



FORUM PROGRAM

WORLD FORUM FOR WOMEN IN SCIENCE, Egypt 2026

 **Date:** 8–10 September 2026

 **9–8 Sept Venue:** National Research Centre, Egypt

 **10 Sept Venue:** Virtual Online Day

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MASTER PROGRAM OVERVIEW

8-10 SEPTEMBER 2026

Date	Time	Program Block	Details
Tuesday, 8 September 2026	09:30-10:00	REGISTRATION	Registration
	10:00-10:30	Opening Remarks.	
	10:30-12:30	GOVERNING SESSION	Envisioning the Future: Empowering Science, Technology, Innovation, Entrepreneurship and the Governance Interface for Sustainable Development
	12:30-12:45	Breakout sessions	
	12:45-14:15	PARALLEL SCIENTIFIC SESSIONS	Biology Session 1 Materials-Engineering Session 1 Environment & Agriculture Session 1
	14:15-15:00	Lunch Break	
	15:00-17:00	PARALLEL SCIENTIFIC SESSIONS	Biology Session 2 Materials-Engineering Session 2 Environment & Agriculture Session 2
Wednesday, 9 September 2026	09:30-11:00	General Session: From Knowledge to Impact	
	11:00-13:00	PARALLEL SCIENTIFIC SESSIONS	Biology Session 3 Materials-Engineering Session 3 Environment & Agriculture Session 3
	13:00-14:30	PARALLEL SCIENTIFIC SESSIONS	Biology Session 4 Materials-Engineering Session 4
	14:30-15:00	Lunch Break	
	15:00-17:00	PARALLEL SCIENTIFIC SESSIONS	Biology Session 5 Materials-Engineering Session 5
Thursday, 10 September 2026	10:00 -5:00	ONLINE DAY	Online scientific program

Registration & Opening Ceremony -09:30–10:30

Hani El –Nazer Hall

09:30–10:00: Registration-Hani El-Nazer Hall

10:00–12:30: OPENING CEREMONY

10.00–10.30: Opening Remarks: Details of speakers, titles and exact sequence



Opening Session |10:30-12:30

 Envisioning the Future: Empowering Science, Technology, Innovation, Entrepreneurship and the Governance Interface for Sustainable Development

Session Chairs: Prof. Dr. Ahmed Youssef & Prof. Dr. Hossam El-Nazer

Hani El –Nazer Hall

Panel 1 — Turning Science and Innovation into Sustainable Solutions

• **Prof. Dr. Adla Ragab**

Member of Parliament, Tourism and Aviation Committee

• **Prof. Dr. Maged Ghoneima**

Founder and General Partner of M Empire Angels Chairman of Startup Egypt

• **Mrs. Ghada Michel**

Head of Communications and CSR at Sanofi

• **Mrs. Nagwa A. ElSayed**

Head of the Scientific Research and Innovation Sector at Misr-elkheir Foundation

Moderators: Mr. Ashraf Amin & Mr. Mohamed El-Hawary

Panel 2 — Building Stronger Governance for Science, Innovation and Sustainable Development

• **Mrs. Rania Sadeky**

Member of the Egyptian Senate

Member of the Defence and National Security Committee

• **Prof. Dr. Nevine Makram Labib**

• Chair of the Computer and Information Systems Department, Sadat Academy for Management Sciences (SAMS)

• **Prof. Dr. Heba M. Sharobeem**

Member of the Egyptian Senate

Vice chair of the Committee of Human Rights and Social Solidarity

• **Ms. Mona keshta**

Egyptian House of Representatives, Member of the Foreign Affairs Committee



Concluding Discussion — From Ideas to Action

12:30–12:45 | Break Out Sessions

12:45–14:15 | PARALLEL SCIENTIFIC SESSIONS

14:15–15:00 | Lunch Break

15:00–17:00 | PARALLEL SCIENTIFIC SESSIONS



Biology and Medical sciences — Session 1

Hani El –Nazer Hall

Chairs: Prof. Dr. Mohamed Salama & Prof. Dr. Nadia Hamdy

Speaker / Role	Affiliation / Role	Presentation Title
Invited Talks (15 minutes each)		
Prof. Dr. Mohamed Salama (Moderator)	The American University in Cairo (AUC), senior fellow for the Global Brain Health Institute (GBHI), Egypt	Risk and Resilience in Dementia: Towards a more proactive approach
Prof. Dr. Nadia Hamdy (Moderator)	Biochemistry Dept., Faculty of Pharmacy, Ain Shams University, Cairo, Egypt	Epi genetics Integration into Medicine for Advancing Precision via Chem/Bio-informatics Piloting/Validation
Regular talks (10 minutes each)		
Prof. Dr. Dalia Osama Saleh	Pharmacology Department, Medical Research and Clinical Studies institute, National Research Centre, Egypt	Natural Products as Multi-Target Therapeutics for Polycystic Ovary Syndrome
Dr. Mawell Sameh, MD, CMD	Head of Vaccines Egypt and Sudan, Sanofi	Enhancing women’s healthcare by vaccinations
Dr. Sherehan Khalil, MD, CMD	Medical Operations Lead Egypt, Sanofi	Diversity and Inclusion in clinical trials
Dr. Eman Abd El-Razek Metawea Abbas	Researcher, National Research Centre, Egypt	Host Genetic Biomarkers Associated with Disease Progression in HCV-Related HCC

