

SOCIETY FOR PEDIATRIC PATHOLOGY 2018 FALL MEETING



OCTOBER 25-28, 2018
GRADUATE HOTEL ANN ARBOR
615 E HURON ST
ANN ARBOR, MI 48104

WELCOME TO ANN ARBOR!

The Society for Pediatric Pathology Fall 2018 meeting has lots in store for everyone, thanks to the hard work of many. I would like to highlight some content that is new for this year's meeting. We are debuting two novel non-CME sessions, both included in the general registration. One is an early morning case-based participatory discussion of pediatric liver neoplasia. Registrants should feel free to wander in and out of this informal session, as a breakfast buffet will be served concurrently. The other session is hoped to be a lively discussion of the pleasures and pitfalls of social media as it applies to pediatric pathology. Please consider joining both!

The registration and turnout for this meeting is excellent. Still, as is typical for the fall meeting, the numbers are small enough to make for an intimate group. This could be a special opportunity to make connections in and out of the meeting halls. We have a good number of trainees registered, including our resident recruitment award winner, Jessica Saunders, M.D., from Vancouver. Trainees will be identifiable by ribbons on their badges. It is especially exciting to welcome them.

The social program plans fluxuated during the preparations for this meeting, but have settled to include a banquet at the meeting hotel and tours that are close by; both are included in the general registration fee. It is hoped that the ease of proximity and the all-in-one registration will encourage participation. There may be extra tickets left, so please see the registration desk right away if you would like to join last-minute!

All of us practicing pediatric pathology invest so much effort, day in and day out. Sitting at the microscope for hours on end can be isolating, and in our profession, the "society" aspect of our professional association can be most welcome. I hope to share that sense with all of you here in Ann Arbor.

Warmly,
Sara O. Vargas, M.D.
SPP President

ABOUT THE SOCIETY

The Society for Pediatric Pathology, founded in 1965, is an educational and scientific organization of physicians and scientists who share a common interest in this vital field. Over 700 members of the Society practice in more than 60 Children's Hospitals, Community Hospitals and University Hospitals of the United States, Canada and throughout the world.

It is the aim of the Society to foster research, education, and practice as they pertain to pediatric pathology, and to provide a forum for discourse among its members.

The Mission of Society for Pediatric Pathology is to perform the following and other related functions:

- To promote expertise, effective teaching and productive research in the practice of pediatric pathology.
- To assist and promote the development and recognition of resident/fellow training programs in pediatric pathology and, through the American Board of Pathology, establish and maintain a means by which pathologists may be certified as having special competency in pediatric pathology.
- To sponsor and promote the education of physicians and others in healthcare related to pediatric pathology.
- To establish and maintain appropriate relationships with other societies and groups of physicians, and other scientists, who share professional interests with the Society.

Society for Pediatric Pathology Administrative Team

Emily Burch, SPP Executive Director

Kismet Saglam, SPP Education Director

Rebecca Pierucci, SPP Conference Manager

Patricia Ferchland-Bingham, SPP Education Manager

James Cafiero, SPP Administrator

SPP Officers

President	Sara Vargas
Past-President	Miguel Reyes-Múgica
President-Elect	Charles Timmons
Secretary	Fusun Gundogan
Treasurer	Linda Ernst

Board Members	Eduardo Zambrano (2019)
	Hal Hawkins (2019)
	Gino Somers (2020)
	Shamlal Mangray (2020)
	Rebecca Baergen (2021)
	Megan Dishop (2021)
	Laura Finn (2022)
	Jim Wright (2022)

Committee Chairs

Research & Awards	Gino Somers (2019)
Education	Sanda Alexandrescu (2022)
Professional Development	Raja Rabah (2021)
Finance	Sarah Johnson-Welch (2022)
Nominating	Miguel Reyes Múgica
Perinatal	Debra Heller (2021)
Publications	Monique De Paepe (2022)
Informatics and Communications	Jason Jarzembowski (2022)

2018 Fall Meeting Program Chairs

Education	Sanda Alexandrescu
Abstracts	Jefferson Terry
Symposium	Raja Rabah
CME Advisor	Lili Miles

Society for Pediatric Pathology
355 Lexington Avenue, 15th Floor
New York, NY 10017
Telephone: 212-297-2196
Fax: 212-297-2159
Email: spp@kellencompany.com
Website: <http://www.spponline.org/>

MEETING NEEDS ASSESSMENT

The practice of pediatric pathology requires up-to-date knowledge of the diseases affecting children, including their scientific basis, clinical spectrum, pathologic classification, and current research activities. The Society for Pediatric Pathology Annual Meeting is intended as an ongoing resource to meet the educational needs of pediatric pathologists, general pathologists whose practices include pediatric pathology, pediatric pathology fellows, and pathology residents.

MEETING OBJECTIVES

Upon completion of this meeting, learners should be able to:

- Discuss recent advancements in research and practice related to the biology, characterization and/or diagnosis of pediatric disease.
- Identify areas with recent significant advancement in the practice of pediatric pathology.
- Implement diagnostic and consultative management updates in pediatric pathology into practice.
- Summarize clinicopathologic differential diagnoses and pathologic processes of perinatal and pediatric disorders and their complications, as well as their treatments and possible outcomes.

