



## ULTRAPATH XIX



### ULTRAPATH XIX

June 25–June 29, 2018

*Hotel Viking*

*Newport, Rhode Island, USA*



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### Program: Pediatric Pathology

#### Sunday, June 24 (6/24/18)

Time	Title
	<b>Welcome to ULTRAPATH XIX</b>
15:00 – 18:00	Registration of UltraPath XIX – VANDERBILT ROOM
18:00 – 20:00	<b>Reception (Viking Hotel Restaurant Patio)</b>

#### Monday, June 25 (6/25/18)

Time	Title	Presenter(s)/Moderator(s)
<b>07:00 – 08:15</b>	<b>Breakfast (Thames Room)</b>	
08:15 – 08:30	Welcome & Introduction	G. Crisi
	<b>Ultrastructural Pathology 101</b>	<b>G. Mierau/E. Wartchow</b>
08:30 – 09:10	Review of Cell Structure	G. Mierau
09:10 – 09:45	Liver Disease	G. Mierau
09:45 – 10:00	Intestinal Disease	G. Mierau
10:00 – 10:15	Open Discussion	G. Mierau & E. Wartchow
<b>10:15 – 10:45</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
10:45 – 11:20	Renal Disease	E. Wartchow
11:20 – 12:00	Respiratory Disease	E. Wartchow

12:00 – 12:30	Update on Surfactant Deficiencies in Pediatric Lung Disease	J. Hicks
<b>12:30 – 13:30</b>	<b>Lunch (Thames Room)</b>	
13:30 – 14:10	Metabolic Storage Disease	G. Mierau
14:10 – 14:35	Hematologic Disease	G. Mierau
14:35 – 15:00	Skin Disease	G. Mierau
15:00 – 15:30	Muscle Disease	E. Wartchow
<b>15:30 – 16:00</b>	<b>Break</b>	
16:00 – 16:35	Management of the EM Service	G. Mierau
16:35 – 17:00	Open Discussion	G. Mierau
<b>17:30</b>	<b>Adjourn</b>	

## Tuesday, June 26 (6/26/18)

Time	Title	Presenter(s)/Moderator(s)
<b>07:00 – 08:15</b>	<b>Breakfast (Thames Room)</b>	<b>E. Wartchow/G. Nunnemacher</b>
08:15 – 09:00	<u>President's Lecture</u> : How Good is Good Enough? Diagnosis/Data from Suboptimal Specimens	S. Miller
09:00 – 09:45	<u>Tribute Lecture</u> : Then and Now – The Legacy of a Pioneer in Ultrastructural Pathology	J. Hicks
09:45 – 10:15	<u>Tribute Lecture</u> : Diagnostic Electron Microscopy and the Influence of Juan Rosai	G. Crisi
<b>10:15 – 10:45</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
	<b>General / Research Session</b>	<b>G. Crisi/D. Howell</b>
10:45 – 11:30	Morphological Markers and Molecular Insights: Diagnosis and Pathogenesis of Heritable Keratinization Disorders	I. Hausser
11:30 – 12:00	Utility of Electron Microscopy in Liver Biopsies from Neonates and Infants: Experience of a Single Children's Hospital (1991- 2017)	M. Warren
12:00 – 12:15	Hepatic Organoids Co-populated with Hepatocytes and Cholangiocytes: Towards Engineered Liver Grafts with Biliary Drainage	E. Hafiz
12:15 – 12:30	Histologic and Ultrastructural Features in Early and Advanced Phases of Zellweger Spectrum Disorder (Infantile Refsum Disease)	M. Warren
<b>12:30 – 13:30</b>	<b>Lunch (Garden Room)</b>	
	<b>Infectious Diseases</b>	<b>E. Pavlisko/N. van der Wel</b>
13:30 – 14:15	How Mycobacteria Cross Membranes and the Blood Brain Barrier	D. Picavet; L. Leeuwen; A. Grootemaat; W. Tigchelaar-Gutter; A.van der Sar; N. van der Wel