Materials and Engineering— Session 1		Main Hall
Chairs: Prof. Dr. Ahmed A. Abdel Moneim & Prof. Dr. Nour F. Attia		
Speaker / Role	Affiliation / Role	Presentation Title
Invited Talks-15 minutes		
Prof. Dr. Ahmed A. Abdel Moneim (Moderator)	Founding Dean of the Faculty of Basic and Applied Sciences at the Egypt-Japan University of Science and Technology (E-JUST), Egypt	Turning CO ₂ into Opportunity: The New Carbon Economy
Prof. Dr. Nour F. Attia (Moderator)	Gas analysis and fire safety lab, chemistry division, National Institute of standards (NIS)	Sustainable and Scalable Nanomaterials for Energy and Environmental Applications
Prof. Dr. Marwa S. M. I. Shalaby (Invited-15 minutes)	Professor of chemical engineering, National Research Centre, Egypt	Next-Generation Composite Membranes for Water and Wastewater Treatment
Regular talks (10 minutes)		
Prof. Dr. Ahlam M. Fathi	Physical chemistry dept., NRC, Egypt	Progress in using metal oxide-based electrode materials as safe and sustainable electrode for electrochemical supercapacitors
Ass. Prof. Nihal El-Mehalawy	Institute of Advanced materials technology and mineral resources researches, National Research Centre, Egypt	Dielectric Evaluation of the fabricated Alumina Composites doped with Different Oxides for Electrical Insulation Applications
Ass. Prof. Heba Elsayed Ali Hassan	Associate Professor, National Research Centre, Egypt	Advanced Ternary Nanocomposite Heterojunctions for Solar-Driven Hydrogen Evolution and Environmental Remediation

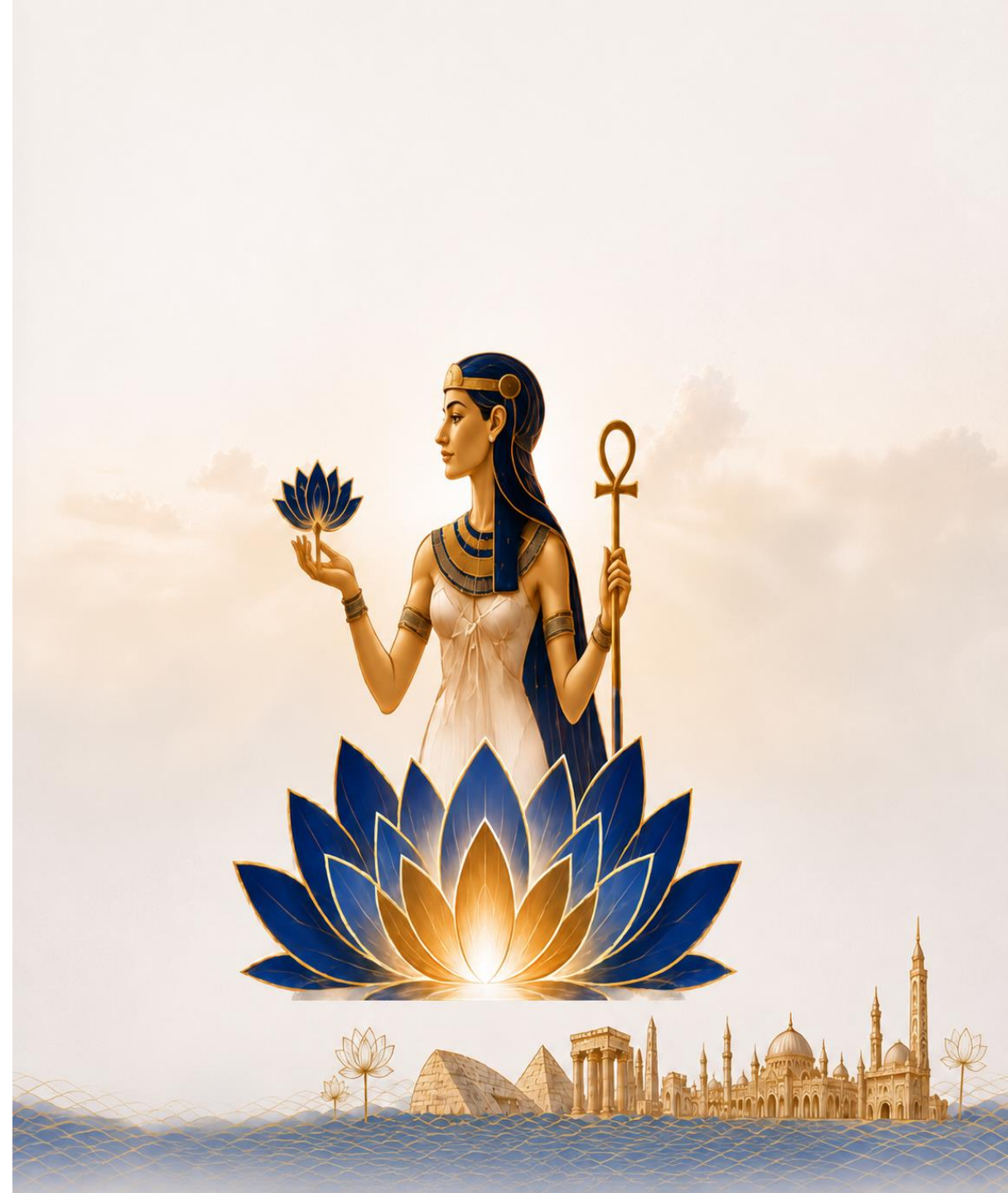
Environment and Agriculture— Session 1

Hall A

Chairs: Prof. Dr. Nour Shafik El-Gendy & Prof.Dr. Seham Ali Shaban

Speaker / Role	Affiliation / Role	Presentation Title
Invited talks (15 minutes)		
Prof. Dr. Nour Shafik El-Gendy (Moderator)	Egyptian Petroleum Research Institute (EPRI), Egypt	Marine Macroalgae Recruitment for Achieving Food, Energy and Water Nexus
Dr. Shaden Diyab	International expert in climate change and sustainable development, France.	Environmental Diplomacy and Women: Issues of Stability and Climate Peace in the Arab World and the EMENA Region
Regular talks (10 minutes)		
Dr. Pulane Koosaletse-Mswela	Senior Lecturer at the University of Botswana, Botswana	Environmental Quality-Based Assessment of a Small Dam for Sustainable Recreational Use in Semi-arid Botswana”
Prof. Dr.Seham Ali Shaban (Moderator(	Egyptian Petroleum Research Institute, Egypt	Biochar – Sustainable Material for A Green Future
Ass. Prof. Safaa S. M. Ali	Physics Research institute, National Research Centre, Egypt	Spatial Distribution and Health Risk Assessment of Heavy Metals in the Road Dust Deposited on Tree Leaves in the main Overcrowded Squares of Greater Cairo
Ms. Takya Mohammad Ahmed Elnady	El-Sadat STEM School, Egypt	The Role of Green Chemistry in Achieving Sustainable Development Goals: A Modern Educational Vision