DISCLOSURE OF CONFLICTS OF INTEREST

Disclosure Policy

The Society for Pediatric Pathology requires faculty and members of the planning committee to disclose whether or not they have any relevant commercial relationships or if they will be discussing unlabeled and/or investigational uses of any products, pharmaceuticals, or medical devices. This must be made known in advance to the audience in accordance with the ACCME Standards of Commercial Support guidelines.

Program Committee Disclosures

Every person who is involved in the planning of this CME program has been asked to provide information regarding any financial relationships with a commercial interest as defined by the ACCME. The following program committee members have indicated that they have financial relationships to disclose. They have agreed to disclose this to participants. All other program planners have nothing to disclose.

First	Last	Financial Disclosure
Kandi	Stallings-Archer	Amirsys/Elsevier; author
Michael	Covinsky	Walgreen Boots Alliance Stockholder, Merck Stockholder
Selene	Koo	Johnson and Johnson, Stockholder
Benjamin	Wilkins	Merck and Co, employee and shareholder (spouse) Genmab Inc, employee and shareholder (spouse)

2018 Fall Meeting Faculty Disclosures

All faculty members are required to disclose any financial relationships with a commercial interest as defined by the ACCME. The following faculty indicated that they have financial relationships to disclose. They have agreed to disclose this to participants. Any other faculty disclosures not yet received will be included in a program addendum.

First	Last	Financial Disclosure
Ruth Ann	Luna	Bio-Rad, Consultant Finch Therapeutics, Consultant Quadrant Biosciences, Advisory board

Unlabeled/Investigation Uses of Products or Devices

All faculty named in this program have completed content validation forms and indicated they would not be discussing unlabeled or investigational uses of any products or devices.

CONTINUING MEDICAL EDUCATION ACCREDITATION

Accreditation Statement

The Society for Pediatric Pathology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement – SPP Fall Meeting

The Society for Pediatric Pathology designates this live activity for a maximum of 14.25 *AMA PRA Category 1 Credit(s)*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

International Physicians

The American Medical Association has determined that physicians not licensed in the US who participate in this CME activity are eligible for *AMA PRA Category 1 Credit(s)*™.

Health Professionals

Health Professional participants (including residents and fellows-in-training) may claim hours to receive a Certificate of Participation for an activity designated for *AMA PRA Category 1 Credit(s)*™.

CME Credits

Certificates of continuing medical education *AMA PRA Category 1 Credits*™ will be issued through the Society for Pediatric Pathology. CME credits will only be awarded after completion of an online evaluation form.

AMA PRA Category 1 Credits™ offered Fall 2018:

Scientific Sessions	5.75 credits
Clinical Symposia	3.5 credits
Perinatal Symposium	3.5 credits
COG Pathology Update	0.75 credits
Lotte Strauss Award Lecture	0.75 credits

An evaluation must be completed prior to claiming CME credit for the various offerings. The evaluation forms, CME claim forms and SAM post-tests can be accessed through the SPP website: www.spponline.org.

SELF-ASSESSMENT MODULE CREDITS

ABP - Continuing Certification Program (formerly known as Maintenance of Certification (MOC)): The SPP is accredited by the American Board of Pathology (ABP) to offer SAM credits for Part II (Self-Assessment Modules) of the American Board of Pathology Continuing Certification Program (formerly known as Maintenance of Certification). SAM credits are being offered for symposia and the COG Update Lecture. A maximum of 7.75 credits are available. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Registration Hours are as follows:

Thursday, October 25, 2018	7:00 AM - 6:00 PM
Friday, October 26, 2018	7:00 AM - 5:00 PM
Saturday, October 27, 2018	7:00 AM - 12:00 PM
Sunday, October 28, 2018	7:00 AM - 12:00 PM

**2018 FALL MEETING PROGRAM AGENDA
OCTOBER 25-28, 2018
SOCIETY FOR PEDIATRIC PATHOLOGY
THE GRADUATE HOTEL
ANN ARBOR, MI**

Thursday, October 25, 2018

Committee Meetings

Meetings denoted with asterisk (*) are open to all attendees.

7:00 AM-6:00 PM	Registration Open	Regency Foyer
8:00 AM-10:00 AM	Executive Committee Meeting	Regency East
10:30 AM-2:00 PM	Finance Committee Meeting*	Regency East
1:00 PM-2:00 PM	Publications Committee Meeting*	Terrace East
1:00 PM-4:00 PM	Education Committee Meeting	Regency West
1:30 PM-3:00 PM	Research & Awards Committee Meeting	Terrace West
2:00 PM-3:00 PM	Professional Development Committee Meeting*	Terrace East
3:00 PM-4:00 PM	Perinatal Committee Meeting*	Terrace East
3:00 PM-4:00 PM	Informatics and Communications Committee*	Terrace West
4:00 PM-6:00 PM	Slide Survey Subcommittee Meeting	Terrace West
4:00 PM-6:30 PM	Board of Directors Meeting	Terrace East
6:30 PM-8:00 PM	Welcome Reception	Terrace Patio

