PI Summit Program
May 22-25, 2023

David L. Lawrence Convention Center and Westin Convention Center Hotel
PITTSBURGH, PA
We gratefully acknowledge support from all of our exhibitors.

**PI SUMMIT 2023 EXHIBITORS**

**DIAMOND**
- Clinisys
- Hamamatsu
- Roche

**SILVER**
- Aiforia Technologies
- Bristol Myers Squibb
- epridia
- General Data Healthcare
- Gestalt Diagnostics
- Ibex
- Infiniti North America
- Paige
- Sectra
- StatLab
- Techcyte
- Voicebrook

**BRONZE**
- Aira Matrix
- Apollo
- Huron Digital Pathology
- Mkrosan
- mTuitive
- Pramana

**NON-PROFIT**
- College of American Pathologists (CAP)
- Association for Pathology Informatics (API)

**EVENT SPONSORS**
- President’s Reception
  - Aiforia
  - Dell Technologies
  - Pramana

- Women’s Networking Event
  - Dr. M.E. (Doc) de Baca (2018 API President) and Karen Mudd, Pride Foundation, and the Association for Pathology Informatics

**MATERIAL SPONSORS**
- Registration Kiosks and Lanyards
  - Clinisys

- Cap Today Advertising Support
  - Bob McGonnagle

- Travel Awards – Long-Standing Donors
  - Edward Klatt, MD
  - General Data Corporation

**Upcoming API Events:**
- **DPAI 7.0** at Mayo Clinic, MN & **PI Summit 2024** at Eagle Crest Resort, MI

**REGISTRATION HOURS** (Located in the Ballroom Gallery)
- Monday: 8:00 am - 5:00 pm
- Tuesday-Wednesday: 7:00 am - 5:00 pm
- Thursday: 8:00 am - 12:00 pm

**WIFI NETWORK INFO**
- Username: API2023
- Password: PISUMMIT23

**EXHIBITOR BALLROOM HOURS** (Ballroom B/C):
- **Tuesday, May 23** (10:00 am - 7:00 pm)
  - 10:00 am - 12:00 pm: OPEN (Break 10:20-11:20)
  - 12:00 pm - 1:00 pm: OPEN (LUNCH)
  - 2:15 pm - 2:40 pm: OPEN (Beverage Break, Browse Exhibits & Posters)
  - 5:30 pm - 7:00 pm: TASTING & GAME EVENT

- **Wednesday, May 24** (8:00 am - 3:30 pm)
  - 8:00 am - 12:00 pm: OPEN (Break 10:20-11:20)
  - 12:00 pm - 1:00 pm: OPEN (LUNCH)
  - 3:05 pm - 3:30 pm: OPEN (Beverage Break & Browse Exhibits & Posters)
  - 5:30 pm - 7:00 pm: PRESIDENT’S RECEPTION (Atrium)
Welcome to PI Summit!

The Pathology Informatics Summit 2023 is now in its 33rd year of offering, representing a conference legacy resulting from the merger of two long-standing and successful previous conference series: APIII and Lab InfoTech Summit/AIMCL. Okay, there was a physical gap due to a pandemic, but who’s counting? Actually, we are! This year also marks the 40th year of there being a Pathology Informatics meeting, where experts and practitioners come together to share excellence in Pathology Informatics instruction and scholarly exchange for the specialty.

Over these four decades, we have witnessed a progressive succession of instruction topics, from fundamentals of computing and information technology to increasingly sophisticated content. The use of information technology has greatly enhanced patient safety, laboratory efficiency, as well as the diagnostic and predictive utility of laboratory data. With the continued adoption of Digital Pathology in combination with the explosive growth of machine learning, this year’s meeting promises to be both stimulating and exciting. We cordially welcome you back to the Pathology Informatics Summit 2023, brought to you by the Association for Pathology Informatics.

This year’s conference builds on the strong legacy of past Summits with some new features worth calling out. Continuing the tradition of hosting pre-conference activities, this year’s meeting offers exciting sequences on 1) Ethics, Equity, and Regulation in Data Use, and 2) The ever-popular HIMA Imaging Science Workshop.

The Pathology Informatics Conference topics will include exciting and innovative informatics sessions in the following fields: Laboratory Medicine, Anatomic Pathology, Digital Imaging and Machine Vision, Molecular/Genomics, Operations, Education, AI/Machine Learning, a historical overview of the impact of pathology informatics, AI/data-sharing ethics, and the current state of the Pathology Informatics subspecialty certification!

Finally, the meeting continues the tradition of offering parallel tracks of short lectures on timely topics in the areas of AI and Machine Learning, Operations Lab Management, Standards, Interoperability, and Reporting, as well as offering both poster sessions and short scientific oral presentations, with the best of the latter category elevated to a third track, now named as the Beech-Friedman Distinguished Oral Presentations. The meeting concludes on Thursday, with the annual API Focus Session: A Discussion on Ethical Deployment of Machine Learning/AI Tools Making Use of Patient Data. Refreshment and lunch breaks will provide you with ample time to browse the exhibitor ballroom, with displays provided by more than 20 exhibitors with IT-related products and services, allowing you to gain a host of new ideas and solutions. We are also excited to host our first-ever Beer/Wine/Cocktail and Food Tasting Event as well as hosting several high-end prize raffles for participation in a Vendor Trivia Game and for specific session attendance. Join us as we celebrate 40 dynamic years of offering Pathology Informatics content and make the vibrant pathology informatics community part of your professional life!

The Conference Planning committee and the API Governing Council is excited to welcome you back! The Conference Planning committee and the API Governing Council is excited to welcome you back!

Meet API’s Travel Awarded

 meet API’s Travel Awarded

Meet API’s Generous Donors

Meet API’s Generous Donors

Meet API’s Generous Donors

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Meet API’s Generous Donors

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Meet API’s Generous Donors

Meet API’s Generous Donors

Meet API’s Generous Donors
### MONDAY PRE-CONFERENCE BOOTCAMP WORKSHOP

**May 22, 2023 - Room 301/302**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 - 9:10</td>
<td>Welcome</td>
<td>Ronald Jackups, MD, PhD</td>
</tr>
<tr>
<td>9:10 - 9:55</td>
<td>Introduction to Ethics and Privacy</td>
<td>Michelle Stoffel, MD, PhD</td>
</tr>
<tr>
<td>9:55 - 10:40</td>
<td>Ethics in Research Data Use</td>
<td>Amrom Obstfeld, MD, PhD</td>
</tr>
<tr>
<td>10:40 - 10:55</td>
<td><em>Refreshment Break</em></td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>10:55 - 11:40</td>
<td>Ethics in the Use of Artificial Intelligence</td>
<td>Brian Jackson, MD, MS</td>
</tr>
<tr>
<td>11:40 - 12:25</td>
<td>Equity in the Practice of Pathology Informatics</td>
<td>Vahid Azimi, MD</td>
</tr>
<tr>
<td>12:25 - 1:15</td>
<td>LUNCH</td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>1:15 - 2:00</td>
<td>Data Use in the Clinical Laboratory</td>
<td>Samuel McCash, MD</td>
</tr>
<tr>
<td>2:00 - 2:45</td>
<td>Regulation of Clinical Decision Support Systems</td>
<td>Ronald Jackups, MD, PhD</td>
</tr>
<tr>
<td>2:45 - 3:05</td>
<td><em>Refreshment Break</em></td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>3:05 - 3:50</td>
<td>Information Blocking</td>
<td>Simone Arvisais-Anhalt, MD</td>
</tr>
<tr>
<td>3:50 - 4:35</td>
<td>Data Use in Digital Pathology</td>
<td>Lisa-Jean Clifford</td>
</tr>
<tr>
<td>4:35 - 4:45</td>
<td>Conclusion</td>
<td>Michelle Stoffel, MD, PhD</td>
</tr>
</tbody>
</table>

