe Dry-Film Biocide with UV-shielding ability in Eco-friendly Paints, Prof. Dr.HodaSabry Othman
E10- Novel Magnetic Zinc Oxide Cellulose Acetate Hybrid Nanofiber for Phenol Decontamination Removal, Prof. Dr.H. Shokry Hassan
E11- Enhancing and optimization of green Hydrogen mixtures in natural gas to optimize transportation, power, and economy, Prof. Dr.Hassan M. M. Mustafa
E12- Improving biodiesel quality and productivity from Egyptian castor by studying optimization factors, Prof. Dr.M. Yasser Abdelsadak
E13- Integrated electrocoagulation-flotation process: a comparative study for employing Fe/Al electrodes in Tanta wastewater treatment plant influent, Prof. Dr.Heba K.EL-Kholly
E14-MIL-101-Cr MOF/Carbon Quantum Dots Composites for Enhanced Hydrogen Storage, Prof. Dr.Mahmoud Abdelnaby
Oral Session F: <i>Inorganic Chemistry - Hall B</i> Session Chairpersons: <i>Prof. Dr. Mama El Rhazi - Prof. Dr. Mohamed Rashad</i>
F7-New Ceramic Membranes from Syrian Sand Loaded With Silver Nanoparticles to Water Treatment, Prof. Dr.AbdulrazzaqHammal
F8- Zinc Complexes as Promising Antiviral Agents for COVID-19 Treatment:A Review of Recent Developments, Prof. Dr.Nora S. Abdel-Kader
F9- Fabrication of biosensor from metal oxide and sulfides nanomaterials, Prof. Dr.N. Roushdy
F10- New Approaches for determination of new psychoactive substances (NPS) in pure and biological samples, Prof. Dr.Rasha A. Ahmed
F11- Undergraduate Experiment Using Absorption and Diffuse Reflectance Spectroscopies: Theoretical and Experimental Bandgap Calculations of Porphyrins and Metalloporphyrins, Prof. Dr. Muna Bufaroosha