14:15–15:00 | lunch BREAK



Biology and Medical Sciences— Session 2

Hani El –Nazer Hall

Chairs: Prof. Dr. Reham Dawood & Prof. Dr. Menha Mahmoud Swellam

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks (10 minutes each)		
Prof. Dr. Reham Dawood (Moderator)	Professor, National Research Centre, Egypt	Evaluation of lncRNA PVT1 Variants and Serum E-Cadherin Levels in Breast Cancer
Prof. Dr. Menha Mahmoud Swellam (Moderator)	Head of High Throughput Lab, NRC, Egypt	Clinical Impact of MiRNAs in Women Malignancies: Current Insights and Validation
Ass. Prof. Ghada Salum	Associate Professor, National Research Centre, Egypt	Genetic Dysregulation in Breast Cancer: Impact on Immune Surveillance and Infection Control
Ass. Prof. Ahmed Hassan Hassan Afifi	Associate Professor, National Research Centre, Egypt	Marine Environment as a Potential Source for Small Molecule Targeted Anti-Cancer Agents
Ass. prof Mona Mohammad Agwa	Associate Professor, National Research Centre, Egypt	Active Tumor Targeting Exploiting Overexpressed Cellular and Subcellular Receptors
Dr. Basma Elsayed Fotouh	Researcher, National Research Centre, Egypt	Impact of KRAS and NOXA Gene Expression on Ovarian Cancer Development and Progression
Dr. Tânia dos Reis	PhD Candidate, IHMT & University of Cape Verde, Cape Verde	Nasal Microbiota Profile and Its Correlation with Pediatric Asthma and Atopic Conditions
Dr. Walaa Abdallah Gad	Researcher, National Research Centre, Egypt	Epigenetics and Gene Therapy Technologies for Precision Veterinary Medicine
Dr. Amal Abdel-Bassir Draz	Researcher, National Research Centre, Egypt	Integration of DNA Barcoding, Metabolite Profiling, and Antimicrobial Evaluation of Zygothrix
Ass. Prof. Mai Abd El Meguid Ali Dawoud Oada	Associate Professor, National Research Centre, Egypt	Evaluation of PNPLA3 Genetic Variants in HBV Patients Concomitant with MASLD
Ass. Prof. Ola Mohamed Mousa	Associate Professor, Faculty of Nursing, Minia University, Egypt	Exploring Risk Perception and Behavioral Patterns of Antibiotic Misuse Among Students

Materials and Engineering — Session 2

Main Hall

Chairs: Prof. Dr Shimaa El-Hadad & Prof. Dr. May M. Eid

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks-10 minutes		
Prof Giovanna Avellis	Director of International Consortium of Research Staff Associations (ICoRSA), Italy	Entrepreneurship and Science innovation by tackling the Women Digital Divide Gap
Prof. Dr.Shimaa El-Hadad (Moderator)	Central Metallurgical Research and Development Institute (CMRDI)), Egypt	Titanium Alloys: Recycling Technologies and Challenges
Prof. Dr. May M. Eid (Moderator)	Physics Research institute, National Research Centre, Egypt	Green-Synthesized Magnetic-Plasmonic
Ass. Prof. Tamer Sami Mansour	Associate Professor, National Research Centre, Egypt	Diatomite-based electromagnetic wave absorption and shielding materials: Current research and future possibilities
Ass.Prof. Rim Gasmi	University Center of Illizi, Algeria	Artificial Intelligence as a Catalyst for Science-Based Innovation and Entrepreneurship in Desert Regions
Assis. Researcher Mona S. H. Gaber	British University in Egypt (BUE), Egypt	Advanced Functional Materials for Biosensing and Biomedical Applications
Master Studen. Soulaf Chenini	University Center of Illizi, Algeria	Hand gesture and sign language recognition for Targui Language based on deep learning
Ass.Prof. Ghada Mohamed Taha Ibrahim	Textile Research and Technology Institute, National Research Centre, Egypt	Controlled Delivery of Trans- cinnamaldehyde through Chitosan/Alginate Nano capsules for Active Food Packaging Textiles
Ass. Lecturer. Sarah Hesham Mohamed Rashed	Borg AlArab Technological University, Egypt	Dyeing to Be Clean: How Double Layered Hydroxides are Revolutionizing Industrial Wastewater Treatment

Environment and Agriculture— Session 2

Hall A

Chairs: Prof. Dr. Hamdy F. El- Mowafi & Prof. Dr. Wafaa Mohamed Abd El-Rahim

Speaker / Role	Affiliation / Role	Presentation Title
Invited Talks (15 minutes)		
Prof. Dr. Hamdy F. El- Mowaf (Moderator)	Crops Research Institute, Agricultural Research Center (ARC), Egypt	New Egyptian innovations to develop the production of hybrids, super and basmati smart rice resilient
Regular talks (10 minutes)		
Dr. Jenny Carolina Orjuela Garcia-Agri	Researcher in postdoctorate, National University of Colombia, Colombia	Smart Vermicomposting: Automating Biofertilizer Production Through Community Knowledge and Low-Cost IoT
Ms. Marwa Sulaiman Al-Hinai	Sultan Qaboos University, Oman	Integrating nanotechnology and smart agriculture for drought resilience: toward sustainable agroecosystems
Ass.Prof. Ahmed R. Henawy	Faculty of Agriculture, Cairo University, Giza, Egypt	From Lab Innovation to Agricultural Entrepreneurship: Lactic Acid Bacteria for Sustainable Farming and Healthy Food Systems
Ass.Prof. Asmaa Ahmed Mostafa Halema	Faculty of Agriculture, Cairo University, Egypt	Lactic Acid Bacteria-Based Bio-Stimulant Production from Low-Quality Date Waste: A Sustainable Circular Bioeconomy Approach"
Ass. Pof. Sameh Mohamed Mohamed El-Sawy	Agricultural and Biological Research Institute, National Research Centre, Cairo, Egypt.	Reproductive-Stage Heat Stress Tolerance in Rice: Implications for Climate-Resilient Agriculture under Global Warming
Ass. Pof. Sahar Abd EL-Aziz Othman	National Water Research Center (NWRC), Egypt	Mitigating Severe Salinity Stress in Vicia faba L. via Exogenous Proline
Dr. Heba Abdelaziz Moussa AbdAlla	Botany Department, Agriculture and Biological Institute at National Research Centre, Egypt	Reproductive-Stage Heat Stress Tolerance in Rice: Implications for Climate-Resilient Agriculture under Global Warming
Dr. Mai N. Amer	Pharmaceutical and Drug Industries Research Institute, National Research Centre, Egypt	From Lab Innovation to Agricultural Entrepreneurship: Lactic Acid Bacteria for Sustainable Farming and Healthy Food Systems
Dr. Maissara M.K. Elmaghraby	Agriculture Research Center (ARC),Egypt	Lactic Acid Bacteria-Based Bio-Stimulant Production from Low-Quality Date Waste