### MONDAY PRE-CONFERENCE HIMA WORKSHOP

**May 22, 2023 - Room 303/304**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 - 9:05</td>
<td>Welcome</td>
<td>Metin Gurcan, PhD</td>
</tr>
<tr>
<td>9:05 - 9:55</td>
<td>Histopathology Image Analysis Challenges &amp; Invariant Representations for Histopathology Images</td>
<td>Mitko Veta, PhD</td>
</tr>
<tr>
<td>9:55 - 10:45</td>
<td>Deep Learning for Interpreting Whole Slide Images in Digital Pathology</td>
<td>Cigdem Gunduz Demir, PhD</td>
</tr>
<tr>
<td>10:45 - 11:00</td>
<td><em>Refreshment Break</em></td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>11:00 - 11:50</td>
<td>Explainable AI (xAI) from a Pathologist's Perspective: Let Me Explain It To You</td>
<td>Jeffrey Fine, MD</td>
</tr>
<tr>
<td>12:40 - 1:15</td>
<td>LUNCH</td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>1:15 - 2:05</td>
<td>Harnessing Spatial Approaches to Understand Tumor Immune Microenvironment Linked to Anti-Pd1 Treatment Response in Gastric Cancer</td>
<td>Tae-hyun Hwang, PhD</td>
</tr>
<tr>
<td>2:05 - 2:55</td>
<td>Co-Evolving Artificial Intelligence &amp; Pathology to Decipher the Tumor Immune Ecosystem</td>
<td>Yin-Yin Yuan, PhD</td>
</tr>
<tr>
<td>2:55 - 3:15</td>
<td><em>Refreshment Break</em></td>
<td>Outside Room 301/302</td>
</tr>
<tr>
<td>3:15 - 4:05</td>
<td>Computational Optics of the Tumor Microenvironment</td>
<td>Kevin Eliceiri, PhD</td>
</tr>
<tr>
<td>4:05 - 5:00</td>
<td>Panel Discussion</td>
<td>Dr. Metin Gurcan, HIMA Planning Chair</td>
</tr>
</tbody>
</table>
## TUESDAY POSTERS
### May 23, 2023

<table>
<thead>
<tr>
<th>Poster Location</th>
<th>Poster Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>B/C</td>
<td><strong>An International Comparative Study of 110 Pathologists: AI Improves Accuracy for Ki-67 Assessment in Breast Cancer</strong></td>
<td>Amanda Dy/Jennifer</td>
</tr>
<tr>
<td></td>
<td><strong>GenomeX – Advancing Genomic Data Standards and Interoperability with FHIR</strong></td>
<td>Skikar Chamala</td>
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<tr>
<td></td>
<td><strong>Developing an Online Practice-Based Open-Access Resource of Pathology Education</strong></td>
<td>Mikael Haeggstroem</td>
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<td><strong>Semi-Automated Curation Workflow for a Pediatric Molecular Pathology Interpretation Library</strong></td>
<td>Kyungmin Ko</td>
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<td></td>
<td><strong>A Machine-Learning Web-Interface for Predicting Primary Sites in Cancers of Unknown Primary from RNAseq Data</strong></td>
<td>Ankit Singh</td>
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<td></td>
<td><strong>Deep-Learning-Based CAD May Be Helpful for Improvement the Consensus and Accuracy of the Diagnosis in Well-differentiated Hepatic Nodule</strong></td>
<td>Binna Yu</td>
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<td><strong>Comparative Analysis of Pathology Workflow Efficacy and Diagnostic Accuracy After Digital Pathology Implementation</strong></td>
<td>Kyoungbun Lee</td>
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<td><strong>Making the Invisible Visible: BlocDoc’s Impact on Prostate Needle Biopsy Histology</strong></td>
<td>Robert Toelke</td>
</tr>
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<td></td>
<td><strong>Improving Autopsy Turnaround Time Using Lean Six Sigma Principles with Define-Measure-Analyze-Improve-Control Cycles</strong></td>
<td>Devereaux Sellars</td>
</tr>
<tr>
<td></td>
<td><strong>Deep Learning Model for Classifying Low and High-Grade Colorectal Tubular Adenomas</strong></td>
<td>Eric Steimetz</td>
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<td></td>
<td><strong>The Role of the Laboratory in Missed Test Results</strong></td>
<td>Regina Kwon</td>
</tr>
<tr>
<td></td>
<td><strong>Conversion of a Vendor-Specific to a Vendor-Neutral Quantitative Biomarker Digital Image Analysis System</strong></td>
<td>Matthew Leong</td>
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<tr>
<td></td>
<td><strong>Augmenting Breast Pathologists Workflow Using Automated H-scores</strong></td>
<td>Rand Abou Shaar</td>
</tr>
<tr>
<td></td>
<td><strong>BCR Fusion Mutations in Non-CML Cases</strong></td>
<td>Eric Wei</td>
</tr>
</tbody>
</table>

## TUESDAY MORNING ABSTRACT PRESENTATIONS
### May 23, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:15</td>
<td>Nilay Bakoglu</td>
<td>Artificial Intelligence (AI)-Based Automated Determination of Histomorphological Features and Mitosis Detection</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Jian Hu</td>
<td>Integration of Label-Free, Interpretable Image Features with Spatial Molecular Profiles from Spatial Transcriptomics</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Emma Gardecki</td>
<td>Diversity Indexing of Intratumoral Heterogeneity of HER2-FISH Companion Diagnostics in Invasive Breast Cancer</td>
</tr>
<tr>
<td>8:45-9:00</td>
<td>Amanda Dy</td>
<td>Towards Large-Scale Adoption: Unsupervised Domain Adaptation for Ki-67 Scoring</td>
</tr>
</tbody>
</table>

