



 **Ultrastructural Pathology**

 **Included with On Demand**

Society for Ultrastructural Pathology

 Sun, March 23

 4:30 PM - 6:30 PM

 BCEC Room 206 A

 Companion Meeting

 CME: 2

Pediatric Pathology at the Ultrastructural Level and Contributions of Electron Microscopy

Electron Microscopy (EM) in surgical pathology diagnostics remains of significant importance in non-neoplastic diseases. In addition to the essential role that EM plays in medical renal diseases in any age group, in the pediatric population EM is routinely used to evaluate liver diseases, metabolic disorders and storage diseases, mitochondrial disorders, neuromuscular diseases, interstitial lung disease, and primary ciliary dyskinesia, among others. In this companion meeting the utility and contribution of ultrastructural studies in guiding the diagnosis of several non-neoplastic diseases in the pediatric population will be presented. The entities chosen include mitochondrial diseases with presentation of a rare but significant disorder affecting selected population groups, and interstitial lung diseases. The current diagnostic utility of EM includes multiple new applications where EM plays a major role including tissue engineering, regeneration, and remodeling with significant benefits in the pediatric population.

Course Learning Objectives:

Upon completion of this educational activity, the learner will be able to:

- Insight in the application of EM in mitochondriopathies
- The application of EM and the ultrastructural characteristic seen in pediatric interstitial lung diseases
- An overview on new and future applications of EM with emphasis of research in pediatric diseases

Continuing Medical Education

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of The United States and Canadian Academy of Pathology and *Society for Ultrastructural Pathology*. The United States and Canadian Academy of Pathology is accredited by the ACCME to provide continuing medical education for physicians.

The United States and Canadian Academy of Pathology designates this other (live and enduring) activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Session Chairs



Moderator

Giovanna M. Crisi, MD, PhD, University of Massachusetts Medical School-Baystate
Springfield, MA, United States



Moderator

John Hicks, MD, PhD, DDS, Texas Children's Hospital
Houston, TX, United States

Presentations

Mitochondriopathies: The Case of a 7-Month-Old Girl with Jaundice and Elevated Liver Enzymes

Eduardo V. Zambrano, MD, Phoenix Children's Hospital



EM Application in Evaluating Childhood Interstitial Lung Disease

Csaba Galambos, MD, PhD, University of Colorado Anschutz Medical Campus



Tissue Engineering, Regenerative Medicine and Future Application of EM: Focusing on Pediatric Pathology

Giovanna Cenacchi, MD, Alma Mater Studiorum-University of Bologna