General Session: From Knowledge to Impact

Hani El –Nazer Hall

Chairs: Prof. Dr. Hala Yousry & Prof. Dr. Heba Soliman

Speaker / Role	Affiliation / Role	Presentation Title
Invited Talk-15 minutes		
Prof. Dr. Hala Yousry (Moderator)	Desert Research Center, Egypt	Bridging the Gap between Scientific Research and Practical Application Causes, Challenges, and Strategic Interventions
Regular Talks- 10 minutes		
Prof. Dr. Heba Soliman (Moderator)	Port Said University, Training manager, Egypt	The Future of Science: Training, Employability Skills, and Entrepreneurship
Mrs. Shaimaa ElBanna	Director of Change Leaders Scholarship, Egypt	The Hidden Costs of Women’s Careers in STEM: Challenges and Pathways to Inclusion
Dr. Bothaina Mahmoud Fouad	New Cairo Technological University (NCTU), Egypt	Envisioning the Future: The Importance of Entrepreneurship for Women in Science
Ms.Gulzar Karybekova	Centre of Actual Problems and Development, Director, Russia	Imagining What is Possible for the Future; Developing Evidence-Based Governance and Innovation Through Women’s Leadership
Biotechnologist Natalia Montellano Duran	Universidad Católica Boliviana San Pablo, Organization for Women in Science in Deceloping World, Director, Bolivia	Gender-neutral Scientific Leadership in Bolivia: Evidence-Based Insights on Women’s Participation Across the STEM Education and Research Pipeline
Anthropologist Ralitsa Savova	Member of the Editorial Committee of Cultural route "Longobard Ways across Europe, Italy,"	Is Africa really the poorest continent on Earth?

Biology and Medical Sciences — Session 3
Chairs: Prof. Dr. Nesrine Hegazi & Prof Dr. Amani Mostafa

Hani El –Nazer Hall

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks (10 minutes each)		
Prof.Dr. Nesrine Hegazi (Moderator)	Professor, National Research Centre, Egypt	From Sea to Table: The Power of Metabolomics in Marine Food Science
Ass. Prof. Mona Abd El-Mouty Moustafa Raslan	Associate Professor, National Research Centre, Egypt	Beyond Random Screening: MS/MS Molecular Networking in Natural Product Drug Discovery
Ass. Prof. Rehab Fikry Taher Fareed	Associate Professor, National Research Centre, Egypt	Molecular Mechanisms Underlying the Antineoplastic Profile of Vitexin 2"-O-α-L Rhamnopyranoside
Ass. Prof. Zeinab Abd Elkhalek Ali Elshahid	Associate Professor, National Research Centre, Egypt	Investigation of Endophytic Fungi Secondary Metabolites with Potential Bioactivity
Ass. Prof. Gehan Fawzy Abdel Raoof Kandeel	Associate Professor, National Research Centre, Egypt	From Waste to Wellness: Bioactive Profiling and Multi-Target Potential of Vicia faba Peels
Ass. Prof. Marwa N. Ahmed	Assistant Professor, Nile University, Egypt	Evolutionary Trajectories of Antibiotic Resistance in Pseudomonas aeruginosa: Mechanisms, Dynamics, and Strategies for Constraint
Ass. Prof. Rasha Mohamed Hassan	Associate Professor, National Research Centre, Egypt	Synthetic Anti-Biofilm Agents as a Strategy in Combating Bacterial Resistance
Ass. Prof. Doaa Khalaf	Associate Professor, National Research Centre, Egypt	Antimicrobial Resistance in the Animal Sector: The 'One Health' Approach
Ass. Prof. Islam Hany Ali Haridy	Associate Professor, National Research Centre, Egypt	New Microtubule Modulators: Design, Synthesis and Anticancer Evaluation
Founder & CEO. Yosra Morsy	OASIS Pyschology Creations, Founder & CEO Mental Healthcare in 2035: From Clinics to intelligent Care, Egypt	Mental Healthcare in 2035: From Clinics to Intelligent Care

