API President’s Address
Monica de Baca, M.D.
President, Association for Pathology Informatics

SAVE THE DATE
2020 2021
May 18–21, 2020  May 3–6, 2021
NEW LOCATION
David L. Lawrence Convention Center and Westin Convention Center Hotel
PITTSBURGH, PA
Great Meeting!

- Total Attendees: 289
- Vendors/Exhibitors: 21
- Faculty: 48
- Travel Awardees: 17
- Short Abstracts and Posters:
  - Elevated to Talks: 6
  - Short Abstracts Presentations: 30
  - Posters: 42
  - **Challenge: Turn these into JPI manuscripts!**
- CME Activities: 13 Hours
- SAMS Activities: 13 Hours
- Great Reception
  - **Thanks: Leica Biosystems; Roche Diagnostics**
PI Summit: Thanks!

• Conference Committee
  • Ul Balis, Director
  • Mark Tuthill, Co-Director
  • Bruce Friedman
  • Thomas Durant
  • Nova Marie Smith, Senior Conference Manager
  • Beth Gibson, Conference Manager

• Workshop Organizers
  • Kinjal Shaw & Toby Cornish: Essential Topics in PI Workshops A & B
  • Anil Parwani: Digital Pathology Association Companion Meeting
  • Metin Gurcan: Histology Image Analysis (HIMA)
  • Monica de Baca, Mary Kennedy, Michael Tilkin: API, CAP, and ACR Workshop

• Staff
  • Ermi Palmieri
  • Tina Dutzik
  • Myra Rasul
  • Catrina Herring
  • Jenna Cecchetti

• Advertising and Promotion
  • Bob McGonnagle / CAP / CAP Today

• Judging of Poster Sessions
  • Edward Klatt

• Many Others!
Presidential Address

PI Summit: Congratulations!

Travel Awardees: N = 17

API and the 2018 PI Summit Planning Committee are pleased to have received financial support to fund the Travel Awards for trainees to attend. Awards are presented at the Travel Awardee Luncheon by the Co-Chairs of the API Training and Education Committee: Victor Brodsky, MD, Kinjal Shah, MD, and Toby Cornish, MD, PhD.

Simone Arivisals-Anhalt, MD
University of Texas Southwestern Medical Center

Swikrity Baskota, MD
University of Pittsburgh Medical Center

Paul Christensen, MD
Houston Methodist Hospital

Jae-Hoon Chung, MD/PhD (student)
The Ohio State University College of Medicine

Khalda Ibrahim, MD
University of Louisville

Shohel Ikoma, MD
UCLA

Jennifer Jakubowski
Drexel University

Iny Jhun, PhD (student)
Harvard Medical School

Hansen Lam, MD
Icahn School of Medicine Mount Sinai

Rufel, Lu, MD, PhD
University of Oklahoma College of Medicine

Emilio Madrigal, DO
Massachusetts General Hospital

Mousumi Roy, PhD candidate
Stony Brook University

Hossain Shakhawat, MS, PhD
Memorial Sloan Kettering Cancer Center

Lauren Skvarca, MD, PhD
University of Pittsburgh Medical Center

Aryeh Stock, MD
Icahn School of Medicine Mount Sinai

Rami, Vanguri, MS, PhD
Columbia University

Jacob Wooldridge, MD
University of Texas Medical Branch
PI Summit: Travel Award

Travel Award Sponsors – Thank You!
PI Summit: Thanks!
Vendors: N = 21

PLATINUM LEVEL
Hamatasu Corporation    Roche Diagnostics

GOLD LEVEL
Leica Biosystems
PI Summit: Thanks!

Vendors: N = 21

SILVER LEVEL

Abbott Informatics
AetherAI
Apollo
Caliber Imaging & Diagnostics, Inc.
General Data Healthcare, Inc.
Huron Digital Pathology
Inspirata
Mikrosan

Sakura Finetek USA, Inc.
Sectra Pathology PACS
Sunquest Information Systems, Inc.
Thermo Fisher Scientific
Visiopharm
Visiun
Voicebrook

BRONZE LEVEL

Gestalt Diagnostics
SPOT Imaging

NON-PROFIT ORGANIZATION

Digital Pathology Association
PI Summit: Meeting Feedback

• Please complete the post-conference survey which will be sent following the meeting