**Moderator:** Brian Jackson, Room 301/302

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:15</td>
<td>Azhal Acharya</td>
<td>Digital Whole Slide Imaging at UHCMC: From Preview to Sign Out; A CAP Guideline Based Pilot Project</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Omar Baba</td>
<td>Qualitopix: Artificial Intelligence-Based Quantitative Quality Assurance of Immunohistochemistry Straining</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Scott Robertson</td>
<td>Generating Labeled Whole Slide Images from the Slide Archive: A Scalable Process Using a Custom Web-Based Platform</td>
</tr>
<tr>
<td>8:45-9:00</td>
<td>Yukako Yagi</td>
<td>The Utilities of Whole Block Imaging in Pathology</td>
</tr>
</tbody>
</table>

**Moderator:** Lisa-Jean Clifford, Room 303/304

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00-8:15</td>
<td>Edward Klatt</td>
<td>The Patient Experience with Laboratory Test Result Reporting</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Nicholas Spies</td>
<td>Automating the Detection of Preanalytical Errors Without Expert-Curated Training Labels</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Stephen Hung</td>
<td>PathBrowser: A Tool for Extracting Textbook Images, Captions, and Caption Terms for Flashcard-based Self-learning</td>
</tr>
<tr>
<td>8:45-9:00</td>
<td>Jerome Cheng</td>
<td>Artificial Intelligence for Human Gunshot Wound Classification</td>
</tr>
</tbody>
</table>
## TUESDAY MORNING SESSIONS

**May 23, 2023**

### Morning Track Lectures - Running Concurrently (9:00 am - 12:00 pm)

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>9:00 - 9:35</td>
<td>AI-Driven Spatial Biology as the Next NGS - The Implications on Pathology Informatics Ken Bloom, MD</td>
<td>Attaining Six Sigma Reliability in the Clinical Lab Charles D. Hawker, PhD</td>
<td>Creating a Reference Interval Database to Support Clinical AI/ML Applications with Generalizable Laboratory Phenotypes Wade Schulz, MD, PhD</td>
</tr>
<tr>
<td>9:35 - 9:45</td>
<td>Ten Minute Break to Switch Lectures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:45 - 10:20</td>
<td>Value of Deploying Digital Pathology &amp; AI in Your Institution Lisa-Jean Clifford</td>
<td>Beyond the Turn-Around Time: Leveraging Business Analytics to Reduce Errors &amp; Improve Efficiency J. Mark Tuthill, MD</td>
<td>The Serum Free Light Chain Assay is Less Sensitive for Assessing Monoclonal Gammapathies Among African American Patients Valizad Azimi, MD</td>
</tr>
<tr>
<td>10:20 - 11:20</td>
<td>Break, Browse Exhibits and Posters in Ballroom B/C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:20 - 12:00</td>
<td>Tips For Using Quantitative Image Analysis in Breast Pathology Practice Mustafa Yousef, MD &amp; Liron Pantanowitz, MD, MHA, PhD</td>
<td>Laboratory Workflow Optimization: Can We Make Technology Do More Work? Simone Avissais-Anhalt, MD</td>
<td>Impact of Clinical Decision Support Tools in the Clinical Laboratory Grace Mahowald, MD, PhD</td>
</tr>
<tr>
<td>12:00 - 1:00</td>
<td>Lunch for General Attendees in Ballroom B/C</td>
<td>Mentoring Roundtable Luncheon for Invited Mentors and Trainees in Room 306/307</td>
<td></td>
</tr>
</tbody>
</table>

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## TUESDAY AFTERNOON PLENARY SESSIONS

**May 23, 2023**

### Ballroom A (1:00 pm - 5:30 pm)

<table>
<thead>
<tr>
<th>TIME</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 - 1:05</td>
<td>Opening Welcome to PI Summit 2023 - Ulysses G. J. Balis and J. Mark Tuthill</td>
</tr>
<tr>
<td>1:05 - 1:40</td>
<td>TRUU-Lab: An International Initiative for Standardizing Lab Test Names - Ila Singh, MD, PhD</td>
</tr>
<tr>
<td>1:40 - 2:15</td>
<td>2D Specimen Label Bar Codes for Anatomic and Clinical Pathology Come of Age: The 10+ Year Journey of CLSI’s AUTO14 Label Standard - Alexis Carter, MD</td>
</tr>
<tr>
<td>2:15 - 2:40</td>
<td>Break/Browse Exhibits and Poster Sessions</td>
</tr>
<tr>
<td>2:40 - 3:15</td>
<td>UK National Health Service Initiative to Deploy Digital Pathology - Darren Treanor, MD, PhD</td>
</tr>
<tr>
<td>3:15 - 3:55</td>
<td>The American Board of Pathology Update on Clinical Informatics - Gary Procop, MD</td>
</tr>
<tr>
<td>3:55 - 4:00</td>
<td>5-minute break</td>
</tr>
<tr>
<td>4:00 - 4:30</td>
<td>Hamamatsu Diamond Presentation: Hamamatsu Earns FDA Clearance for Primary Diagnoses: Unleashing the Power of Diagnostics - Key Insights from the Study - Dr. Anil Parwani All attendees for ALL Diamond Presentations will be entered into a raffle for a MacBook Air</td>
</tr>
<tr>
<td>4:30 - 5:00</td>
<td>CliniSys Diamond Presentation: What’s Next for Industry Standards?: An LIS Vendors View on Areas to Progress Patient Care, Interoperability, Analytics and Machine Learning in Anatomic Pathology - Chris Meyers All attendees for ALL Diamond Presentations will be entered into a raffle for a MacBook Air</td>
</tr>
<tr>
<td>5:00 - 5:30</td>
<td>Roche Diamond Presentation: Digital Innovations for Better Patient Care: Improving Care Quality, Driving Efficiencies and Reducing Costs Across the Continuum - TBD All attendees for ALL Diamond Presentations will be entered into a raffle for a MacBook Air</td>
</tr>
</tbody>
</table>

### Exhibitor Ballroom B/C (5:30 pm - 7:30 pm)

<table>
<thead>
<tr>
<th>TIME</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:30 - 7:30</td>
<td>“Beer/Wine/Cocktail &amp; Food Tasting” Event &amp; Vendor Trivia Event in Exhibitor Ballroom B/C - Top scorers of “Vendor Trivia” are entered into a raffle to win 1 of 3 Nintendo Switches!</td>
</tr>
</tbody>
</table>

### Room 306/307 (7:00 pm - 8:00 pm)

<table>
<thead>
<tr>
<th>TIME</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 - 8:00</td>
<td>Fellows’ Meet and Greet in Room 306/307</td>
</tr>
<tr>
<td>Time</td>
<td>Presenter</td>
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</tr>
<tr>
<td>8:00-8:15</td>
<td>Suguna Narayan</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Kyungmin Ko</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Eric Daley</td>
</tr>
<tr>
<td>8:45-9:00</td>
<td>Yonah Ziemba</td>
</tr>
<tr>
<td>8:00-8:15</td>
<td>Jenna Reece</td>
</tr>
<tr>
<td>8:15-8:30</td>
<td>Lauren Miller</td>
</tr>
<tr>
<td>8:30-8:45</td>
<td>Eric Wei</td>
</tr>
<tr>
<td>8:45-9:00</td>
<td>Patricia Hernandez</td>
</tr>
</tbody>
</table>
### Morning Track Lectures - Running Concurrently, 9:00 am - 12:00 pm