14:15 – 14:45	Electron Microscopy in the Diagnosis of Viral Infections: Is it Time to Give it up?	D. Howell; S. Miller
14:45 – 15:15	Poxvirus Versus Herpesvirus? EM to the Rescue	S. Miller
15:15 – 15:30	Lanthanum Deposition in the Gastrointestinal Tract	D. Harrell; M. Feely; N. Rudawski; W. Clapp
<b>15:30 – 16:00</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
	<b>Cytology</b>	<b>S. Pawlak</b>
16:00 – 16:30	EM of Limited Samples in the Practice of Cytology	E. Turbat-Herrera
16:30 – 17:00	Cytologic and Ultrastructural Features of Bronchoalveolar Lavage in Patients with Chronic Granulomatous Disease	M. Warren
<b>17:00</b>	<b>Adjourn</b>	

### Wednesday, June 27 (6/27/18)

Time	Title	Presenter(s)/Moderator(s)
<b>07:00 – 08:30</b>	<b>Breakfast (Thames Room)</b>	
	<b>Neuromuscular Diseases</b>	<b>A. Buckley/D. Anthony</b>
08:30 – 09:15	The Role of Electron Microscopy in the Diagnosis of Congenital Myopathies	A. Huttner
09:15 – 10:00	Inflammatory and Other Acquired Myopathies	P. Pytel
10:00 – 10:15	Mitochondrial Disorders: The Need for Precision Ultrastructural Analysis in Clinical Diagnosis	A. Buckley
<b>10:15 – 10:45</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
10:45 – 11:30	The Role of Electron Microscopy in the Diagnosis and Management of Patients with Lesions of the Pituitary Region: Past, Present, and Future	S. Asa
11:30 – 12:15	Peripheral Nerve: Ultrastructural Morphology and Diagnostic Applications	J. Donahue
12:15 – 12:30	Discussion Session	D. Anthony
<b>12:30 – 13:30</b>	<b>Lunch (Thames Room)</b>	
13:30 – 17:00	Tour of Breakers & Historic Downtown Newport	
17:30	Shuttle BUS pick up for Ocean Cliff resort (Hotel Viking)	
<b>18:00 – 22:00</b>	<b>Society for Ultrastructural Pathology XIX Gala dinner, Ocean Cliff</b>	

### Thursday, June 28 (6/28/18)

Time	Title	Presenter(s)/Moderator(s)
<b>07:00 – 08:15</b>	<b>Breakfast (Thames Room)</b>	
	<b>Pulmonary Diseases</b>	<b>S. Miller/I. Hausser</b>
08:15 – 08:45	Pediatric Pulmonary Neoplasia: Current Perspectives	J. Hicks

