



## The Egyptian Society of Electron Microscopy

### INTERNATIONAL CONFERENCE 2025

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

Role of Electron Microscopy in Enlightening the Invisible

13 October 2025

8: a.m. : 9:45 a.m

#### Registration and Name Badge Pick-Up

#### Welcome talks

10.00 a.m.-10:05a.m.	<i>Welcome Speech President of ESEM &amp; the Conference</i>	<i>Emeritus Prof. Soheir Mansy</i>
10: 05 a.m. -10:10 a.m.	<i>Welcome Speech of the Acting President of TBRI</i>	<i>Prof. Ahmed AbdelAziz</i>
10: 10 a.m. -10:15 a.m.	<i>Welcome Speech of the President of Tanta University</i>	<i>Prof. Mohamed Hussein Mahmoud</i>
10:15 a.m. -10:20 a.m.	<i>Welcome Speech of the Acting President of Assiut University</i>	<i>Prof. Ahmed El-Minshawy</i>

#### Session I

#### EM and Different Disciplines

#### Chairpersons

<i>Emeritus Prof. Yasser Shabana</i>	<i>Professor and Chairman of Plant Pathology Department Director of Electron Microscopy Unit, Mansoura University</i>
<i>Emer. Prof. Hoda Yehia</i>	<i>Prof. of Pathology &amp; Electron Microscopy, Former Head of Electron Microscopy Research Department-Theodor Bilharz Research Division</i>
<i>Prof. Wafaa Abbas Helmy</i>	<i>Prof. of Pathology Al-Azhar Faculty of Medicine for Girls The Armed Forces College of Medicine</i>

10: 30 a.m.-11:00 a.m.	<i>Electron Microscopy across disciplines: from molecules to materials.</i>	<i>Prof. Naglaa Sarhan Prof.of Histology &amp; Cell Biology Head of Histology and Cell Biology Dept. Faculty of Medicine Tanta University</i>
11:00 a.m. -11: 30 a.m.	<i>Imaging Modes of Transmission Electron Microscopy: Types, Uses, and Advancements</i>	<i>Dr.Hesham El-Sherif Materials Science and Engineering Department, McMaster University, Hamilton, ON, Canada. The Rowland Institute at Harvard, Harvard University, Cambridge, MA, USA</i>
11:30 a.m.-12:00 p.m.	<i>Is it Worth Investing in Electron Microscopy? Understanding the Impact and Potential</i>	<i>Prof. Soheir Mansy Emeritus Prof. of Pathology and Electron Microscopy, Theodor Bilharz Research Institute- President of ESEM and president of the Association of TBRI Research Staff Councilor for the Middle East&amp; North Africa/ the Society for Ultrastructural Pathology</i>
<p style="text-align: center;"><b>Session II</b> <i>Electron Microscopy and Diagnostic Diseases-1</i></p>		
<p><b>Moderator</b></p> <p><i>Prof. Eiman Hasby                      Prof. of Pathology Faculty of Medicine Tanta University</i></p> <p><b>Chairpersons</b></p> <p><i>Prof. Aisha Mansy                      Head of Histology and Cell Biology Dept. – Director of EM Unit Benha University</i>  <i>Assoc. Prof. Karem Salem                      Associate Prof. of Internal Medicine and Nephrology Fayoum University</i></p>		
12: 00 p.m.-12:30 p.m.  [11:00 am-11:30am Berlin time]	<i>Diagnostic Electron Microscopy in Neuropathology – Current status and Perspectives</i>	<i>Dr. med. Carsten Dittmayer Head of Electron Microscopy Dept. of Pathology Consultant Neuropathologist, and Resident in General Pathology Charité – Universitätsmedizin Berlin</i>
12:30 p.m.- 1:00 p.m.	<i>The role of electron microscopy in solving diagnostic challenges in renal diseases: insights from a long-term personal experience</i>	<i>Prof.Wesam Ismail Prof.of Pathology Head of Pathology Department Beni-Suef University</i>