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>9:00-9:35</td>
<td>Performance Monitoring of AllML Models Grounded in a Robust Statistical Framework and Conventional Laboratory Practices Jansen Seheult, MD</td>
<td>Feasibility of Direct Integration of Genomic Test Results into CAP Cancer Symptomatic Reporting Protocol Karen Hallowell, PhD</td>
<td>For Now &amp; Later: Implementing a Large-Scale Clinical Workflow While Building Business Case for Future Research Endeavors Suril Singhal, MD</td>
</tr>
<tr>
<td>9:35-9:45</td>
<td>Ten Minute Break to Switch Lectures</td>
<td></td>
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</tr>
<tr>
<td>9:45-10:20</td>
<td>Engineering Fair ML Algorithms for Laboratory Medicine Mark Zaydman, MD</td>
<td>Connecting the Dots: Creating Efficient and Effective Laboratory Networks Aaron Green, PhD</td>
<td>An Informatics-Based Biobanking Solution for Easy Navigation, Annotation, Analysis and Sharing of Biospecimens Anj Palwai, MD, PhD, MBA</td>
</tr>
<tr>
<td>10:20-11:20</td>
<td>Break, Browse Exhibits and Posters in Ballroom B/C</td>
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</tr>
<tr>
<td>11:20-12:00</td>
<td>A Pathologist’s Roadmap For Successful Computational Pathology Collaborations Drew Williamson, MD</td>
<td>A Vision for the Future for Deploying the Auto-14 Standard Ulysses Bals, MD</td>
<td>Integrating Artificial Intelligence Platforms into Clinical Signout at a Large Academic Medical Center Luke Geneslaw</td>
</tr>
<tr>
<td>12:00-1:00</td>
<td>Lunch for Attendees in Ballroom B/C</td>
<td>Travel Awardee Luncheon in Room 306/307</td>
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</tbody>
</table>

### Afternoon Track Lectures - Running Concurrently, 1:00 pm - 3:05 pm

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<tbody>
<tr>
<td>1:00-1:35</td>
<td>Digital Pathology at MSKCC: Operation Optimization for Quality and Productivity Only Ardon, PhD, MBA</td>
<td>The Evolution of Anatomic Pathology Information Systems 1960’s To 2020’s Dennis Wisten and Raymond Alter, MD</td>
<td>Error Analysis in Automated Flow Cytometric Diagnosis Alinor, MD</td>
</tr>
<tr>
<td>1:35-1:45</td>
<td>Ten Minute Break to Switch Lectures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:45-2:20</td>
<td>Remote Frozen Sections: Mission Possible for Every Pathology Laboratory Adela Cicim, MD and Mike Isaacs</td>
<td>End of Life Planning for the LIS: Data Archiving Michelle Stoffel, MD, PhD</td>
<td>Development of a Natural Language Processing Workflow for Annotating Clinical Hemepath Reports for Myeloid Neoplasms Sophie Rand</td>
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<td>2:20-2:30</td>
<td>Ten Minute Break to Switch Lectures</td>
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<td>2:30-3:05</td>
<td>The Road Less Traveled - Adventures in Digital Pathology Sam Terese</td>
<td>Welding the Double-Edged Sword Safety: An Analysis of Application Development in the Clinical Laboratory Patrick Mathias, MD, PhD</td>
<td>Metastatic Risk Prediction of Clear Cell Renal Carcinoma (ccRCC) by Computer-Assisted Analysis of Histopathology Images Beatrice Knudsen, MD, PhD</td>
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<td>3:05-3:30</td>
<td>Ten Minute Break to Switch Lectures</td>
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<td>3:30-4:00</td>
<td>Break, Browse Exhibits and Posters in Ballroom B/C</td>
<td>Contemporary Topics in PI: Open Mic Session Featuring CAP Today’s Bob McGonnagle as Emcee - Ballroom A</td>
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<tr>
<td>4:00-5:30</td>
<td>API President’s Welcome - Ballroom A</td>
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<td>5:30-7:00</td>
<td>API President’s Reception in the East Atrium - Open to all attendees and exhibitors Barbecue Dinner - come mingle and make those final connections!</td>
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<tr>
<td>7:30-9:00</td>
<td>API Women’s Networking Nightcap at the Westin, Pennsylvania West Room</td>
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THURSDAY MORNING SESSION  May 25, 2023

Path Informatics Timely Topics Panel Discussion Series:
A Discussion on Ethical Deployment of Machine Learning / AI Tools Making Use of Patient Data
Moderators: Ulysses Balis and J. Mark Tuthill
Room 303/304, 8:00 am - 12:00 pm

8:00 - 9:00  API Council Breakfast Meeting (Closed) - Room 306/307

8:00 - 9:00  Breakfast outside 303/304

9:00 - 9:20  Ethical Development, Translation, and Deployment of Clinical AI Models: A General Framework for Pathology and Laboratory Medicine - David McClintock, MD

9:20 - 9:40  The Rapidly Changing Reality of AI and Machine Learning as Ethically Applied to Molecular Diagnostics Reporting - Alexis Carter, MD

9:40 - 10:00  Rational and Ethical Deployment of AI in a Reference Lab Setting - Brian Jackson, MD, MS

10:00 - 10:20  Ethical Development and Deployment of AI-Based Clinical Decision Support - Ronald Jackups, MD, PhD

10:20 - 10:30  STANDING BREAK

10:30 - 11:50  Panel Discussion - Alexis Carter, Brian Jackson, Ronald Jackups, and David McClintock

11:50 - 12:00  Closing Remarks and Adjournment: Ulysses Balis and J. Mark Tuthill

PI SUMMIT 2023 CME ACCREDITATION

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 University of Michigan Medical School and Association for Pathology Informatics (API). The University of Michigan Medical School is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The University of Michigan Medical School designates this live activity for a maximum of 20.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

OBJECTIVES

• Define the rapidly evolving field of Digital Pathology and showcase associated opportunities for an expedited adoption of new workflow models leveraging machine learning, artificial intelligence, and hardware solutions
• Understand and learn tenants of business analytics, machine learning and computational pathology
• Understand the various software and hardware products available in the clinical laboratory and pathology market by interacting with many exhibitors
• Understand the requirements to deploy informatics solutions in the clinical diagnostic laboratory
• Present new research in pathology informatics based on submitted competitive scientific abstracts
• Provide a forum for basic pathology informatics instruction for house officers and fellows in pathology training programs.
• Provide updated best practices in the rapidly evolving area of digital pathology primary diagnosis

EVALUATION AND CERTIFICATE

ATTENDANCE MUST BE REGISTERED WITHIN 6 MONTHS TO BE AWARDED CREDIT. Please complete the following steps to fill out the course evaluation and print your certificate:

• Login to your account at MICME at http://micme.medicine.umich.edu/
• Don’t have an account? Click on the ‘Login or Create a MICME Account’ link at the top of the page and follow the instructions.
  - Note: You must have a MICME account to claim credit for any University of Michigan Medical School (UMMS) CME activity
• On the Credit Center card on your Dashboard, click on Claim Credits and View Certificates. Locate the activity in the Activities Available for Credit Claiming section.
• Under Action, click on Claim.
• Under Action, click on Add Credit.
• Enter the number of credits you’re claiming and the “I attest” button. (Note: This number should reflect credits claimed for the entire course, not just a single day.)
• Complete the evaluation form to provide feedback on the activity.
• Click the Submit button.
• Scroll down to the Awarded Credits section to view or print your certificate and/or comprehensive University of Michigan CME transcript.