Friday, October 26, 2018

7:00 AM-5:00 PM	Registration Open	Regency Pre Function
7:00 AM-5:00 PM	Exhibits Open	Regency Pre Function
7:00 AM-5:00 PM	Speaker Preview Area Open	Regency Pre Function
7:00 AM-5:00 PM	Posters Available for Viewing	Huron
7:00 AM-8:00 AM	Continental Breakfast for All Attendees	Regency Pre Function
7:00 AM-8:00 AM	New Member/Trainee Breakfast	Allan Rumsey Supper Club
7:00 AM-8:00 AM	**Difficult Diagnosis in Pediatric Liver Tumors – interactive session Sarangarajan Ranganathan, MD	Terrace West
8:00 AM-8:05 AM	Welcome Sara O. Vargas, MD, and Charles Parkos, MD, PhD	Regency Ballroom
8:05 AM-8:50 AM	COG Pathology Update Mariana Cajaiba, MD	Regency Ballroom
8:50 AM-10:20 AM	Platform Session 1 “Tumor Molecular Pathology”	Regency Ballroom
10:20 AM-10:45AM	Poster Viewing and Coffee Break	Huron
10:45 AM-12:00 PM	Platform Session 2 “Pediatric Pathology”	Regency Ballroom
12:00 PM-1:30 PM	Lunch (on own)	

1:30 PM-2:30 PM	Platform Session 3 “Perinatal Pathology”	Regency Ballroom
2:30 PM-3:30 PM	Poster Discussion 1 “Pediatric Pathology”	Regency Ballroom
3:30 PM-3:45 PM	Poster Viewing and Coffee Break	Huron
3:45 PM-4:45 PM	Poster Discussion 2 “Pediatric and Perinatal Pathology”	Regency Ballroom
5:00 PM-5:30 PM	2018 Lotte Strauss Award Lecture Ruth Ann Luna, PhD, MB (ASCP) ^{cm}	Regency Ballroom
5:30 PM-5:45 PM	Awards	Regency Ballroom
5:45 PM-6:15 PM	#socialmedia for @Pathologists** Chandra Krishnan, MD, and Jason Jarzembowski, MD	Terrace West
5:45PM-6:30 PM	Perinatal Business Meeting (open to all SPP members)	Regency Ballroom
7:00 PM-8:30 PM	Perinatal Slide Session** Moderator: Amer Heider, MD	Regency Ballroom

**Non-CME group discussion—all meeting registrants welcome.

Saturday, October 27, 2018

7:00 AM-12:00 PM	Registration Open	Regency Pre Function
7:00 AM-8:00 AM	Continental Breakfast for All Attendees	Regency Pre Function
7:00 AM-12:00 PM	Posters Available for Viewing	Huron
7:00 AM-12:00 PM	Speaker Preview Area Open	Regency Pre Function
7:00 AM-12:00 PM	Exhibits Open	Regency Pre Function

Symposium

8:00 AM-12:00 PM	Symposium: Quality, Patient Safety and Value Creation from a Pathology Platform	Regency Ballroom
8:00 AM-8:05 AM	Welcome to the Symposium Raja Rabah, MD	
8:05 AM-8:45 AM	Implementation of LEAN Thinking: One Health System's Journey John E. Billi, MD	
8:45 AM-9:25 AM	Making Health Care Safe for Children: Creating Value in Pediatric Care Delivery Through Alignment & Collaboration Valerie P. Opipari, MD	
9:25 AM-10:05 AM	The Roles of Teamwork, Technology and Culture in Improving Diagnosis: Patient and Family Centered Care (PFCC) Jeffrey L. Myers, MD	
10:05 AM-10:35 AM	Poster Viewing and Coffee Break	Regency Pre Function
10:35 AM-11:15 AM	Laboratory Utilization: Laboratory Stewardship: Early Lessons from an Academic Pathology Department with a Dedicated Resource for Quality and Health Improvement Scott R. Owens, MD	
11:15 AM-11:45 AM	Defining and Creating Value in Pediatric Pathology Raja Rabah, MD	
11:45 AM-12:00 PM	Panel Discussion	
12:00 PM	Dismantle Posters	Huron

Social Program (ticketed tour and banquet)

12:20 PM - 12:30 PM	Pickup: Graduate Hotel – 615 E Huron St., Ann Arbor MI <i>Buses depart from hotel lobby at 12:30 PM for this tour.</i>	
12:45 PM – 1:30 PM	Lunch at the Department of Pathology at NCRC	
1:30 PM – 2:45 PM	Tour of the Department of Pathology at NCRC	
2:45 PM – 4:30 PM	525 S State St, Ann Arbor – University of Michigan Museum of Art <i>Buses depart from the Department of Pathology at NCRC at 2:55 PM for art museum</i>	
4:30 PM – 5:00 PM	Return to the Graduate Hotel Ann Arbor for Banquet – 615 E Huron St., Ann Arbor MI <i>Buses depart from the museum at 4:40 PM to return to Graduate Hotel</i>	
6:30 PM – 7:30 PM	Reception at the Graduate Hotel Ann Arbor	Terrace Ballroom
7:30 PM – 9:30 PM	Banquet at the Graduate Hotel Ann Arbor	Terrace Ballroom
9:30 PM	Banquet Concludes	