1:00 p.m. – 1:30 p.m	<i>Modern Renal Biopsy Practice and the Integral role of Electron Microscopy</i>	<i>Prof.Lillian W. Gaber. Associate Director of Renal Pathology in the Department of Pathology and Genomic Medicine at Houston Methodist Hospital and Professor of Pathology and Genomic Medicine at Weill Cornell Medical School USA</i>
<b>Coffee Break 1: 30– 1:45 p.m.</b> <b>Documentary Video for ESEM Will be Displayed During Coffee Break</b>		
<b>Session III</b> <b><i>Electron Microscopy and Diagnostic Diseases-2</i></b>		
<b><i>Chairpersons</i></b>  <div style="display: flex; justify-content: space-between;"> <div> <i>Emeritus Prof. Naema Maree Emeritus Prof. Amira Helmy Emeritus Prof. Azza ElShamaa</i> </div> <div> <i>Prof. of Pathology Faculty of Medicine Cairo University Prof. of Clinical Pathology- Hematology Theodor Bilharz Research inst. Prof. of Nephrology former Head of Nephrology Dept. Theodor Bilharz Research Institute</i> </div> </div> <p>.</p>		
1.45 p.m.-2.15 p.m.	<i>The role of electron microscopy beyond immunohistochemistry in muscle biopsy</i>	<i>Emeritus Prof.Nadia Galal El Hefnawy Prof.of Pathology &amp; EM Faculty of Medicine Ain Shams University Former Director of EM Unit of Specialized Hospital Ain Shams University Head of Promotion Committee for Pathology SCU</i>
2.15 p.m -2.45 p.m.	<i>Electron Microscopy and Hematological Disorders</i>	<i>Dr. Ayat S.M.Hassan Assist. Prof.of Clinical Pathology &amp;EM Acting Head of Electron Microscopy Research Dept.Theodor Bilharz Research Institue</i>
2: 45 p.m..-3:15 p.m.	<i>Essential daily electron microscopic tips for diagnostic renal biopsies</i> . .	<i>Assist. Prof .Sarah Hassan Tawfic Assist. Prof. of Pathology &amp; EM Electron Microscopy Research Dept. Theodor Bilharz Research Institute</i>
<b><i>Snack break</i></b> <b><i>3.15 p.m.-3.30 p.m.</i></b>		

**Session IV**  
***Electron Microscopy and Diagnostic Diseases-3***

**Moderator**

*Prof. Eiman Hasby*

*Prof.of. of Pathology Faculty of Medicine Tanta University*

**Chairpersons**

*Emeritus Prof. Soheir Mansy*

*Prof.of Pathology & EM Former Head of EM dept. & Deputy of Clinical Laboratory Research Division , TBRI*

*Emeritus Prof. Azza ElShamaa*

*Prof. of Nephrology former Head of Nephrology Dept.  
Theodor Bilharz Research Institute*

<b>3:30 p.m. –4:00 p.m.</b> <b>8:30 a.m. – 9:00 a.m.</b> <b>Carolina time zone</b>	<b><i>Monoclonal Gammopathy of Renal Significance: Diagnostic Pitfalls</i></b>	<b><i>Prof. David N. Howell Professor and Senior Vice Chair Department of Pathology Duke University Medical Center Past President, Renal Pathology Society</i></b>
<b>4: 00 p.m. –4:30 p.m.</b> <b>9:00 a.m. – 9:30 a.m.</b> <b>Carolina time zone</b>	<b><i>Renal Transplant Pathology: Diagnostic Contributions of Electron Microscopy</i></b>	<b><i>Prof. David N. Howell Professor and Senior Vice Chair Department of Pathology Duke University Medical Center Past President, Renal Pathology Society</i></b>
<b>4::30 p.m.- 4:35p.m.</b>	<b><i>Wrap up &amp; Notification</i></b>	<b><i>Prof.Suheir Mansy</i></b>