For more information about this activity, contact Beth Gibson or visit www.micme.medicine.umich.edu.

CME CREDITS AVAILABLE
20.5

DEADLINE TO APPLY
November 22, 2023

CONTACT:
BETH GIBSON
bethgibs@med.umich.edu
Facility Profiles

**PI SUMMIT 2023**

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**Orly Ardon, PhD, MBA**  
Director, Digital Pathology Operations  
Department of Pathology, Memorial Sloan Kettering Cancer Center  
ardon@mskcc.org

Dr. Ardon graduated from UCLA and Harvard Medical School (Summa Cum Laude, 1976). His MD thesis (FISH Caper) was the design precursor to CoPath. After UC SF residency, she practiced clinical pathology and informatics in Santa Barbara, Long Beach, University of Utah/VARUP, and MDI Lab Services. She co-authored with Dr. Frank Elavitch the ABRs of U.S., the definitive tutorial on clinical laboratory information systems. The informatics chapters of Harry’s Clinical Diagnosis (with Dr. Ul Babi) long served as standard texts. Her courses on clinical and AP information systems have been presented at dozens of national meetings (CAP, ASCP, AACC, CLIMA, HMIS, AMIA, AABBB, and others). In 1991, she helped launch the American Board of Pathology proposal to create Clinical Informatics as a subspecialty of the American Board of Pathology open to all ABIM-certified specialists. With the collaboration of other medical specialties, subspecialty certifications began in 2013. Dr. Ardon provided consulting services to health care systems and vendors, including a brief period as a senior consultant with Dennis Winston and Associates. From 2003 until 2010, he directed Bickerstain Preparedness and Response at LA County Public Health ACDD. Dr. Ardon received the 2005 Honorary Fellows Lifetime Achievement Award of the Association for Pathology Informatics, and in 2012 served as President of the API. Throughout his career, he served as voluntary faculty in USC pathology, retiring in 2016. Since 1987, Dr. Ardon has been editor of “CAP Today” Newsbytes and Information System Surveys, now with co-editor Dennis Winston.

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**Raymond D. Aller, MD**  
Contributing Editor, CAP Today  
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Dr. Aller graduated from UCLA and Harvard Medical School (Cum Laude, 1976). His MD thesis (MGH Caper) was the design precursor to CoPath. After UC SF residency, he practiced clinical pathology and informatics in Santa Barbara, Long Beach, University of Utah/VARUP, and MDI Lab Services. He co-authored with Dr. Frank Elavitch The ABRs of U.S., the definitive tutorial on clinical laboratory information systems. The informatics chapters of Harry’s Clinical Diagnosis (with Dr. Ul Babi) long served as standard texts. His courses on clinical and AP information systems have been presented at dozens of national meetings (CAP, ASCP, AACC, CLIMA, HMIS, AMIA, AABBB, and others). In 1991, he helped launch the American Board of Pathology proposal to create Clinical Informatics as a subspecialty of the American Board of Pathology open to all ABIM-certified specialists. With the collaboration of other medical specialties, subspecialty certifications began in 2013. Dr. Ardon provided consulting services to health care systems and vendors, including a brief period as a senior consultant with Dennis Winston and Associates. From 2003 until 2010, he directed Bickerstain Preparedness and Response at LA County Public Health ACDD. Dr. Aller received the 2005 Honorary Fellows Lifetime Achievement Award of the Association for Pathology Informatics, and in 2012 served as President of the API. Throughout his career, he served as voluntary faculty in USC pathology, retiring in 2016. Since 1987, Dr. Aller has been editor of “CAP Today” Newsbytes and Information System Surveys, now with co-editor Dennis Winston.

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**Ulysses J. Balis, MD**  
Director, Division of Pathology Informatics & Professor of Pathology – Director, Pathology Informatics Fellowship Program  
University of Michigan Health System  
ulysses@med.umich.edu

Dr. Balis (PI2023 Conference Director) currently serves as the A. James French Professor of Pathology Informatics at the University of Michigan health system. Additionally, he holds institutional positions, including Associate Chief Medical Information Officer and Director of the Division of Pathology Informatics. As an elected Fellow of the American Institute for Medical and Biological Engineering (AIMBE), he has maintained longstanding interest in the intersection of engineering, high-performance computation, and the practice of medicine. The U-M Pathology Informatics Division is noteworthy for being one of the few such academic information technology groups operating in support of pathology while also being wholly housed within its host pathology department and not in a central IT division. Dr. Balis has active NIH-supported research initiatives in several areas of pathology and medical informatics, including the NIH NIDDK Kidney Precision Medicine Project (KPMP) and an NIDDK RO2-based grant entitled the Development of 21st Century Concepts in Urology, with these projects allowing for the application of many informatics concepts towards contemporary challenges in Pathology, including machine learning, image-based analytics, and machine vision tools for histopathology. He also serves as director of the U-M Pathology Informatics Fellowship – one of only ten such two-year programs in the U.S. Similarly, he has maintained a longstanding interest in pathology informatics education, with him currently serving as the co-chair of the Longitudinal Assessment Program (LAP) of the Clinical Informatics Subspecialty Boards Exam Committee. Dr. Balis is the author of over 150 publications, many image-based algorithms, multiple patents, numerous books and book chapters, and is co-editor of one of the contemporary reference textbooks on the topic of Pathology Informatics (along with Drs. Mark Tubbioli and Leon Pantanowitz). He has delivered over 300 invited presentations, nationally and internationally, on various topics related to pathology informatics, data analytics, and image analysis.
Dr. Fine is the President of the Artificial Intelligence in Pathology Group (AIPath), which is a non-profit organization dedicated to advancing the field of computational pathology. He is also the Founder of PathAI, a company that develops artificial intelligence-driven solutions for the interpretation of medical images. Dr. Fine has a strong background in both mathematics and medicine, with a Ph.D. in Biomedical Engineering from the University of Pittsburgh and a Masters in Biomedical Informatics from the University of California, San Francisco. He has published extensively in the field of computational pathology and has received numerous awards for his work, including the Presidential Early Career Award for Scientists and Engineers (PECASE).
Charles D. Hawker, PhD, MBA
Scientific Director for Automation and Special Projects (Retired), ARUP Laboratories
charles.hawker@arup.com