Sunday, October 28, 2018

7:00 AM-12:00 PM	Perinatal Symposium Registration Open	Regency Pre Function
7:00 AM-8:00 AM	Perinatal Symposium Breakfast	Regency Pre Function
8:00 AM-12:00 PM	Perinatal Symposium: Updates on Congenital Malformations	Regency Ballroom
8:00 AM-8:15 AM	Welcome Amer Heider, MD	
8:15 AM-9:00 AM	Genetic Testing Update: single gene, panels, banking (who orders what, when, and how?) Marcie Treadwell, MD, and Jessica Smith, MD	
9:00 AM-9:45 AM	Update on Whole Exome Sequencing in Fetal Demise and Malformations Marcie Treadwell, MD, and Jessica Smith, MD	
9:45 AM-10:15 AM	Coffee Break	Regency Pre Function
10:15 AM-11:00 AM	Prenatal Imaging: Recent Updates Lori J. Day, MD, and Maria Ladino-Torres, MD	
11:00 AM-11:45 AM	Pathologic Examination of the Fragmented Fetus Linda M. Ernst, MD, MHS	
11:45 AM-12:00 PM	Perinatal Symposium Panel Discussion and Conclusion	

SPP Fall Meeting Tour & Banquet

Michigan Medicine Department of Pathology at NCRC &

University of Michigan Museum of Art Tour

Saturday, October 27 - 12:30pm – 4:30pm

Shuttle for the Michigan Medicine Department of Pathology and University of Michigan Museum of Art will board beginning at 12:20 pm. Please meet in the lobby for boarding.

Tours are included in the registration fee, however quantities are limited and available on a first-come, first-serve basis.

Tickets may still be available; please stop by the SPP Registration Desk for availability.

Lunch will be provided for tour attendees at the Michigan Medicine Department of Pathology prior to beginning the tour.

Following the medical facility tour, the shuttles will continue on to 525 S State St for a tour of the University Of Michigan Museum Of Art. Shuttle will depart for return to the Graduate Hotel at 4:30pm

Banquet at the Graduate Hotel Ann Arbor

Saturday, October 27 - 6:30pm – 9:30pm

The banquet is included in the registration fee, however quantities are limited and available on a first-come, first-serve basis.

Tickets may still be available; please stop by the SPP Registration Desk for availability.

Reception at the Graduate Hotel begins at 6:30pm with dinner following at 7:30pm in the Terrace Ballroom.

- 9:20 AM-9:35 AM 3 **A Somatic Activating NRAS Mutation Associated with Kaposiform Lymphangiomatosis**
S Barclay¹, K Inman², V Luks², J McIntyre³, A Al-Ibraheemi², A Church², A Perez-Atayde², S Mangray⁴, S Fishman², A Alomari², G Chaudry², C Trenor², D Adams², H Kozakewich², K Kurek¹; ¹Alberta Children's Hospital Research Institute, Calgary, Canada; ²Boston Children's Hospital, Boston, Massachusetts; ³Tom Baker Cancer Centre, Calgary, Canada; ⁴Brown University, Providence, Rhode Island
- 9:35 AM-9:50 AM 4 **DOG1 Expression in NTRK-Rearranged Mesenchymal Tumors**
C Boecking¹, E Rudzinski², J Davis³; ¹University of California, San Francisco, San Francisco, California; ²Seattle Children's Hospital, Seattle, Washington; ³Oregon Health & Science University, Portland, Oregon
- 9:50 AM-10:05 AM 5 **Loss of BRG1 (SMARCA4) Expression in a Non-CNS, Non-Renal Tumor Cohort**
J Saunders², X Wang², M Harvey², L Armstrong², C Dunham², T Ng³, J Bush¹; ¹BC Children's Hospital, Vancouver, Canada; ²BC Children's and Women's Hospital, University of British Columbia, Vancouver, Canada; ³Vancouver General Hospital, University of British Columbia, Vancouver, Canada
- 10:05 AM-10:20 AM 6 **The Impact of Molecular Testing on the Histologic Diagnosis of Pediatric CNS Tumors**
L Parsons, A Segura, M Lawlor, J Jarzembowski; Children's Hospital of Wisconsin, Milwaukee, Wisconsin
- 10:20 AM-10:45 AM **Break and Poster Viewing** **Huron**
- Platform Session 2: "Pediatric Pathology"** **Regency Ballroom**
- Moderators:** **Jonathan Bush, MD**, BC Children's Hospital, Vancouver, BC, Canada
Raffaella Morotti, MD, Yale School of Medicine, New Haven, CT
- 10:45 AM-11:00 AM 7 **Towards A More Accurate Characterization of Histiocytoid Cardiomyopathy (HC): Implicating New Genes in the NDUF Family And Renaming the Condition**
B Shehata; Children's Hospital of Michigan, Detroit, Michigan
- 11:00 AM-11:15 AM 8 **Dissecting the Cardiac Conduction System: Is it Worthwhile?**
S Tan¹, M Fritsch², S White³, N Arva¹; ¹Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois; ²University of Wisconsin School of Medicine, Madison, Wisconsin; ³Cook County Medical Examiner's Office, Chicago, Illinois
- 11:15 AM-11:30 AM 9 **Calretinin-Immunopositive Mucosal Neurites in the Squamocolumnar Junction: A Supplemental Diagnostic Technique for Hirschsprung Disease**
S Logan¹, S Caltharp², H Yin², H Rytting²; ¹Emory University, Atlanta, Georgia; ²Children's Healthcare of Atlanta, Atlanta, Georgia
- 11:30 AM-11:45 AM 10 **Clinical and Histologic Features of Barret's Esophagus in a Pediatric Population**
S Tan, N Arva, H Melin-Aldana; Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, Illinois
- 11:45 AM-12:00 PM 11 **Sources of Error in Pediatric Surgical Pathology: A Review of Amended Reports**
P Kreiger; The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania
- 12:00 PM-1:30 PM Lunch on own