Materials and Engineering: — Session 3

Main Hall

Chairs: Prof Dr. Salma Naga & Prof. Dr. Hanan B. Ahmed

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks-10 minutes each		
Prof. Dr. Hanan B. Ahmed (Moderator)	Faculty of Science, Helwan University, Egypt	Green fabricated Nanomaterials for Pharmaceutical and Biomedical purposes
Ass. Prof. Moshera S. Abdelaz Youssef	Associate Professor, National Research Centre, Egypt	In vitro release and cytotoxicity activity of 5-fluorouracil entrapped polycaprolactone nanoparticles
Assoc. Prof. Rasha Abdel Baseer Taha Muhammed	Department of Polymers and Pigments Technology at the National Research Centre , Egypt	Enhanced electrochemical and optical properties of new conjugated n-p type polymers
Ass. Prof. E M. Mahmoud	Associate Professor, National Research Centre, Egypt	Recent trends in Advanced Bioceramics for orthopedic Applications
Ass. Prof. Heba-tollah Mahmoud Sweelam	Associate Professor, National Research Centre, Egypt	In Vitro Culture as a Sustainable Platform for the Production of Pharmaceutically Important Natural Products from Higher Plants
Ass. Prof. Mona Sayed Ahmed Mohamed	Assistant Professor, National Research Centre, Egypt	Bioactive Calcium Phosphate - Silicate Composites: Synthesis, Characterization and In-vitro Assessment
Ass. Prof. Samaa M. Faramawy	Associate Professor, National Institute of Standards (NIS), Egypt	Metrology and Traceability: Role as a Precondition for Sustainability
Assoc. Prof. Mona Moaness Abdel-Moneam Mohamed	Associate Professor, National Research Centre, Egypt	3D-Printed Reinforced Scaffolds for Bone Regeneration and Controlled Drug Delivery
Teaching Assis. Hadeer Mamdouh Ahmed Eldeeb	Faculty of archeology, Cairo University, Egypt	Novel Nanostructured Agarose Gels for the Non-Invasive Cleaning and Protection of Historic Tintype Photographs

Environment & Agriculture— Session 3

Hall A

Chairs: Prof. Dr. Fagr Abd El-Gawad & Prof. Dr. Salwa Kamal Mohamed Hassan

Speaker / Role	Affiliation / Role	Presentation Title
Regular Talks (10 minutes)		
Prof. Dr. Salwa Kamal Mohamed Hassan (Moderator)	Environment and Climate Change Research Institute, National Research Centre, Egypt	Assessing Indoor Pollution: Organic and Carcinogenic compounds; Heavy Metal Exposure, and Health Risks in Indoor Environments
Ass.Prof. Alyaa Ibrahim	school of biotechnology, Nile University, Egypt	Synergistic CO ₂ Capture: A Novel Chitosan-Metal Oxide Nanoparticle-MOF Hydrogel Composite from Waste-Derived Materials
Ass. Prof. Shymaa Sabry Zaher	National Institute of Oceanography and Fisheries, Egypt	Assessing the Therapeutic efficiency of Spirulina platensis on ethanol-Induced Oxidative Markers, DNA Damage and some Organs histopathology in Rat
Dr. Douaa Hussein Abdel Aziz	National Research Centre, Egypt	Bioremediation and Our Lives: Restoring the Environment We Depend On
Dr. Elham Ahmed Abdelrahim Mohamed	Conservation Department, Faculty of Archaeology, Fayoum University, Egypt	The Role of Artificial Intelligence in the Preservation of Mural Paintings Under Climate Change: Opportunities, Challenges and Emerging Frameworks
Dr. Arig wahid Elkhoully	Faculty of Industrial and Energy Technology, Borg Al Arab Technological University (BATU), Egypt	Hazelnut Shell Powder as a Sustainable Novel Functional Ingredient for Quality Improvement of Crackers

Biology and Medical sciences— Session 4

Hani El –Nazer Hall

Chairs: Prof. Dr. Amr Hussein & Prof. Dr. Eman E. El Shanawany

Speaker / Role	Affiliation / Role	Presentation Title
Regular Talks-10 minutes		
Prof. Dr. Eman E. El Shanawany (Moderator)	Professor, National Research Centre, Egypt	Platyhelminth Glycans: Host–Parasite Interactions, Immunomodulation, and Vaccinology
Dr. Aya abdallah Seleem	Lecturer, Cairo University, Egypt	The Rise of Pan-Drug Resistance: Implications for Public Health and Zoonotic Diseases
Dr. Rana Ahmed Mohamed Eissa	Research Assistant, Badr University, Egypt	Antibacterial Nanocomposite Coatings for Controlling ICU Pathogens
Ass. Prof. Reham Amgad Mohamed-Ezzat	Associate Professor, National Research Centre, Egypt	Synthetic Strategies Towards Novel Pyrimidine Sulfonamides as Potent Antiviral Agents
Ass. Prof. Iman Ahmed Youssef Ghannam	Associate Professor, National Research Centre, Egypt	Development of Benzenesulfonamide-based PPAR γ Agonists for Type II Diabetes
Lecturer Afnan Hamdy Elgowily	Lecturer and Postdoctoral Researcher, Chemistry Department, Biochemistry Section, Faculty of science, Tanta University, Egypt	Pathophysiological Significance of Mallory Denk Bodies: Addressing a Century-Old Mystery
Ass. Prof. Amira Samy Talaat Abou Taleb	Assistant Research Professor, Electronics Research Inst., Egypt	Beyond the Black Box: How Explainable AI (XAI) Can Support Trustworthy Healthcare Decisions
Dr. Dina Magdy Ghanem	Researcher, National Research Centre, Egypt	Integrated Phytochemical Profiling and Biological Evaluation of Egyptian Tribulus terrestris L.: A Promising Source for Therapeutic Product Development