Dr. Charles Hawker retired as Scientific Director for Automation and Special Projects at ARUP. He also served as Professor (Adjunct) of Pathology at the University of Utah, School of Medicine. Prior to joining ARUP over a twenty year period, he held various positions in research and development and management at Laboratory Procedures, Inc. (Upjohn) and SmithKline Beecham Clinical Labs. He has received numerous awards including AACD's highest award, the Outstanding Lifetime Achievement Award in Clinical Chemistry and Laboratory Medicine, and other awards from the National Academy of Clinical Biochemistry (NACB), the Clinical and Laboratory Standards Institute (CLSI), the Association of Clinical Scientists (ACS), and the Association for Laboratory Automation. Dr. Hawker focused during his tenure with Abbott Laboratories. He served as Director of the Division and a Senior Technical Specialist in the Diagnostic Division in inflammation and cancer research in the Pharmaceutical Products Division. He obtained his B.S. in Chemistry from the University of Pittsburgh School of Medicine and was a member of a number of FDA review panels.

Mike Isaacs
Director, Clinical Informatics and Business Development, Departments of Pathology and Immunology Washington University
mike.isaacs@wustl.edu

Mike Isaacs is the Director of Clinical informatics and Business Development at Washington University in the Department of Pathology and Immunology. He has a computer science background and over 25 years of experience in supporting Information Technology in the laboratory, which has provided him with the experience to identify the information needs of the department. Mike has been involved with Digital pathology for over ten years and has developed multiple digital workflows to take advantage of technology in the laboratory. For the last two years, he has focused on building and integrating Digital Pathology Solutions for internal use and for our Outreach Client business at MU/BJC hospital. His primary interest is providing a strategic vision for the implementation of Digital Pathology for the BJC HealthCare system, which consists of 15 hospitals in two states. He is currently on the CPA board of Directors and sits on the foundation and education committees of the DPA.

Karen Hukulow, PhD
Senior Clinical Release Manager, College of Silicon Valley Pathologists
Ahouth@siliconpath.org

Karen Isaac Hukulow received her BS in Biology from Cook College, Rutgers University, her MS in Microbiology and PhD in Biochemistry from the University of Pittsburgh School of Medicine and was a visiting student at the Weizmann Institute of Sciences. Dr. Hukulow did postdoctoral research at the University of Pittsburgh School of Medicine and Hoffmann La Roche. He was a Senior Immunologist in infection and immunity research in the Pharmaceutical Products Division and a Senior Technical Specialist in the Diagnostic Division during his tenure with Abbott Laboratories. He served as Director of Business Development at Integrated DNA Technologies and worked as a senior manager at several start up biotechnology companies prior to joining the College of American Pathologists in 2011. Dr. Hukulow is Senior Clinical Release Manager for the Cancer Protocols and Data Standards Team at the College where he leads the group responsible for maintaining and overseeing the Cancer Protocols and electronic Cancer Protocols. Dr. Hukulow also serves as a staff liaison to the CAP Cancer and Pathology Electronic Reporting Committees.

Brian Jackson, MD, MS
Medical Director, Business Development ARUP Laboratories
brian.jackson@aruplab.com

Brian Jackson, MD, MS, is a speaker, author, and an adjunct professor of pathology and biomedical informatics at the University of Utah. He is also a medical director for business development at ARUP Laboratories. Dr. Jackson received his BA (mathematics), MS (medical informatics), and MD degrees from the University of Utah. He completed residency in clinical pathology at Dartmouth-Hitchcock Medical Center, followed by an M.N fellowship in medical informatics at the University of Utah. His research focuses on ethics within the healthcare industry.

Patrick Mathias, MD, PhD
Associate Medical Director, Laboratory Informatics, University of Washington School of Medicine
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Patrick Mathias, MD, PhD, is an Assistant Professor who serves as the Vice Chair of Clinical Operations and the Associate Medical Director of the Informatics division in the department of Laboratory Medicine and Pathology at the University of Washington School of Medicine. He is also a consultant for Path of Care Testing for the CAMP transport service covering Washington and Alaska. He is board certified in Clinical Pathology and Clinical Informatics. Prior to postgraduate medical education training, he earned his undergraduate degree in electrical engineering from Duke University and completed his M.D. and Ph.D. in bioinformatics from the University of Idaho with a research focus on nanophotonics and biosensors. Dr. Mathias’s informatics responsibilities cover improving electronic health record systems to improve the ordering and interpretation of laboratory tests and developing infrastructure to support advanced analytical technologies in the clinical laboratory. In addition he supervises departmental analytics efforts to improve laboratory operations and assess the impact on clinical care. His research interests include assessing the cost-effectiveness of testing and informatics interventions at a population level. He is also a strong believer in establishing data science as a core skill in medicine and teaches programming and data analysis skills to the laboratory medicine and pathology community.

Elizabeth A. Krupinski, PhD
Professor & Vice Chair for Research Department of Radiology & Imaging Sciences Emory University
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Dr. Elizabeth Krupinski is a Professor and Vice Chair for Research at Emory University in the Departments of Radiology & Imaging Sciences, Psychology and Medical Informatics. She received her BA from Cornell, MA from Montclair State and PhD from Temple, all in Experimental Psychology. Her interests are in medical image perception, observer performance, medical decision making and, human factors in image-based clinical applications including radiology and pathology. She is Associate Editor of Evaluation for the Acadia Teleradiology Program and Director of the Southwest Telehealth Resource Center. She has published extensively in these areas and has presented at conferences nationally and internationally. She is Past Chair of the SPIE Medical Imaging Conferences, Past President of the American Telemedicine Association, President of the Medical Image Perception Society, Past Chair of the Society for Imaging Informatics in Medicine and President of the Society for Education and the Advancement of Research in Connected Health. She serves on a number of editorial boards for both radiology and teleradiology journals and is the Editor of the Journal of Digital Imaging and Teleradiology Reports. She serves regularly as a grant reviewer for the NIH, DOD, TATRC and other federal, state and international funding agencies and has served as a member of a number of FDA review panels.

Ronald Jackups, MD, PhD
Associate Professor, Washington University School of Medicine, St. Louis
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Ronald Jackups, MD, PhD is the program director for the Clinical Informatics fellowship at Washington University School of Medicine and the chief medical information officer for laboratories at BJC Healthcare in St. Louis, MO. His clinical and research interests include the use of computer decision support to improve the utilization of laboratory testing and blood translation in healthcare systems.

Tae Hyun Hwang, PhD
Florida Department of Health Cancer Chair Professor, Departments of Artificial Intelligence and Informatics, Immunology Science and Biotechnology Mayo Clinic
thwang@mayo.edu

Tae Hyun Hwang PhD holds an endowed Florida Department of Health Cancer Chair position in the department of Artificial Intelligence and Informatics, Cancer Biology and Immunology at Mayo Clinic. His research is focused on developing novel machine learning and AI algorithms utilizing spatial transcriptomics/proteomics, single cell, digital pathology and other omics data to deliver precision oncology care.