Platform Session 3: “Perinatal Pathology”**Regency Ballroom****Moderators:**

Debra Heller, MD, Rutgers New Jersey Medical School, Newark, NJ
Robyn Reed, MD, PhD, Children’s Hospital of Minnesota, Minneapolis, MN

- 1:30 PM-1:45 PM 12 **Diagnostic Yield by Indication for Submission of Singleton Placentas from Term Births**
Y Zhou¹, S Ravishankar¹, G Luo², R Redline¹; ¹University Hospitals Cleveland Medical Center, Cleveland, Ohio; ²Children's Healthcare of Atlanta, Atlanta, Georgia
- 1:45 PM-2:00 PM 13 **Do Increased Aspirated Amniotic Fluid Squames Correlate with Acute Fetal Asphyxia? An Autopsy Study.**
S Jacques, F Qureshi; Harper University Hospital/Wayne State University School of Medicine, Detroit, Michigan
- 2:00 PM-2:15 PM 14 **Utilization of a Synoptic Report to Improve Placental Pathology Examination**
M Leckie¹, S Benton², D El Demellawy³, J Sim⁴, A Lafreniere⁴, D Grynspan⁵, S Bainbridge⁶; ¹University of Ottawa, Faculty of Health Sciences, Ottawa, Canada; ²University of Ottawa, Faculty of Medicine, Ottawa, Canada; ³Children's Hospital of Eastern Ontario, Department of Pathology, Ottawa, Canada; ⁴The Ottawa Hospital, Department of Anatomical Pathology, Ottawa, Canada; ⁵Children's Hospital of Eastern Ontario, Department of Pathology, Ottawa, Canada; ⁶University of Ottawa, Faculty of Health Sciences, Ottawa, Canada
- 2:15 PM-2:30 PM 15 **Gastroschisis is Associated with Placental Distal Villous Immaturity**
B Ruschkowski¹, M Leckie¹, A Lafreniere², D El Demellawy³, D Grynspan³; ¹University of Ottawa Faculty of Medicine, Ottawa, Canada; ²University of Ottawa, Department of Pathology, Ottawa, Canada; ³Children's Hospital of Eastern Ontario, Department of Pathology, Ottawa, Canada

Poster Discussion 1: “Pediatric Pathology”**Regency****Ballroom****Moderators:**

Daniel Boue, MD, PhD, Nationwide Children’s Hospital, Columbus, OH
Raja Rabah, MD, Director and Professor, Department of Pathology, Michigan Medicine, CS Mott and VonVoiglander Women's Hospitals

- 2:30 PM-2:35 PM 16 **A Method for Identification and Localization of Bacteria in Formalin Fixed Paraffin Embedded Crohn’s Disease Biopsies**
J Terry¹, G Gloor²; ¹BC Children's Hospital, Vancouver, Canada; ²University of Western Ontario, London, Canada
- 2:35 PM-2:40 PM 17 **Diagnostic Value of BRAF VE1 Immunohistochemistry As a Reliable Marker of Neoplasms Harboring BRAF V600E Mutation in Pediatric and Histiocytic Neoplasms.**
O Lopez Nunez¹, L Schmitt², J Picarsic¹; ¹UPMC Department of Pathology / Children’s Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania; ²Children’s Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania
- 2:40 PM-2:45 PM 18 **H3K27me3 in the Pathologic Investigation of Disorders of Sexual Development**
N Shelman, S Vargas; Boston Children's Hospital, Boston, Massachusetts
- 2:45 PM-2:50 PM 19 **Significance Of Glutamine Synthetase Expression In Hepatoblastomas**
S Chandrashekar¹, S Ranganathan²; ¹A.T.Still University School of Osteopathic Medicine, Mesa, Arizona; ²UPMC Children's hospital of Pittsburgh, Pittsburgh, Pennsylvania