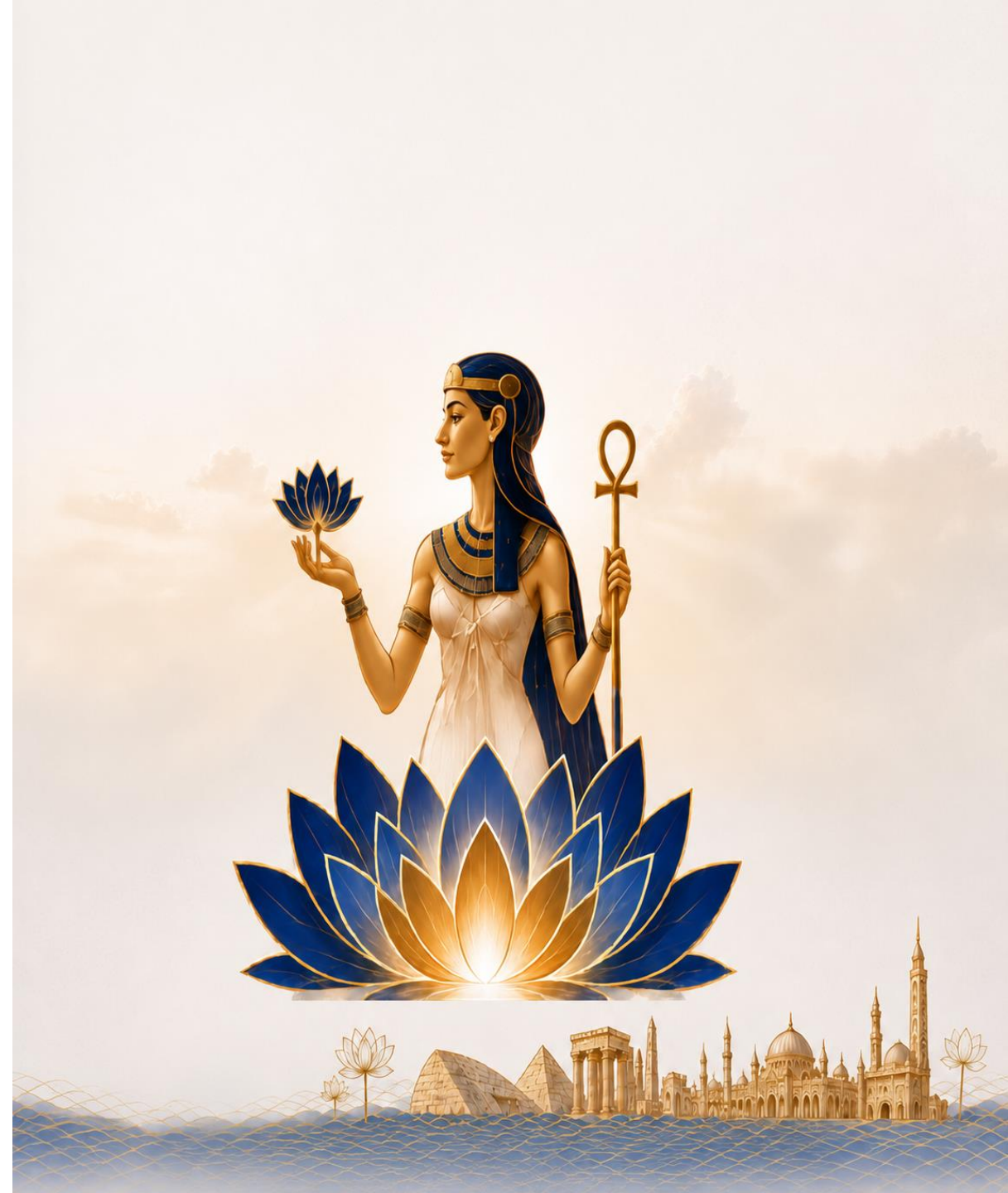
Materials and Engineering: Session 4

Main Hall

Chairs: Prof. Dr. Marwa I. Wahba & Prof. Dr. Inas K. Battisha

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks-10 minutes each		
Prof. Dr. Marwa I Wahba (Moderator)	Professor, National Research Centre, Egypt	Proteins as grafting materials for the fabrication of covalent immobilizers
Ass. Prof. Marwa Hany	German International University in Cairo (GUC), Egypt	Identification of novel pyrazolines and isoxazolines as antileishmanial agents via a potential antifolate mechanism: synthesis, biological evaluation, and in silico studies
Ass. Prof. Maha Ahmed Ali Ahmed	Associate Professor, Faculty of Archaeology, Cairo University, Egypt	Mount Arafat Through the Lens of Muhammad Sadiq Bey: Documentation and Analysis of a 19th Century Albumen Print
Dr. Sara Sayed Abdel-Haliem Selim	Researcher, Egyptian Petroleum Research Institute,Egypt	Plastic Waste to High-Performance Aerogel Sorbents for Sustainable Oil Spill Cleanup
Ass. Prof. Heba Elmotasem	Associate professor, National Research Centre, Egypt	Nanoparticles decorated with targeting ligands for precision medicine.
Dr. Ahmed Hegazy	National Research Centre, Egypt	Beneficiation of Granite Waste in Sustainable Construction Materials
Ass. Prof. Rasha Mahmoud Abd El-Wahab	Associate Professor, National Research Centre, Egypt	Evaluation of a sustainable zeolite/bacterial cellulose nanocomposite membrane as a catalyst for biodiesel production from waste cooking oil.

14:30–15:00 | lunch BREAK



Biology and Medical sciences— Session 5 A

Hani El –Nazer Hall

Chairs: Prof. Dr. Nagwa Sayed Ata & Prof. Dr. Rasha Mohamed Abdelraouf

Speaker / Role	Affiliation / Role	Presentation Title
Regular talks-10 minutes		
Prof. Dr. Rasha Mohamed Abdelraouf (Moderator)	Professor, Cairo University, Egypt	From Static to Smart: 4D Printing Applications in Dentistry
Dr. Tamer Mohamed Hamdy	Associate Researcher Professor in the Department of Restorative and Dental Materials Department, Oral and Dental Research Institute, National Research Centre, Egypt	Intelligent Dentistry: How Smart and 4D Materials Are Transforming Oral Care
Ass. Prof. Eman Samy Shalaby	Associate Professor, National Research Centre, Egypt	Bilosomes as a Promising Nano-Delivery Approach Against Skin Aging
Dr. Salma Elmaaz	Founder, Solvira Pharma / Menoufia University, Egypt	Synergistic Topical Cream Formulation for Burn Scar Reduction Using Shell Nanoparticles
Ass. Prof. Yousra Aly Ibrahim Sabry	Associate Professor, National Research Centre, Egypt	Innovative Trends in Dentistry: A Shift Toward Conservative Adult Pulpotomy
Ass. Prof. Salma Ahmed El Marasy	Associate Professor, National Research Centre, Egypt	Anti-Osteoporotic Effect of Sitagliptin via Modulation of RUNX2 and RANKL/OPG Ratio
Dr. Toka A. Ahmed	Faculty of biotechnology, Badr University, Cairo, Egypt	Human Adipose-Derived Pericytes in the Pathophysiology of Type 2 Diabetes Mellitus
Dr. Ragaa Fikry Fathy	Veterinary Research Institute, National Research Centre, Egypt	Ecotoxicological Effects of Emerging Pharmaceuticals on African Catfish: Biomarkers for Neurotoxicity, Immunotoxicity, and Histopathology
Dr. Radwa Hassan El-Akad	National Research Center, Egypt	Marine Metabolomics for Bioactive Compound Discovery in Sea Cucumbers"