• Need Input
  • Themes / Topics
  • Organization
  • Timing
  • Speakers
  • Join API Committees!!
API: Educational Efforts

• Overarching Goals of API
  • Promote the Field of Pathology Informatics
  • Provide Education in Pathology Informatics

• Pathology Informatics Summit  
  Our Flagship Meeting

• ASCP Annual Meeting 2019
  September 11-13 | Phoenix, AZ
  11 hours of API / Informatics content

• USCAP Annual Meeting 2020
  February 29-March 5 | Los Angeles, CA
  API Companion Society Meeting
API: Other Collaborations: Education Focus

• **Sunquest Webinars on Pathology Informatics Topics**
  - Bruce Friedman

• **Digital Pathology Association (DPA):**
  Companion Meeting at PI Summit

• **CAP and Association of Pathology Chairs (APC / PRODS)**
  - Pathology Informatics Essentials for Residents (PIER)
  - ACR/CAP/API Working Group Initiative

• **ASCP**
  - University of Pathology Informatics
Digital Pathology Workshop 3.0

Registration Limited to 80

Your chance to further your understanding of digital pathology technology fundamentals.

API Digital Pathology and AI Workshop 3.0

December 13–14, 2019 • UPMC Pathology Pittsburgh

Topics covered include: the development of RFPs for the digital pathology equipment, improving surgical pathology workflow on the basis of LEAN principles, and integration of the new technology with current LISs and automated equipment. Registration limited to 80 on a first-come, first-served basis.

Registration for attendees and sponsors opens June 1, 2019.

PathologyInformatics.org
# API: 2019 Governing Council

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Affiliations</th>
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<tbody>
<tr>
<td>President</td>
<td>Monte E. de Loma, M.D.</td>
<td>Pathologist, MD Pathology, Clinical Laboratory Improvement Advisory Committee, CDC</td>
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<tr>
<td>President-Elect</td>
<td>Navin E. Dandapani, M.D., Ph.D.</td>
<td>Associate Professor, Department of Pathology, MD Anderson Cancer Center</td>
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<td>Past President</td>
<td>David Wood, M.D.</td>
<td>Associate Chair, University of Michigan, Director, Digital Pathology</td>
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<tr>
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<td></td>
<td>Associate Professor, Department of Pathology, University of Michigan</td>
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<td>Secretary</td>
<td>Brian Gessert, M.D.</td>
<td>Clinical Associate Professor, Division of Pathology, East Carolina University</td>
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<td>Treasurer</td>
<td>Bruce Levy, M.D., CPC</td>
<td>Professor of Diagnostic Imaging, Commonwealth School of Medicine, Program Director of the CI Pathology, Associate Chair, VA Medical Center, GE Healthcare, Shands/Health System</td>
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[link to API website](pathologyinformatics.org/api_governing_council.php)
### API: 2019 Governing Council

#### Publications Committee Co-Chairs
- **Michael Hecht, MD, PhD**
  - Consultant, Laboratory of Pathology
  - National Institutes of Health - National Cancer Institute

- **Freddy Bowers, MD, PhD**
  - Consultant, Laboratory of Pathology
  - National Institutes of Health - National Cancer Institute

#### Technical Standards Committee Co-Chairs
- **Michael Logg, Ph.D**
  - Consultant, Laboratory of Pathology
  - National Institutes of Health - National Cancer Institute

- **Jason M. Baue, MD**
  - Assistant in Pathology
  - Massachusetts General Hospital
  - Assistant Professor in Pathology
  - Harvard Medical School

#### Pathology Informatics Summit Planning Committee Co-Chairs
- **Ali F. Fawazani, MD, PhD**
  - Professor of Pathology
  - Vice Chair and Director of Anatomic Pathology
  - The Ohio State University
  - Editor-in-Chief, Journal of Pathology Informatics

- **Leonard Pasquale, MD**
  - Director of Pathology
  - Informational System
  - Division of Pathology
  - University of Pittsburgh
  - Editor-in-Chief, Journal of Pathology Informatics

- **Ulysses J. Bai, MD**
  - Associate Professor of Pathology
  - Director, Pathology Informatics Fellowship Program
  - Professor of Pathology
  - Department of Pathology
  - University of Michigan Health System

- **J. Mark Tobin, MD**
  - Division Head, Pathology Informatics
  - Henry Ford Health System
  - Detroit, MI
API: Infrastructure and Support

• **Nova Smith** — Association for Pathology Informatics
  • API Executive Director
  • Pathology Informatics Summit Senior Conference Manager
  • API Membership Coordinator
  • Journal of Pathology Informatics Managing Editor

• **Beth Gibson** — University of Michigan
  • Pathology Informatics Summit Assistant Conference Manager

• **Rebecca Boes** — University of Pittsburgh
  • API Web Developer
API: Membership
We Need YOU!