- 2:50 PM-2:55 PM 20 **Analysis of MOC31 (Epcam) Expression in Hepatoblastomas**
O Lopez Nunez, S Ranganathan; UPMC Department of Pathology / Children's Hospital of Pittsburgh of UPMC, Pittsburgh, Pennsylvania
- 2:55 PM-3:00 PM 21 **Pseudoglycogen Inclusions of Hepatocytes: Diverse Contexts, Contents, and Types**
K VandenHeuvel, K Bove; Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio
- 3:00 PM-3:05 PM 22 **Fantastic Yeasts and Where to Find Them - The Pathology of Neonatal Non-Albicans Candidiasis**
C Hemedez, E Trail-Burns, Q Mao, S Chu, S Shaw, J Bliss, M De Paepe; Women & Infants Hospital, Providence, Rhode Island
- 3:05 PM-3:10 PM 23 **Aspiration Cytology of Cystic Bone Lesions in Pediatric Patients**
L Biederman, C Collins, S Vargas; Boston Children's Hospital, Boston, Massachusetts
- 3:10 PM-3:15 PM 24 **High Concordance Between FUS-CREBCL2 And 1 Fusion Proteins and MUC4 Expression Of Histologically Characteristic Low-Grade Fibromyxoid Sarcoma (LGFMS): Analysis of 13 Cases.**
J Furman, J Poulik, X Liu, D Alessio, M Gaied, B Shehata; Children's Hospital of Michigan, Detroit, Michigan
- 3:15 PM-3:20 PM 25 **Retinoblastoma: A Review of 84 Cases from a Single Institution from 1983-2017 with Emphasis in the Genetic Prognostic Factors and Outcome**
R Dandar, B Shehata; Children's Hospital of Michigan, Detroit, Michigan
- 3:20 PM-3:25 PM 26 **Clinical, Pathological and Loss of Heterozygosity Differences in Wilms Tumors between Asian and Non-Asian Children**
B Loke¹, M Wong², K Tawng², K Chik Hong², J Sudhanshi², D Lian², E Wagner³, Y Zou⁴, E Ganesan⁴, S Sim², Y Lee², F Chin⁵, M Chan², A Tan², B Teh⁵, S Soh², K Chang², A. Loh²; ¹Department of Biological Sciences, National University of Singapore, Singapore; ²KK Women's and Children's Hospital, Singapore; ³Nationwide Children's Hospital, Columbus, Ohio; ⁴National University of Singapore, Singapore; ⁵National Cancer Centre Singapore, Singapore
- 3:25 PM-3:30 PM 27 **Is FNAC Beneficial in Evaluation of Mass Lesions in Pediatric Population?**
S Hafeez, M Fiel-Gan, F Balarezco; Hartford Hospital, Hartford, Connecticut
- 3:30 PM-3:45 PM **Break and Poster Viewing** **Huron**
- Poster Discussion 2: "Perinatal and Pediatric Pathology"** **Regency**
- Ballroom**
- Moderators:** **Michael Covinsky, MD, PhD**, University of Texas-Houston, Houston, TX
Lauren Parsons, MD, Milwaukee, WI
- 3:45 PM-3:50PM 28 **Proximal Collecting Tubule Deficiency in Angiotensin-Converting Enzyme Inhibitor and Angiotensin II Receptor Blocker Fetopathy**
J Saunders, J Ting, C Mammen, J Terry, J Bush; BC Children's and Women's Hospital, University of British Columbia, Vancouver, Canada
- 3:50 PM-3:55 PM 29 **Correlating Magnetic Resonance Imaging Findings with Placental Pathology**
C Bockoven, P Venkatasubramanian, A Wyrwicz, T Victor, L Ernst; NorthShore University HealthSystem, Evanston, Illinois

- 3:55 PM-4:00 PM 30 **Bone Growth in Intrauterine Growth Restriction: A Correlative Histological and Micro-CT Study**
P Shannon¹, M Grynepas²; ¹Department of Pathology and Laboratory Medicine, Mount Sinai Hospital, Toronto, Canada; ²Research Institute Mount Sinai Hospital, Toronto, Canada
- 4:00 PM-4:05 PM 31 **Environmental Influences on Chronic Villitis of Unknown Etiology**
WITHDRAWN
J Goldstein¹, D Aronoff²; ¹Northwestern Memorial Hospital, Chicago, Illinois; ²Vanderbilt University, Nashville, Tennessee
- 4:05 PM-4:10 PM 32 **Immunohistochemical Profile of Chronic Inflammatory Lesions of the Placenta**
M Hakar¹, E Miller¹, L Ernst²; ¹Northwestern University Feinberg School of Medicine, Chicago, Illinois; ²NorthShore University HealthSystem, Evanston, Illinois
- 4:10 PM-4:15 PM 33 **Maternal Vascular Malperfusion Dilemma**
F Gundogan¹, A Bingham², K Rand³, C Hemedez¹, A Laptook²; ¹Women and Infants Hospital Department of Pathology, Providence, Rhode Island; ²Women and Infants Hospital Department of Pediatrics, Providence, Rhode Island; ³The Warren Alpert Medical School of Brown University, Providence, Rhode Island
- 4:15 PM-4:20 PM 34 **An Immunohistochemical Re-evaluation of Placental "Adrenocortical" Heterotopias**
A Heerema-McKenney¹, H Pinar²; ¹Pathology and Laboratory Medicine Institute, Cleveland Clinic, Cleveland, Ohio; ²Division of Perinatal and Pediatric Pathology, Providence, Rhode Island
- 4:20 PM-4:25 PM 35 **Mismatch Repair Gene Immunohistochemistry in Products of Conception Can Diagnose Congenital Constitutional Mismatch Repair Deficiency**
C Stefanovici¹, M Rahimi², M De Bigio², M Dupre¹; ¹University of Manitoba/Shared Health Services, Winnipeg, Canada; ²University of Manitoba, Winnipeg, Canada
- 4:25 PM-4:30 PM 36 **Perinatal Mortality Audit in the Emilia-Romagna Region Within the Period 2014-2016: The First Italian Experience**
P Bonasoni¹, G Po², F Monari², F Facchinetti²; ¹Arcispedale Santa Maria Nuova, Reggio Emilia, Italy; ²Policlinico Modena, Modena, Italy
- 4:30 PM-4:35 PM 37 **Increasing the Value of Autopsies in Patients With Brain Tumors in the Molecular Era**
J Ahrendsen², M Filbin³, S Chi³, P Manley³, K Wright³, P Bandopadhyay³, M Kieran³, R Jones³, K Ligon², S Alexandrescu¹; ¹Boston Children's Hospital, Chestnut Hill, Massachusetts; ²Department of Pathology, Beth Israel Deaconess Medical Center, Boston, Massachusetts; ³Department of Pediatric Oncology, Dana Farber Cancer Institute, Boston, Massachusetts
- 4:35 PM-4:40 PM 38 **A Novel Tetratricopeptide Repeat Domain 7A (TTC7A) Mutation in a Newborn with Multiple Intestinal Atresia and Combined Immunodeficiency**
Jessica Saunders¹, Evica Raican-Separovic², Teresa Smolarek³, Alexio Muise⁴, Anna Lehman², Jonathan Bush¹; ¹Department of Pathology and Laboratory Medicine, University of British Columbia, ²Department of Medical Genetics, University of British Columbia, ³Cincinnati Children's Cytogenetic and Molecular Genetics Laboratories, Cincinnati Children's Hospital, ⁴ Department of Pediatrics and Biochemistry, University of Toronto

