Association for Pathology Informatics
ANNUAL REPORT 2015

Report from the President

Dear Members and Colleagues:

On behalf of the Governing Council of the Association for Pathology Informatics (API), I am pleased to provide the President's letter for the 2015 *API Annual Report*. The API was formed in 2000 and is dedicated to the specialty of Pathology Informatics. 2015 represented our seventh year as a separately chartered and fully independent professional association. We continue to make considerable progress in advancing Pathology Informatics as a valued and respected subspecialty of pathology. Some of the highlights of the past year are listed below and are mentioned in greater detail within the pages of this Annual Report.

Pathology Informatics Summit 2015 (PathologyInformatics.com): The Pathology Informatics Summit was a resounding success for the organization and its members. With over 300 attendees, 1 Diamond Sponsor (Sunquest) , 4 Platinum Sponsors (Hamamatsu, Leica-Aperio, Roche-Ventana, SCC Soft Computer), 2 Gold Sponsors (Cerner, Data Innovations),19 silver sponsors (American Society for Clinical Pathology (ASCP), Atlas Medical, College of American Pathologists (CAP), Cortex Medical Management Systems, Cytosavvy, General Data Healthcare, Huron Digital Pathology, Lifepoint Informatics, Milestone Medical, Omnyx, LLC, Orchard Software, PathXL, Sakura Finetek USA, Inc., Software Testing Solutions (STS), Technidata Medical Software, ViewsIQ, Visiopharm, Voicebrook, Inc., XIFIN, Inc.), the energy was high and the connections and interactions significant. We are very grateful to all who attended for their participation.

- **Update on the API - American Society for Clinical Pathology (ASCP) Alliance**: The API and ASCP continue to collaborate on education efforts. The API provided over 20 hours of informatics content at the ASCP Annual Meeting held in Long Beach, California, from October 29-31, 2015. We will also be providing significant informatics content for the ASCP Annual Meeting in Las Vegas, Nevada, from September 14-16, 2016.

- **Teaching Program Memberships:** Last year we announced some exciting new teaching institutional memberships which will allow teaching institutions to expand the number of faculty and trainee memberships under the organizational umbrella. This opportunity was taken advantage of by several teaching institutions to cover additional members under their membership. The API Teaching Institutional Members continue to make significant contributions to both the success of API and to the success of the Pathology Informatics Summit. A significant number of institutional trainees attended the conference along with many prominent and active pathology department faculty. We are committed to continuing to expand the number of teaching institution programs as we move forward.

- **Presence of API in National Initiatives:** Representatives of the API have been involved in a number of national initiatives. The Pathology Informatics Essentials for Residents (PIER: APC.MemberClicks.net/PIER) was jointly developed by representatives from API, the College of American Pathologists (CAP), and the Association of Pathology Chairs (APC). This resource is intended to help pathology programs train pathology residents in informatics by providing an instructional resource guide. In addition, the API is officially represented on the laboratory TIGER team for the Office of the National Coordinator (ONC) for Health Information Technology and on other national standards organizations.

Report from the President (continued)

- **Journal of Pathology Informatics (JPI: JournalofPathologyInformatics.com):** JPI is now five years old and continues to publish important articles in the field of pathology informatics. This vehicle to disseminate our published work has become a major player in shaping our field. We are deeply indebted to the outstanding efforts of founding and current Editors-in-Chief Drs. Liron Pantanowitz and Anil Parwani for providing us with this peer-reviewed, open-access, PubMed-indexed resource. Submission of manuscripts regarding any element of the broad field of pathology informatics is welcomed and encouraged.

- **API-Sunquest Educational Webinars:** After the resounding success of the initial two series of Webinars provided by API experts with platform support from Sunquest Information Systems, Inc., the API and Sunquest are happy to announce that there will be a third series of free Webinars on hot topics in Pathology Informatics. These webinars are free of charge to API members and are also available to be downloaded from the members' only area of the API website. We thank Dr. Bruce Friedman for his outstanding efforts and vision in organizing these Webinars.

- **Other API Educational Programs:** The API was represented at a number of national conferences in 2015 in addition to the ASCP Annual Meeting, summarized above. API-branded content was delivered at the annual meetings of the College of American Pathologists and the Association for Molecular Pathology. The API will continue to participate as a Companion Society of the United States and Canadian Academy of Pathology (USCAP) and present at the annual USCAP meetings. API-branded content has also been delivered to the Pathology Visions meeting held by the Digital Pathology Association.