• There are multiple ongoing efforts
  Join an API Committee!!
• Pathology Informatics is the foundation for the future success of the entire field of Pathology

• You do **NOT** have to be a card-carrying (board certified) informatician/informaticist to join the API

• **EVERYONE** is welcome, and we mean it!
  • Any age (it’s never too late)
  • Any level of training
  • Any vocation (corporate, academic, community, etc.)
  • Any location in the world
API:
Benefits of API Membership

• Access to the API Listserv
  • Difficult problem at work? Consult with PathBytes!
  • Mentoring for new faculty members
  • Keep abreast of what is new in Pathology Informatics

• Educational Content
  • Webinar content
  • PowerPoint files from Educational Conferences

• Reduced authorship fees for *Journal of Pathology Informatics* - $100 US (*unlimited per membership year*)
If you are interested in Pathology Informatics...

This is the organization for you!
Distinguished Service Award: 2019

Mary Kennedy

College of American Pathologists

Director, Clinical Informatics Initiatives
Association for Pathology Informatics
Lifetime Achievement Award

Presented Annually by API

Criteria

- Significant contributions to the development of pathology informatics as a clinical and academic subspecialty of Pathology
- Achievements documented as publications and lectures or as evidence of vision and leadership, such as in the development of products or involvement in initiatives that have had significant impact on and advanced the field of pathology informatics

Process

- Nominations
  - API Membership
- Selection
  - API Governing Council Members: present and past
Association for Pathology Informatics
Lifetime Achievement Award

- Sidney A. Goldblatt, M.D. 2002
- Donald P. Connelly, M.D., Ph.D. 2003
- William R. Dito, M.D. (Deceased) 2004
- Raymond D. Aller, M.D. 2005
- Bruce A. Friedman, M.D. 2006
- G. William Moore, M.D., Ph.D. (Deceased) 2007
- Michael J. Becich, M.D., Ph.D. 2008
- Michael D. McNeely, M.D. (Deceased) 2009
- Ronald S. Weinstein M.D. 2010
- Jules J. Berman, M.D., Ph.D. 2011
- Franklin R. Elevitch, M.D. 2012
- Donald A.B. Lindberg, M.D. 2013
- Thomas L. Lincoln, M.D. (Deceased) 2014
- Robert McGonnagle 2015
- Walter Henricks, M.D. 2016
- John R. Gilbertson, M.D. 2017
- Ulysses Balis, M.D. 2018
Liron Pantanowitz, M.D.

- University of Pittsburgh
  - Professor of Pathology
  - Professor of Biomedical Informatics
- Vice Chair for Pathology Informatics, UPMC
- Director of Pathology Informatics, UPMC
- Director of Cytology, UPMC Shadyside
- Director Pathology Informatics Fellowship, UPMC
- Over 250 peer-review publications and multiple textbooks
- Co-Founder and Co-Editor-in-Chief of the Journal of Pathology Informatics

Liron Pantanowitz, M.D.

- **Association for Pathology Informatics**
  - Founding Member
  - President – 2013
  - Program Committee Chair

- **College of American Pathologists**
  - Informatics Committee
  - Digital Pathology Working Group
  - Pathology Informatics Essentials for Residents Workgroup

- **American Society for Clinical Pathology**
  - Book Proposal Review Committee

- **Clinical Informatics Subspecialty Boards Exam Committee**
  - Founding Member

“Just because you’re bringing in new technology doesn’t mean you’re going to do a better job. The people have to be willing to work with the technology and be efficient.”

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May 18-21, 2020

NEW LOCATION

David L. Lawrence Convention Center
and Westin Convention Center Hotel

PITTSBURGH, PA

2021
May 3-6, 2021
# 2019 UPDATE

<table>
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<tr>
<th>Editors-in-Chief</th>
<th>Managing Editor</th>
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<tbody>
<tr>
<td>Liron Pantanowitz</td>
<td>Nova Smith</td>
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<td>Anil V. Parwani</td>
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Where are We?