4:40 PM-4:45 PM 39 **A Primary Epithelioid Vascular Tumor of Bone with Atypical Features and FOS Gene Rearrangement: A Case Report**
C Gestrich, S Saab; University Hospitals/Case Western Reserve University, Cleveland, Ohio

4:45 PM-5:00 PM **Break and Poster Viewing** **Huron**

2018 Lotte Strauss Award Lecture **Regency Ballroom**

5:00 PM-5:45 PM Distinct Microbiome-Neuroimmune Signatures Correlate With Functional Abdominal Pain in Children with Autism Spectrum Disorder
Ruth Ann Luna, PhD, MB(ASCP)cm, Texas Children's Microbiome Center Texas Children's Hospital, Houston, TX

At the end of this presentation, participants should be able to:

- Explain the potential role of the microbiome-gut-brain axis in autism spectrum disorder
- Describe how changes in the microbiome correlate with changes in GI symptoms and behavior
- Assess the utility of multi-omic approaches for identification of complex clinical phenotypes within the autism spectrum

5:45 PM – 6:15 PM #socialmedia for @Pathologists** **Terrace West**
Chandra Krishnan, MD, and Jason Jarzembowski, MD
Join Drs. Krishnan and Jarzembowski for a lively group discussion on the pleasures and pitfalls of social media in pediatric pathology. Open to all meeting registrants (no CME credits awarded).

5:45 PM – 6:30 PM Perinatal Business Meet (open to all SPP members) **Regency Ballroom**
Debra Heller, MD, Chair, Perinatal Committee
Join colleagues interested in furthering Society missions related specifically to the advancement of perinatal pathology. Open to all SPP members (no CME credits awarded).

7:00 PM - 8:30 PM Perinatal Slide Session (No CME) **Regency Ballroom**
Moderator: Amer Heider, MD, Michigan Medicine, Ann Arbor, MI

Saturday October 27, 2018

8:00 AM-12:00 PM **Symposium:**

**Regency
Ballroom**

Quality, Patient Safety and Value Creation from a Pathology Platform

Organizer: **Raja Rabah, MD**, University of Michigan Medical Center, Professor and Director, Pediatric and Perinatal Pathology, Ann Arbor, MI

At the end of this session, participants should be able to:

- Recognize the role of pathologists in diagnosis, quality, patient safety and providing Patient and Family Centered Care (PFCC)
- List the basic principles of LEAN thinking (aka scientific problem solving) and describe how LEAN thinking applies to everyday problems in healthcare
- Extrapolate the importance of the patient experience and outcomes rather than simply cost containment

8:00 AM-8:05 AM Welcome to the Symposium

Raja Rabah, MD, University of Michigan Medical Center, Professor and Director, Pediatric and Perinatal Pathology, Ann Arbor, MI

8:05 AM-8:45 AM Implementation of LEAN Thinking: One Health System's Journey

John E. Billi, MD, Professor, Health Management and Policy, School of Public Health, Professor of Internal Medicine & Medical Education and Associate Vice President for Medical Affairs, Medical School, Michigan Medicine

At the end of this presentation, participants should be able to:

- List the basic principles of LEAN thinking (aka scientific problem solving)
- Appraise how lean thinking applies to everyday problems in healthcare
- Describe the role of leader in a continuously learning organization
- Apply experiences to practice using this model

8:45 AM-9:25 AM Making Health Care Safe for Children: Creating Value in Pediatric Care Delivery Through Alignment & Collaboration

Valerie P. Opipari, MD, Ravitz Foundation Professor of Pediatrics and Communicable Diseases Chair, Department of Pediatrics Physician-in-Chief, C.S. Mott Children's Hospital, Michigan Medicine

At the end of this presentation, participants should be able to:

- State how systems-based practice and integrated care models can impact care outcomes, quality, efficiency and costs
- Recall the differences between Lean Production Models and Integrated Care Models in the health care setting
- Evaluate the complexity of various care model approaches and the limitations to successful implementation
- Explain these approaches in care delivery, training and interprofessional communication

