## **USCAP 2024, Baltimore MD**

# Society for Ultrastructural Pathology Companion Meeting

Sunday, March 24, 4:30 - 6:30 PM

# **Baltimore Convention Center, BCC Room 301**

#### **Course description**

The application of Electron Microscopy (EM) in surgical pathology diagnostics remains of significant importance in non-neoplastic diseases, and in neoplastic diseases to guide the differential diagnosis when available tissue is limited. In this companion meeting the utility and contribution of ultrastructural studies in guiding the diagnosis of several non-neoplastic diseases. The selected diseases include platelet and storage disorders as EM is considered a gold standard for detecting characteristic subcellular abnormalities in these diseases. In renal pathology EM plays a role in reinforcing the morphologic diagnostic impression and is essential in final diagnosis, categorization and subclassification of certain non-immune and immune complex mediated processes. Among renal diseases podocytopathies are a major cause of nephrotic syndrome, with characteristic ultrastructural findings. Current ultrastructural insights in the formation of amyloid fibrils in mesangial cells will be presented.

#### **Session Chairs**



Moderator
Charles Chan, PhD, MBBS
Concord Repatriation General Hospital
Univ Sydney Medical School
Australia



Moderator **Giovanna M. M. Crisi, MD, PhD**Univ Mass-Chan Medical SchoolBaystate Medical Center

MA, United States

#### **Presentations**

Platelet Electron Microscopy: Platelet Morphology, Storage Pool Disorders, and Sample Preparation for Thin Section and Whole Mount TEM



**Dong Chen**, MD, PhD Mayo Clinic Rochester, MN, United States

### **Ultrastructural Characteristics of Podocytopathies**



Virginie Royal, MD Hopital Maisonneuve-Rosemont, Université de Montréal Montreal, QC, Canada

Fibril Forming Organelles (FFOs). The Machinery that Manufactures Amyloid Fibrils in Mesangial Cells in the Kidney. A Translational Journey



**Guillermo A. Herrera**, MD University of South Alabama Mobile, AL, United States