Samuel Cash, MD
Clinical Pathologist, Department of Laboratory Medicine Memorial Sloan Kettering Cancer Center
mccashs@mck.org

Dr. Samuel (Sam) McCash is the Medical Director of Laboratory Information Systems in the Department of Pathology and Laboratory Medicine at Memorial Sloan Kettering (MSK) Cancer Center. He is board certified in anatomic and clinical pathology by the American Board of Pathology with specialty boards in Clinical Informatics. His work focuses on using laboratory data and information systems to enhance clinical decisions and workflow for the optimization of patient care and safety. Past projects include automating critical call-back systems, specimen tracking for clinicians, and real-time lab process monitoring with automated alerts.

David McCintock, MD
Chair, Division of Computational Pathology and Artificial Intelligence and a Senior Associate Professor of Pathology, Medicine and Laboratory Medicine, Mayo Clinic
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Dr. David McCintock is the Chair of the Division of Computational Pathology and Artificial Intelligence within the Department of Laboratory Medicine and Pathology at Mayo Clinic. His current professional interests include the use of machine learning and artificial intelligence tools to improve patient care, clinical laboratory workflows, operational efficiency, and scientific discovery. He is currently the Program Committee Chair within the Association for Pathology Informatics.
Amrom Obstfeld MD, PhD
Assistant Professor of Clinical Pathology and Laboratory Medicine, University of Pennsylvania Perelman School of Medicine
Amro Obstfeld MD, PhD, is the Associate Chair of Pathology Informatics as well as the Hematology Laboratory at Children’s Hospital of Philadelphia. After receiving his MD and PhD degrees from the College of Physicians and Surgeons at Columbia University, he went on to train in Clinical Pathology at the Hospital of the University of Pennsylvania. In addition to his duties within the Hematology Laboratory, Dr. Obstfeld’s clinical responsibilities include leading the development of analyte tools to aid in laboratory quality management, administration, and operation, and interfacing with other groups throughout the hospital on informatics initiatives. His research focuses on utilizing clinical and pre-clinical laboratory data sets for predicting diagnosis and prognosis using statistical and machine learning techniques. Dr. Obstfeld plays a major role in designing and implementing educational experiences for pathology trainees and faculty at the University of Pennsylvania within the areas of clinical and pathology informatics.

Gary W. Procop, MD
Chief Executive Officer American Board of Pathology
ycop@abpath.org
Prior to Dr. Procop’s position with the ABPath, Dr. Procop was a Medical Director in Clinical Microbiology and an Infectious Disease Pathologist at the Cleveland Clinic. He held the Bialek Yale Lerman PhD and James Lerman MD Endowed Chair in Clinical Microbiology and was the Director of Molecular Microbiology, Virology, Mycology, and Parasitology laboratories and the Vice Chair for Education. Dr. Procop was a Trustee of the ABPath from 2007-2018 and served as President in 2016, Vice President in 2015 and Secretary in 2013-2014. His responsibilities at the ABPath included Chair of the Test Development and Advisory Committee for Microbiology, the Ethics and Professionalism Committee, and the Maintenance of Certification Committee. In August 2019, he was honored for his many contributions to the ABPath as a Life Trustee. Dr. Procop received a Bachelor of Science degree from Eastern Michigan University, followed by MD and MS degrees at Marshall University School of Medicine. He completed residency training in Anatomic and Clinical Pathology at Duke University Medical Center and fellowship training in Clinical Microbiology at the Mayo Clinic. He is board certified in Anatomic and Clinical Pathology, Medical Microbiology, and is participating in Continuing Certification. Dr. Procop serves on the ASMB Board of Directors and is a Fellow of the American Academy of Microbiology, the College of American Pathologists, the American Society for Clinical Pathology, the Infectious Diseases Society of America, and the Royal Society of Tropical Medicine and Hygiene.

Jansen Seheult, MB CHB
Assistant Associate Consultant, Mayo Clinic
Jansen N Seheult, MB CHB, MSc, MD, is a Senior Associate Consultant in the Division of Hematopathology, Department of Laboratory Medicine and Pathology at Mayo Clinic, Rochester in the United States. He completed his residency training in clinical pathology and fellowship training in Blood Banking/Transfusion Medicine at the University of Pittsburgh Medical Center (UPMC) in Pittsburgh, PA as well as fellowship training in Special Coagulation at the Mayo Clinic, Rochester, MN. Dr. Seheult has extensive experience in data analytics, simulation techniques and machine learning. His doctoral research at the Royal College of Surgeons in Ireland focused on development of a novel technology for acoustic signal processing of time-stamped intaker events for the prediction of drug delivery from a dry powder inhaler. Dr. Seheult’s artificial intelligence (AI) interests include natural language processing for automated text report generation for pathology reports, segmentation and object detection algorithms for benign and malignant hematopathology, and neural networks for automated flow cytometry analysis and gating.

Michelle Stoffel, MD, PhD
Associate CMO for Lab Medicine and Pathology MinnHealth Fairview, University of Minnesota
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Michelle Stoffel, MD, PhD, is the Associate CMO for Laboratory Medicine and Pathology at the M Health Fairview health system and an Assistant Professor in the Department of Laboratory Medicine and Pathology at the University of Minnesota. Her academic and operational focus is on bridging the practice of informatics from the lab to clinicians and patients through the electronic medical record, with additional interests in clinical and pathology informatics education.

Ila Singh, MD, PhD
Chief, Laboratory Medicine & Pathology Informatics, Texas Children’s Hospital Professor, Baylor College of Medicine
ilsingh@texaschildrens.org
Currently Mr. Sam Terese holds the position of Chief Executive Officer and President of Alverno Laboratories. Sam Terese, MBA, MT (ASCP), has more than 40 years of experience in laboratory medicine. During his tenure in the laboratory, he has held positions as Phlebotomist, Medical Technologist, Laboratory Director, Vice President, and Chief Operating Officer. Mr. Terese holds an M.B.A. from the University of Illinois at Chicago in Strategic Planning and Marketing and bachelor’s degrees in Medical Technology from Rosalind Franklin University Chicago and Biology from the State University of New York at Buffalo. Alverno Laboratories owns or operates 24 hospital laboratories and partners with several other hospitals and operates an extensive reference laboratory operation in Hammond Indiana.