9:25 AM-10:05 AM The Roles of Teamwork, Technology and Culture in Improving Diagnosis: Patient and Family Centered Care (PFCC)

Jeffrey L. Myers, MD, A. James French Professor of Diagnostic Pathology, Vice Chair for Clinical Affairs & Quality, Director, MLabs Michigan Medicine

At the end of this presentation, participants should be able to:

- Cite the principles of patient and family centered care (PFCC)
- Identify opportunities to apply principles of PFCC in pathology practice
- Create and manage a patient and family advisory council (PFAC)

10:05 AM-10:35 AM **Coffee Break**

**Regency Pre
Function**

10:35 AM-11:15 AM Laboratory Utilization: Laboratory Stewardship: Early Lessons from an Academic Pathology Department with a Dedicated Resource for Quality and Health Improvement
Scott R. Owens, MD, Associate Professor, Gastrointestinal and Hepatobiliary Pathology, Medical Director of Professional Practice Evaluation, Director, Division of Quality and Health Improvement Department of Pathology Michigan Medicine

At the end of this presentation, participants should be able to:

- Summarize the structure and function of the Division of Quality and Health Improvement in the Department of Pathology at Michigan Medicine and identify opportunities and potential resources for similar work at their institution(s)
- Use a collaborative approach to inquiry and interventions around test utilization that is focused on both optimal patient outcomes and useful provider feedback
- Formulate a list of potential laboratory tests that may constitute opportunities for improved resource utilization in their practice(s)

11:15AM-11:45 AM Defining and Creating Value in Pediatric Pathology

Raja Rabah, MD, Director and Professor, Department of Pathology, Michigan Medicine, CS Mott and VonVoiglander Women's Hospitals

At the end of this presentation, participants should be able to:

- Recognize the importance of multidisciplinary approach to improve processes in the daily pathology practice
- Describe the importance of the pathologists participation in post death family conference
- Demonstrate the importance of the daily huddles to improve communications among team members and identifying near misses in the daily pathology practice

11:45 AM-12:00 PM Panel Discussion

Sunday October 28, 2018

8:00 AM-12:00 PM **Perinatal Symposium: Updates on Congenital Malformations** **Regency Ballroom**
Organizer: **Amer Heider, MD**, Assistant Professor, Department of Pathology, Michigan
Medicine University of Michigan

At the end of this session, participants should be able to:

- Recognize the appropriate use of genetic testing in congenital malformation cases, including the financial and technical aspects and limitations for the tests, such as sequencing
- Recognize perinatal imaging characteristics in malformation cases and discuss the complementary nature of fetal MRI and obstetric ultrasound
- Identify the utility of fragmented fetal examination in congenital malformations, including the technical challenges and importance of recognizing relevant clinical information

8:15 AM-9:00 AM Genetic Testing Update: single gene, panels, banking (who orders what, when, and how?)
Marcie Treadwell, MD, Professor and Director, University of Michigan Health System and
Jessica Smith, MD, University of Michigan Health System

At the end of this presentation, participants should be able to:

- Describe current molecular testing options available for congenital malformations
- Optimize future care of congenital malformation cases
- Increase knowledge about options for DNA banking

9:00 AM-9:45 AM Update on Whole Exome Sequencing in Fetal Demise and Malformations
Marcie Treadwell, MD, Professor and Director, University of Michigan Health System and
Jessica Smith, MD, University of Michigan Health System

At the end of this presentation, participants should be able to:

- Identify findings in the fetal examination that would prompt recommendation for further genetic testing
- Communicate pertinent findings to obstetric provider in manner that allows appropriate counseling of patient for future pregnancies
- Determine appropriate genetic testing options for patient
- Critique the potential shortcomings of ordering Whole Exome Sequencing

9:45 AM-10:15 AM **Coffee Break**

**Regency Pre
Function**

10:15 AM-11:00 AM Prenatal Imaging: Recent Updates
Lori J. Day, MD, Assistant Professor, University of Michigan, Ann Arbor, MI and **Maria
Ladino-Torres, MD**, Clinical Assistant Professor, University of Michigan Health System,
Ann Arbor, MI

At the end of this presentation, participants should be able to:

- Differentiate the technical limitations and advantages of ultrasound and MRI for prenatal imaging
- Identify the fetal lesions where complementary imaging modalities are utilized for thorough fetal assessment

- Describe the benefits of a multidisciplinary approach toward fetal imaging, particularly for optimal delivery planning and postnatal treatment
- Analyze the complementary benefits of fetal MRI and ultrasound for characterization of central nervous system lesions, congenital tumors, congenital diaphragmatic hernia as well as for fetal airway assessment

11:00 AM-11:45 AM Pathologic Examination of the Fragmented Fetus

Linda M. Ernst, MD, MHS, Perinatal Pathologist, Northshore University Healthsystem
Evanston Hospital, Evanston. IL

At the end of this presentation, participants should be able to:

- Apply techniques to examine dilation and evacuation (D&E) specimens with the goal of obtaining important diagnostic information
- Identify the strengths and limitations of the pathologic examination of D&E specimens
- Interpret the value of the pathologic examination of D&E specimens

11:45 AM-12:00 PM Perinatal Symposium Panel Discussion and Conclusion