08:45 – 09:15	Fiber Analysis of Lung Tissue: An Overview	V. Roggli
09:15 – 09:30	Dusting Off the Numbers of In Situ Particle Analysis: A Twenty-Five Year Experience	J. Carney; E. Pavlisko; T. Sporn; V. Roggli
09:30– 09:45	Dimensions of Elongated Mineral Particles: A study of More Than 570 Fibers From More than 90 Cases with Implications for Pathogenicity and Classification as Asbestiform vs. Cleavage	V. Roggli; C. Green
09:45 – 10:00	Malignant Mesothelioma Secondary to Prior Radiation Therapy for Mesothelioma and Solitary Fibrous Tumor of the Pleura: A Case Report	G. de Ridder; S. McKee; L. Chiriac; S. Mills; V. Roggli
10:00 – 10:15	Malignant Mesothelioma with Indeterminate Lung Fiber Burdens: An Analysis of 24 Cases	E. Pavlisko; T. Sporn; V. Roggli
<b>10:15 – 10:45</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
	<b>Soft Tissue Diseases</b>	<b>G. Crisi/J. Brealey</b>
10:45 – 11:45	Update on Soft Tissue Tumors with Multimodal Diagnostic Techniques	J. Hicks
	<b>Transplant EM and Renal Diseases</b>	
11:45 – 12:30	Electron Microscopy of Transplant Kidney Biopsies	J. Brealey
<b>12:30 – 13:30</b>	<b>Lunch (Thames Room)</b>	
13:30 – 14:00	Electron Microscopy in the Diagnosis of Focal Renal Lesions	D. Howell
14:00 – 14:15	Membranoproliferative Patterns of Glomerular Injury Resolved by Electron Microscopy	S. Gopal, L. Shoemaker, Lawrence, N. Gupta, WL Clapp
14:15 – 14:25	Ultrastructural Identification of a Proximal Tubulopathy Without Crystals in a Relapsed Multiple Myeloma Patient	J. Brealey; Y. Tran; R. Ninnes; A. Abeyaratne
14:25 – 15:00	Proximal Tubulopathies Associated with Monoclonal Light Chains: the spectrum of clinicopathologic manifestations and the value of electron microscopy in their characterization	G. Herrera
15:00 – 15:30	GLCs Interact with a Receptor on Mesangial Cells to Effect Downstream Pathogenic Results: How Electron Microscopy was Instrumental and Crucial to Identify the Light Chain Receptor on MCs	E. Turbat – Herrera; J. Teng; C. Zeng; G. Herrera
<b>15:30 – 16:00</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
16:00 – 16:30	Monoclonal Gammopathies of Renal Significance (MGRS): The Role of Electron Microscopy	G. Herrera
16:30 – 16:45	IgAND?: Three Cases of the Not-So-Common	G. de Ridder; D. Howell
16:45 – 17:15	EM diagnostic challenges: Is what we are seeing ‘real’ or an artefact?	J. Brealey
<b>17:15</b>	<b>Adjourn</b>	

**Friday, June 29 (6/29/18)**

<b>Time</b>	<b>Title</b>	<b>Presenter(s)/Moderator(s)</b>
<b>07:00 – 08:15</b>	<b>Breakfast (Thames Room)</b>	
	<b>New Technologies &amp; EM Applications</b>	<b>D. Howell</b>
08:15 – 08:45	Efficient 3D Characterization of Resin-Embedded Biological Samples Using SBFI-SEM & MED-SEM	Thermo Fisher Scientific / B. Gonzalez
08:45 – 09:15	Benefits of Low Voltage Electron Microscopy as it relates to Ultrastructural Pathology	DeLong American Inc. / J. Lapkovski
09:15 – 10:00	Cryo-Electron Microscopy and its Applications	C. Xu, UMMS
10:00 – 10:15	Discussion session	
<b>10:15 – 10:45</b>	<b>Break (Coffee / Posters &amp; Exhibits)</b>	
10:45 – 11:15	Optimized for Speed: Automated Specimen and Grid Processing for TEM	Microscopy Innovations / T. Strader
11:15 – 11:30	Discussion	
11:30 – 12:45	Business Meeting	
<b>12:45</b>	<b>Adjourn</b>	

#### Poster Presentations:

Title: *Congenital Cutaneovisceral Angiomatosis vs Multifocal Lymphangioendotheliomatosis: Characterization of a Blood Vessel Origin via Histology, Immunohistochemistry and Electron Microscopy for a Novel Disease*

E. Ho, A. Razak, J. Shah, J. Arredondo

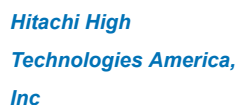
Title: *Chasing the Dream of Being a Savvy Scoper...*

S. Damgard, L. Cummin, J. Grande, J. Charlesworth

Title: *Ultrastructural Identification of a Proximal Tubulopathy Without Crystals in a Relapsed Multiple Myeloma Patient*

J. Brealey; Y. Tran; R. Ninnes; A. Abeyaratne

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