Darren Treanor, MB, BSc (Computing), PhD, FRCPath
Consultant Pathologist & Director of National Pathology Imaging Cooperative
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Prof. Darren Treanor MB BSc (Computing) MD PhD is a consultant pathologist at Leeds Teaching Hospitals NHS Trust, honorary professor of pathology at the University of Leeds, adjunct professor in digital pathology at Linköping University, Sweden and Digital Pathology Lead for the UK Royal College of Pathologists. He is a clinical lead of the UKRI Centre for Doctoral Training in Artificial Intelligence in Healthcare at the University of Leeds. Dual qualified in medicine and computing, Dr. Treanor runs the Leeds virtual pathology project, with a multi-disciplinary team working in digital pathology research and innovation. He has co-authored over 150 papers in the medical and computing literature, most of them concerned with the application or development of digital pathology in clinical and research areas. He is a director of the National Pathology Imaging Cooperative, a £30m Industry-NHS collaboration to deploy digital pathology across 22 sites in the North of England, covering a population of 6 million patients, and two national systems across a further 20 hospitals to support sarcoma/bone and paediatric tumour diagnosis. NIPC will use this infrastructure to develop and test artificial intelligence systems to diagnose cancer. At Linköping his research includes the clinical adoption and validation of digital pathology in a fully digitised department, and the development and implementation of AI. Other current projects include 3D tissue reconstruction, image analysis, colour measurement/conversion and the use of digital pathology in education and training. Further details are available at http://www.virtualpathology.leeds.ac.uk and npc.ac.uk.
Yinyin Yuan, PhD
Professor & Director of Computational Pathology, Department of Translational Molecular Pathology & Department of Pathology University of Texas, MD Anderson Cancer Center
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Dr. Yinyin Yuan is a professor and the Director of Computational Pathology Research Program at the Department of Translational Molecular Pathology, and the Co-Lead of the Institute for Data Science in Oncology, Focus Area One – Imaging and Digital Pathology at MD Anderson Cancer Center. She brings over a decade of experience in machine learning and digital pathology to cancer research, to develop innovative clinical tests and cancer therapies. Dr. Yuan obtained degrees in computer science from the University of Science and Technology of China (USTC), BS and University of Warwick (MSc and PhD), and has won prestigious awards and fellowships including the Pathologist Power List 2022 and a Junior Research Fellowship from Wolfson College, University of Cambridge. From 2012 to 2022 she headed the Computational Pathology and Integrative Genomics lab at 2012 in the Institute of Cancer Research, London. The focus of the Yuan lab is to decipher the tumor ecosystem through technological innovations in artificial intelligence (AI) and systematic interrogation of tissue biology using digital pathology and spatial transcriptomics, genetics, and protumors. The scientific mission of her program is to elucidate differential ongoing selective pressure as key ecological processes shaping the emergence of immune evasion and drug resistance. The goal is to create a new paradigm of technological advances and multidisciplinary convergences that will lead the way to novel digital biomarkers and ultimately to the new frontier of integrated diagnostics.

Mark A. Zaydman, MD, PhD
Assistant Professor, Pathology & Immunology, Washington University School of Medicine, St. Louis
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Mark A. Zaydman, MD, PhD, is an Assistant Professor of Pathology and Immunology at Washington University School of Medicine. His clinical and research efforts are focused on using informatics to help make the practice of laboratory medicine less of an art and more analytically grounded.

Mustafa Yousif, MD
Director of Digital Pathology, University of Michigan
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Dr. Mustafa Yousif is an Assistant Professor and the Director of digital Pathology at the University of Michigan in Ann Arbor, MI. He received his medical degree from the University of Al-Mustansiriyah in Baghdad, Iraq. He completed his anatomical and clinical pathology residency training at Wake Forest University. He subsequently completed a Gynecologic and Breast Pathology fellowship at the University of Pittsburgh Medical Center and a Pathology Informatics fellowship at the Department of Pathology Informatics, University of Michigan. Mustafa is interested in and has deep expertise in pathology informatics and digital pathology. His research interests include digital pathology and artificial intelligence, as well as gynecologic and breast pathology.

J. Mark Tuthill, MD
Department Head, Pathology Informatics, Henry Ford Health System
JMarkT@hfhs.org

J. Mark Tuthill, MD, completed pathology residency and informatics fellowship training at the University of Vermont College of Medicine- Fletcher Allen Health Care, and created the department’s division of pathology informatics. Dr. Tuthill is currently Division Head of Pathology Informatics at Henry Ford Health System in Detroit. Areas of interest include digital pathology implementation, Internet applications for laboratory services, laboratory information systems, business analytics, electronic health records and informatics training and education. Active in organized medicine, he is an adviser to the ASCP Annual Meeting Steering Committee, Delegate, Wayne Medical Society, Co-Director for the API's Pathology Informatics Summit; and Delegate for CDC's CIUAC committee. As a charter member of the Association for Pathology Informatics, Dr. Tuthill has worked for the API from its inception serving as president of the membership committee, education committee member, and the organization’s original planning group.

Drew Williamson, MD
Clinical Informatics Fellow Massachusetts General Hospital
drew.t.williamson@gmail.com

Drew Williamson earned his MD from Case Western Reserve University in Cleveland, Ohio, and completed Anatomic Pathology residency followed by Molecular Genetic Pathology fellowship at Brigham & Women’s Hospital. He is currently a fellow in Clinical Informatics at Massachusetts General and a member of the lab of Faisal Mahmood, where his research focuses on applying novel deep learning techniques to pathology data.

Mitko Veta, PhD
Assistant Professor, Biomedical Engineering Eindhoven University of Technology, The Netherlands
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Mitko Veta is an Assistant Professor in the Department of Biomedical Engineering, Eindhoven University of Technology, The Netherlands. His research focuses on the development and application of deep learning/artificial intelligence (AI) methods for medical image analysis and histopathology imaging in particular. His ultimate goal is to develop methodology that will lead to better patient care for the patients and reduction of healthcare costs.

Dennis Winsten, MS, FHIMSS, FCLMA
President, Dennis Winsten & Associates
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Dennis Winsten is president of Dennis Winsten & Associates, a laboratory information systems consulting firm, headquartered in Tucson, Arizona. He has over 30 years of experience with clinical and anatomic pathology laboratory information systems from both a user’s and provider’s perspective and in-depth knowledge of the various vendor systems, user requirements, and market and laboratory trends. His professional affiliations include: Association for Pathology Informatics (API), Healthcare Information and Management Systems Society (HIMSS) and Clinical and Laboratory Standards Institute (CLSI) - Asia Committee on Automation and Informatics. Published papers have included topics on laboratory system evaluation, selection, and installation, multi-site networks, system contract criteria, HIS interfacing, and other subjects related to laboratory information systems. He has been a speaker at numerous national seminars and professional meetings. He is Co-Editor, with Dr. Ray Aller, of CAP Today News/Byes and the annual CAP Today LIS and AP Systems surveys.

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Mark A. Zaydman, MD, PhD, is an Assistant Professor of Pathology and Immunology at Washington University School of Medicine. His clinical and research efforts are focused on using informatics to help make the practice of laboratory medicine less of an art and more analytically grounded.
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Pictured: Nova Smith, Executive Director/Senior Conference Manager; Beth Gibson, Assistant Conference Manager and CME Coordinator

Pictured: Grace Chae, Marketing and Events Coordinator; with Dave McClintock

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