







The Egyptian Society of Electron Microscopy

INTERNATIONAL CONFERENCE 2025

In Collaboration with **Theodor Bilharz Research Institute Tanta University & Assiut University**

Role of EM in Enlightening the Invisible

14 October 2025

8:00-9:45	Registration		
10:00 a.m 10.05 a.m.	Overview of the day sessions	Emeritus Prof.Soheir Mansy	

Session V

Nanoscale Analysis: AFM & Aberration- Corrected STEM

Chairpersons

Prof. Manal Salman Prof. of Pathology, Faculty of Medicine - Ain Shams University Director of Electron Microscope Unit Ain Shams University Hospital

Prof. Nermine Maysour R	faat Prof. of Polymeric Chemistry the Egyptian Petroleum Research Institute		
10: 10 a.m10:40 a.m	Atomic force microscopy: From imaging to characterization	Prof. Manar Elsayed Abdel-Raouf Prof. of polymer science Head of additives Lab. The Egyptian Petroleum Research Institute.	
10:40 a.m. – 11:10 a.m. 10: 40 a.m11:.10 a.m.	Advances of Aberration-Corrected Scanning Transmission Electron Microscopy	Dr. Hesham El-Sherif Materials Science and Engineering Department, McMaster University, Hamilton, ON, Canada. The Rowland Institute at Harvard, Harvard University, Cambridge, MA, USA	

Session VI EM at the Interface of Applied Research-1

EM at the Interface of Applied Research-1			
Moderator			
Prof. Naglaa Sarhan	Prof. of Histology and Head of Hi	stology Dept. Tanta University	
Chairpersons			
Prof. Ehab El Dabaa Sabi	Medicinal Chemistry Division- Hea	d of Center of Excellence in	
Prof. Doaa Gamal	Recombinant Biopharmaceutic Pro Prof. of Microbiology, Head of Microbiology Research Institute		
Assoc. Prof. Mohamed H	ussein Assoc. Prof. of Urology Head of Uro Research Institute	ology Department Theodor Bilharz	
11:15 a.m11:45 a.m.	Mycobacteria and Microscopes; a Massive Mixture	Associate Prof.Nicole van der Wel Medical Biology Amsterdam institute for immunology and infectious	
10:15 a.m. – 10:45 a.m. Time zone Nertherland	wixture	diseases Head of Electron Microscopy center Amsterdam	
11: 45 a.m. – 12:15 p.m	The Invisible Pathogens in Vegetables and their Human Health Implications	Emeritus Prof. Zakaria Baka Etta. Prof.of Mycology and plant Pathology Dept. of Botany and Microbiology Faculty of Science, Damietta University- New Damietta	
12:15p.m12:45 p.m.	Electron Microscopy in the Characterization and Application of Nano- Formulated Drug Carriers	Prof. Mona AbouSamra Prof. of Pharmaceutics Pharmaceutical Technology Department National Research Center	
12:45 p.m1.15 p.m.	Telocytes'Role-Play in Urinary Bladder Cancer	Dr .Ehab Osama Researcher Lecturer of Pathology &EM Electron Microscopy Research Dept. Theodor Bilharz Research Institute	
	Coffee Break 1:15 – 1: 30 p.	m .	

Coffee Break 1:15 – 1: 30 p.m.

During break documentary video for ESEM will be displayed

Session VII

EM at the Interface of Applied Research-2

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Prof. Naglaa Sarhan Prof. of Histology and Head of Histology Dept. Tanta University

Chairpersons

Emeritus Prof. Tarak AbouShousha Prof. of Pathology, Former Head of Pathology Depart .and Vice

President of TBRI

Emeritus Prof. Hoda Yehia Prof. of Pathology & EM Former Head of EM Depart. TBRI

1: 30 p.m2:00 p.m. 5:30 a.m. – 6:00 a.m. time zone Chicago USA	Development of an AI Histologic Biomarker Exceeding Pathologist Performance for Breast Cancer Prognosis: Lessons Learned and Opportunities for Electron Microscopy Assessment	Dr Mohamed T. Amgad Resident Pathologist Northwestern University Feinberg School of Medicine USA
2.00 p.m 2.30 p.m.	From Micro to Nano: How Electron Microscopy Contributed to my Research Findings.	Emeritus Prof. Soheir Mansy Prof. of Pathology and Electron Microscopy, Theodor Bilharz Research Institute- President of ESEM and president of the Association of TBRI Research Staff, Former Head of EM Dept. TBRI Councilor for the Middle East& North Africa/ the Society for Ultrastructural Pathology

Snack Break 2:30 – 2:45 p.m.

During break documentary video for ESEM will be displayed

Session VII EM and Microorganisms

Moderator

Prof. Naglaa Sarhan Prof. of Histology and Head of Histology Dept. Tanta University

Chairpersons

Emeritus Prof. Soheir Mansy Prof. of Pathology & EM TBRI

Emeritus Prof. Hala Badawy Prof. of Microbiology former Head of Microbiology Dept. TBRI

Emeritus Assoc.Prof Magda Azmi Assoc.Prof. Of Clinical Pathology Microbiology TBRI

2.45 p.m3.15 p.m.	Deep Learning Meets Transmission Electron Microscopy: A New Era in Virus Classification	Dr. Omar Sayouh Researcher Clinical Microbiologist,EM Dept.Director of IPC unit, Theodor Bilharz Research Institute Clinical Microbiology Consultant, US Naval Medical Research Unit-3
3:15 p.m 3: 45 p.m. 8:15 a.m. – 8:45 a.m. Carolina time Zone	EM of Viruses: Specimen Handling, Virus Identification, and Look-Alikes	Prof. Sara E. Miller Department of Pathology Director, Center for Electron Microscopy & Nanoscale Technology Duke Medical Center -USA
3:45 p.m4.15 p.m. 8:45 a.m 9: 15 a.m. Carolina time Zone	Tropical and Subtropical Viruses (Diseases, Etiology, and Identification)	Prof. Sara E. Miller Department of Pathology Director, Center for Electron Microscopy & Nanoscale Technology Duke Medical Center- USA
4.15 p.m. – 4.25 p.m.	e. poster Ethical Considerations in the Integration of Artificial Intelligence into Histopathology Practice: A Narrative Review.	Dr. Nada Shamina Registrar in Chemical Pathology Department of Chemical Pathology, NHS, Nottingham, UK
4:25 p.m. – 4: 30 p.m.	Wrap- up & Notifications	Prof. Soheir Mansy