Biology and Medical sciences— Session 5 B (young researchers)

Chairs: Prof. Dr. Nagwa Sayed Ata & Prof. Dr. Rasha Mohamed Abdelraouf

Hani El –Nazer Hall

Speaker	Affiliation / Role	Presentation Title
Short talks-5 minutes		
Dr. Naglaa Ramadan Atta Mohamed	Researcher, Cairo University, Egypt	Exploring the Therapeutic Potential of Postbiotics: Antimicrobial and Anticancer Properties
Ms. Gehad kamel AbdalAI	Undergraduate Student, Minia University, Egypt	Exploring Future Healers' Views: Knowledge and Attitudes Toward Stem Cell Research
Mr. Amr Abdelsattar gamal	Undergraduate Student, Minia University, Egypt	Evaluating the Accuracy of Blood Pressure Measurement Knowledge and Clinical Skills Among Nursing Students
Ms. Aya Dahy	Undergraduate Student, Minia University, Egypt	Bridging the Knowledge Gap: PCOS Awareness Among Female University Students
Ms. Basmalaa Ahmed Thabet Hassan	Egyptian Biomedical Engineering researcher specializing in artificial intelligence for healthcare, computational medicine, and digital twin technologies, Egypt	An In-Silico Computational Simulation Framework for Glioblastoma Progression Modeling: Integrating 3D Transformer Segmentation, Computational Radiogenomic Feature Fusion, Simulation-Based Treatment-Response Modeling and Phantom-Based In-Silico Geometric Optimization
Mr. Mohammad Ahmed Ismael Ali Teleba	4th Year Student, Fucilty of nursing / Minia University, Egypt	Awareness of Mental Health Disorders among Students at Minia University, Egypt: A Cross-Sectional Study
Ms. Nada Hamada Elsayed	Bioechnology student, Ain shams university, Egypt	Integrating 16srRNA with multi-omics for high resolution and reproducible microbiome profiling
Dr. Sayeda Abdelrazek Abdelhamid	Researcher, National Research Centre, Egypt	Ecofriendly silver nanoparticles biosynthesis from Penicillium commune NRC 2016-3 as antimicrobial agents for textile materials
Dr. Ikram Benmakhlouf	PhD student in Computer Science from Algeria, Algeria	Toward Accessible AI Healthcare: A Roadmap for Offline-First, On-Device Deep Learning in Medical Image Screening

Materials and Engineering— Session 5

Main Hall

Chairs: Prof. Dr. Amin El-Melegy & Prof Dr. Mahmoud Essam

Speaker	Affiliation / Role	Presentation Title
Regular talks-10 minutes		
Dr. Safaa Hussein Alagamawy	Chemical researcher, Radio Engineering Research Center, Egypt	Evaluating the efficacy of some barium nanocomposites in treating biomicrite limestone
Dr. Ahmed Mahdy Hamed Haggag	Egyptian Petroleum Research institute, Egypt	Catalytic Upcycling of Plastic Waste into Carbon Nanoblades and Carbon Nanodarts with Enhanced Mechano-Bactericidal Activity
Assi. Researcher Asmaa O. Ahmed	Physical Chemistry Department at the National Research Centre, Egypt	Role of Oxygen Vacancies in Enhancing the Hydrogen Evolution Reaction Performance of SrFeO _{3-x} Perovskite Oxides
Ass. Prof. Adel Abdel Reham Ahmed Koriem	Assistant Professor, National Research Centre, Egypt	Interfacial Engineering of CuAlZn Alloy-Reinforced NBR/EPDM Elastomers for Soft Magnetic, Dielectric, and Thermomechanical Applications
Dr. Rasha Mostafa Al-Makhlaway	Digital Signal Processing Laboratory, Computers and Systems Department, Electronics Research Institute (ERI), Cairo, Egypt.	Artificial Intelligence for Next-Generation Wireless Communications: Enabling Intelligent, Adaptive, and Sustainable Networks
Ass.Prof. Ahmed F. Ghanem	Packaging Materials Department, National Research Centre,Egypt	Development of PVA Composite Films for Meat Preservation
Dr. Basant Aboelsaud Elsebai	National Research Centre, Egypt	Zeolite-Infused Nanofibrous Hydrogel for Water Treatment Applications
Ass.Prof. Ahmed N. E. Osman	Associate Professor, National Research Centre, Egypt	Engineered Hybrid Nanocomposites for Safer Healthcare, Cleaner Water, and Sustainable Heritage Preservation



Session 1 Online | 10:00–11:00

Virtual Zoom Platform

Women National Council Session

Speaker Name	Affiliation / Role	Presentation Title
Special Session organized by the National Council for Women — Schedule details to be updated.		