JPI is starting its 10th year (since March 2010)

Our editorial board continues to grow
• Both USA & international members
• Visit [http://www.jpathinformatics.org/editorialboard.asp](http://www.jpathinformatics.org/editorialboard.asp)

JPI is publishing many symposia
• E.g. Pathology Visions (DPA), Nordic & ECDP

Scopus citation overview for a set of 152 documents gives an *h-index* as 10.

Indexed with DOAJ, Index Copernicus, PubMed Central, SCOPUS
Journal Current Status

- Journal of Pathology Informatics is with Wolters Kluwer Health | Medknow since March 2010.

- Journal of Pathology Informatics is the official journal of Association for Pathology Informatics (API). The journal is an online only journal.

- Print ISSN: 2229-5089; Online ISSN: 2153-3539

- The frequency of the journal is bimonthly.

- Scopus citation overview for a set of 152 documents gives H Index as 10.
Journal’s current Indexing

- The journal is registered with the following abstracting partners:
  
  Baidu Scholar, CNKI (China National Knowledge Infrastructure), EBSCO Publishing's Electronic Databases, Ex Libris – Primo Central, Google Scholar, Hinari, Infotrieve, National Science Library, ProQuest, TdNet, Wanfang Data

- The journal is indexed with, or included in, the following:

  DOAJ, PubMed Central, SCOPUS
The above graph shows citation overview for a set of 152 documents and gives H index as 10.
The journal has observed 43% overseas article submissions, whereas the submissions from the native country was 57% in 2018.
The journal has observed submissions of around 100 manuscripts per year. 99 manuscripts have been submitted in 2018.
The journal has observed a low rejection rate ranging between 34% to 45%. The rejection rate for 2018 was 43%.
The journal has been publishing substantial number of articles every year from 2010 till 2016. 50 articles have been published in 2018.
Commentary: And they said it couldn't be done: Predicting known driver mutations from H&E slides
Michael C Montalto, Robin Edwards
J Pathol Inform 2019, 10:17 (8 May 2019)
DOI: 10.4103/jpi.jpi_91_18
[HTML Full text] [PDF] [Mobile Full text] [EPub] [Supporting Information] [Crossref] [Web of Science] [PubMed]

Research Article: Burden and characteristics of unsolicited emails from medical/scientific journals, conferences, and webinars to faculty and trainees at an academic pathology department
Matthew D Krasowski, Jamna C Lawrence, Angela S Briggs, Bradley A Pard
J Pathol Inform 2019, 10:16 (8 May 2019)
DOI: 10.4103/jpi.jpi_12_18
[ABSTRACT] [HTML Full text] [PDF] [Mobile Full text] [EPub] [Supporting Information] [Crossref] [Web of Science] [PubMed]

Research Article: An Introduction to Digital Image Analysis in Whole-slide Imaging: A White Paper from the Digital Pathology Association
J Pathol Inform 2019, 10:15 (8 May 2019)
DOI: 10.4103/jpi.jpi_5_19
[HTML Full text] [PDF] [Mobile Full text] [EPub] [Supporting Information] [Crossref] [Web of Science] [PubMed]

Review Article: National Society for Histotechnology and digital pathology association online self-paced digital pathology certificate of completion program
J Pathol Inform 2019, 10:14 (3 April 2019)
DOI: 10.4103/jpi.jpi_3_19
[ABSTRACT] [HTML Full text] [PDF] [Mobile Full text] [EPub] [Supporting Information] [Crossref] [Web of Science] [PubMed]

Original Article: Construction and utilization of a neural network model to predict current procedural terminology codes from pathology report texts
Jay J Yuh
J Pathol Inform 2019, 10:13 (3 April 2019)
DOI: 10.4103/jpi.jpi_3_19
[ABSTRACT] [HTML Full text] [PDF] [Mobile Full text] [EPub] [Supporting Information] [Crossref] [Web of Science] [PubMed]
Website Visitors Analysis

- Users: 52,637
- New Users: 51,916
- Sessions: 70,943
- Number of Sessions per User: 1.35
- Pageviews: 132,824
- Pages / Session: 1.87
- Avg. Session Duration: 00:01:24
- Bounce Rate: 65.95%