Panel 1: Science diplomacy-Policy, management, Industry perspective

11:00–12:30

Chairs: Dr. Natisha Dukhi & Dr. Ibtissame AZZAOU

Speaker Name	Affiliation / Role	Presentation Title
Prof. Dr. Paul Arthur Berkman	Founder of the Science Diplomacy Center Inc. (SDCI)- USA	Informed Decision-making for Lasting Peace
Dr Angela Liberatore	Former Head of the Scientific Department at the European Research Council	Science as global public good to safeguard other global public goods: the role of science diplomacy.
Dr Amal Kasry	Chief of Basic Sciences, Engineering, Technology & Innovation (BETI) Sciences (SCS) Sector, UNESCO	Connecting Science Across Borders: Access, Capacity and Shared Action
Dr Natisha Dukhi (Moderator)	a Senior Research Specialist at the Human Sciences Research Council- GYA cochair	Science Diplomacy from the Global South: Bridging Evidence, Youth Voice, and Policy
Mrs. Rebone Seleokane	Head of P&C Africa MCO	Supporting women in Sanofi beyond boundaries
Mrs. Alice Berson	Chief Finance Officer	Empowering women through sustainable procurement
Dr. Ibtissame AZZAOU (Moderator)	President and Founder of Parliamentarians for Climate (P4C)	Parliamentary Science Diplomacy: Bridging Evidence, Policy and International Cooperation

Panel 2: Science diplomacy-networking, cultural aspects and Cooperation across borders

12:30–14:00

Chairs: Prof. Dr. Mohd Basyaruddin Abdul Rahman & Dr. Nerina Finetto

Speaker Name	Affiliation / Role	Presentation Title
Prof .Dr. Mohd Basyaruddin Abdul Rahman (Moderator)	Chair of the ISTIC-UNESCO Governing Board	Diplomacy New Currency of Science Diplomacy Empowering the Global South through STI Partnerships
Prof.Dr.Yoko Shimpuku	Professor of Global Health Nursing at Hiroshima University, Japan	Science Diplomacy for Distributive Justice: Lessons from the World Forum for Women in Science – Japan
Mrs Alexandra kinias	Women of Egypt	Egyptian Women: The Power of Purposeful Networking
Ms Paloma Marín-Arraiza	Director of Engagement at ORCID	Data-driven decisions based on ORCID trust markers
Dr Nerina Finetto (Moderator)	Nerina Finetto Founder and CEO Traces&Dreams AB	"Not an Accessory: Why Communication Must Be Foundational to Science"
Prof.Dr. Roberta D'Alessandro	Netherlands- Head of the Linguistics Division at Utrecht University	Your Academic Auntie: mentoring and supporting early career researchers globally
Dr. Noushin Arfatahery	Founder & Director, WISEA Germany	Empowering Women Scientists as Drivers of Inclusive Innovation and Sustainable Development

1-Biology-Medical sciences

Prof Folasade M. Olajuyigbe & Prof. Jibin Sun

14:00–17:00

Speaker Name	Affiliation / Role	Presentation Title
Prof Folasade M. Olajuyigbe (Moderator)	Federal University of Technology, Akure, Nigeria	Enzyme Biotechnology: Catalyzing Sustainable Solutions for a Better Future
Dr. Amna Mehmood	Senior Scientist, Martin Luther University, Germany	Clinico-Genomic Characterization of Breast Cancer: From Whole-Exome Sequencing to Precision Oncology
Ms Hayat Daeia	Dalhousie University, Canada	Brain-Computer Interfaces (BCI): Machine Learning Classification of Neural SSVEP Signals
Dr Zohra Aloui-Zarrouk	Institut Pasteur de Tunis	Bridging Science and Entrepreneurship: The Emergence of Zora Pharm as a Scientific Spin-off for innovative Plant-based Dermaceuticals
Dr Bishayr Hassan Aljaffar	King Faisal General Hospital	Predictors of Exclusive Breast feeding in Employed Mothers
Dr Hameeda Matooq AlJanabi	Dammam Health Network Eastern Health Cluster	Knowledge and Attitudes Toward PICC Line Care Before and After Specialised Training in the Dammam Health Network, Saudi Arabia
Dr Anwar Omar Dawod	University of Dohuk - College of Pharmacy	Monitoring hospitalized elderly patients and the use of polypharmacy in Dohuk: a biochemical evaluation
Prof. Jibin Sun (Moderator)	Professor, Chinese Academy of Sciences, China	Industrial Synthetic Biology, Biofoundry Platforms, and Systems Biotechnology
Dr Iman Abdulmanaf Taha	University of Dohuk, College of Science	Biochemical and Developmental Outcomes in Iraqi Children with Phenylketonuria Following Late Diagnosis and Dietary Intervention.

-2 Materials & Engineering

Speaker Name	Affiliation / Role	Presentation Title
Prof.Dr. Abdallah A. Shaltout (Moderator)	Spectroscopy Department, Physics Research Institute, National Research Centre	Steel Slags Recycling
Ass. Prof. Samar Said Mohamed	Egyptian Petroleum Research Institute	WO3 Anchored on FAU(Y)/AISBA-15 Binary Supports: Impact of Hierarchical Structure on Catalytic Dehydrogenation
Dr. Elzahraa Ahmed Ramadan Elgohary	Photochemistry Department, Chemical Industries Research Institute, National Research Centre (NRC), Egypt	Photocatalytic studies on using nanocomposites based on modified titania for CO2 fixation environmental applications

3 -Environment & Agriculture

Speaker Name	Affiliation / Role	Presentation Title
Prof. Amna Jrra (Moderator)	Independent Researcher, Climate Modeling Expert	Projecting Climate Hazards in Azraq, Jordan: Multi-Scenario Changes in Extreme Events and Socioeconomic Vulnerability
Pof. Dr. Jianwei Zhang	National Key Laboratory of Crop Genetic Improvement Huazhong Agricultural University Wuhan, 430070, China	Toward Green Nutritious Super Rice -- A Rice Pan-genome System and Its Implementation in Genomic Breeding
Dr. Sarra Hechmi	Water Research and Technology Center (CERTE)Tunisia	Scaling Safe Water Reuse in Tunisia: Balancing Agricultural Imperatives against Emerging Contaminant Risks for SDG 6
Ass. Professor . Dina Mohamed Salama Ahmed	Vegetable Research Department, National Research Centre (NRC), Egypt	Nanotechnology in Vegetable Production: Enhancing Productivity and Quality for Sustainable Agriculture
Dr. Heba Kamal El-Kholly	Water Pollution Research Department at the Environmental and Climate Change Research Institute, National Research Centre, Egypt	Synergistic Fe2O3 nanoparticles and chemical pretreatment for enhanced biohydrogen/biogas production from pulp sludge



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Location: National Research Centre, Egypt

Key Halls: Hani El-Nazer Hall | Main Hall | Hall A



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