- New Visitor: 92.7%
- Returning Visitor: 7.3%
Mobile Device Information

<table>
<thead>
<tr>
<th>Mobile Device Info</th>
<th>Acquisition</th>
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<tbody>
<tr>
<td></td>
<td>Users</td>
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<tr>
<td></td>
<td>% of Total</td>
</tr>
<tr>
<td>Apple iPhone</td>
<td>6,637%</td>
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<tr>
<td>Apple iPad</td>
<td>2,689</td>
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<tr>
<td>Microsoft Windows RT Tablet</td>
<td>184</td>
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<tr>
<td>Xiaomi Redmi Note 4</td>
<td>66</td>
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<td>Samsung SM-G950F Galaxy S8</td>
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<td>Samsung SM-G610F J7 Prime</td>
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<tr>
<td>Acer A1-850 Iconia</td>
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<tr>
<td>Meizu MX4 Pro</td>
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<tr>
<td>Samsung SM-G930F Galaxy S7</td>
<td>39</td>
</tr>
<tr>
<td>Samsung SM-G935F Galaxy S7 Edge</td>
<td>36</td>
</tr>
</tbody>
</table>

For accessing the journal contents; iPad and iPhones are being used at maximum occasions.
The above table shows country-wise analysis of journal’s website visitors and details of their visits for the year 2018.
The above table shows city-wise analysis of journal’s website visitors and details of their visits for the year 2018.
Most Popular Article Of 2018

Convolutional Deep Belief Network with Feature Encoding for Classification of Neuroblastoma Histological Images

Sohella Gheisari¹, Daniel R. Catchpole¹, Amanda Charlton², Paul J. Kennedy¹

¹Centre for Artificial Intelligence, Faculty of Engineering and Information Technology, University of Technology Sydney, NSW, ²The Tumour Bank, The Children's Cancer Research Unit, The Kids Research Institute, The Children's Hospital at Westmead, Locked Bag 4001 Westmead, NSW, Australia, ³LabPLUS, Department of Histopathology, Auckland District Health Board, Auckland City Hospital, Grafton, Auckland

Received: 30 November 2017
Accepted: 11 April 2018
Published: 02 May 2018

Abstract

Background: Neuroblastoma is the most common extracranial solid tumor in children younger than 5 years old. Optimal management of neuroblastic tumors depends on many factors including histopathological classification. The gold standard for classification of neuroblastoma histological images is visual microscopic assessment. In this study, we propose and evaluate a deep learning approach to classify high-resolution digital images of neuroblastoma histology into five different classes determined by the Shimada classification. Subjects and Methods: We apply a combination of convolutional deep belief network (CDBN) with feature encoding algorithm that automatically classifies digital images of neuroblastoma histology into five different classes. We design a three-layer CDBN to extract high-level features from neuroblastoma histological images and combine with a feature encoding model to extract features that are highly discriminative in the classification task. The extracted features are classified into five different classes using a support vector machine classifier. Data: We constructed a dataset of 1043 neuroblastoma histological images derived from Aperio scanner from 125 patients representing different classes of neuroblastoma tumors.

Number of times this article was viewed = 87,036

Access this article online

Quick Response Code:  
Website: www.jpathinformatics.org
DOI: 10.4103/jpi.jpi_34_17
Social Media

JUNIOR EDITORS
Gillian Franklin
Matthew Hanna
Presidential Address

The journal charges the following fee on acceptance:
- Brief report, Case report, Images, Book reviews, Technical note: US $300:
- Original Article, Research article: US $400
- Symposiums and Conference Proceedings - $40 per page
- Invited Book Reviews: Free

Publication fees are for current members of the Association for Pathology Informatics (API): $100 US (unlimited per membership year)

JOIN API - Become a member today
Submit Your Manuscript to the Official Journal of the Association for Pathology Informatics

Visit JournalofPathologyInformatics.com and click on “Submission”

Cost of Publication: $100 for API Members

Turnaround: RAPID review and time to publication

About JPI

The Journal of Pathology Informatics (JPI) is an open access peer-reviewed journal dedicated to the advancement of pathology informatics. The journal aims to publish broadly about pathology informatics, guidelines & symposia and freely disseminate all articles worldwide. JPI is of interest to pathologists, informaticians, academics, researchers, health IT specialists, information officers, IT staff, vendors, and anyone with an interest in informatics. We encourage submissions from anyone with an interest in the field of pathology informatics.