I want to recognize the efforts of the staff at both the API and the ASCP who have helped to move this organization in a positive direction. Nova Smith from the University of Pittsburgh has truly been the cornerstone of API operations, serving as the API Executive Director and Senior Course Manager, performing a wide variety of functions for the organization and ensuring that the leadership of API addresses salient issues. She has been joined by Beth Gibson of the University of Michigan as Assistant Course Manager and Beth's role has expanded to include assistance with membership and other organizational responsibilities. We also appreciate the expertise of Rebecca Boes of the University of Pittsburgh, our Web site developer. Barbara Karnbauer, recognized at the 2015 Pathology Informatics Summit with a Distinguished Service Award, has been in large part responsible for the continued success of the Pathology Informatics Summit and she will continue to assist with the on-site elements of the conference. We look forward to continuing to work closely with Nilda Barrett, Robert Lendi, and Steve Ciacciao at the ASCP in our various collaborations. Without the collective efforts of these important individuals, the API would not be as successful as it is today.

A special set of thanks is due to API members, including but not limited to members of the API Governing Council, who have dedicated so much time and effort to the advancement of this organization. Drs. Mark Tuthill, Ulysses Balis, and Bruce Friedman and the meeting planning team deserve special recognition for their heroic efforts in putting together our Pathology Informatics Summit meetings. Mark is also the coordinator for educational programming for the ASCP Annual Meeting.

I have greatly enjoyed my term as President of this wonderful organization and its members. Pathology Informatics is critically important for accurate, efficient, and improved patient care, and as such, it is the key to the future success of the discipline of Pathology and all of its subspecialties.

Sincerely,

Rodney Schmidt

RODNEY SCHMIDT, MD
API PRESIDENT, 2015

PATHOLOGY INFORMATICS SUMMIT 2016

May 23-26, 2016
Pittsburgh, PA

Brought to you by the Association for Pathology Informatics.

Special thanks to Dr. Michael Riben and Dr. Bruce Levy, Co-Chairs
API Training and Education Committee

Travel Awards at Pathology Informatics Summit May 2015

The Association for Pathology Informatics and the 2015 Pathology Informatics Planning Committee were pleased to have received financial support to fund eighteen (18) Travel Awards for trainees to attend at the Pathology Informatics Summit 2015 national meeting, held in Pittsburgh, PA May 5-8, 2015. Awards were presented at the Travel Awards Trainee Luncheon by the Co-Chairs of the API Training and Education Committee Bruce Levy, MD and Michael J. Riben, MD.

2015 TRAVEL AWARDEES

Asif Ali, MBBS, PhD
Institute of Basic Medical Sciences
and Institute of Public Health

Thomas Blomquist, MD, PhD
University of Toledo Medical Center

Ernest Chan, MD
University of Chicago Medical Center

Chancey Liam Christenson, MD, MPH
Tulane University Hospital

Thomas J S Durant, BHSc, MPT
University of Connecticut School of Medicine

Edward Goacher, MBChB
University of Leeds

Matthew Hanna, MD
Mount Sinai Hospital

Daniel Herman, MD
University of Washington

Philip Howard, MD
East Carolina University

Emilio Madrigal, DO
Mount Sinai Beth Israel/Roosevelt/St. Luke's

Patrick Mathias, MD, PhD
University of Washington

Andrei Plagov, MD
Drexel University College of Medicine

Joseph Rudolf, MD
Massachusetts General Hospital

Wade Schulz, MD, PhD
Yale University

Vishal Varma, PhD
University of Illinois at Chicago

Addie Walker, MD
Cleveland Clinic

Christopher Lee Williams, MD
University of Oklahoma Health Sciences Center

Keluo Yao, MD
The Ohio State University Wexner Medical Center

2015 TRAVEL AWARD SPONSORS

2015 INDIVIDUAL DONORS

Michael J. Becich, MD, PhD
Chairman and Professor, Department of
Biomedical Informatics, University of Pittsburgh

Mary Edgerton, MD, PhD
Associate Professor, Department of Pathology
The University of Texas MD, Anderson Cancer Center

Edward Klatt, MD
\Professor of Pathology and Director Biomedical
Problems Program, Mercer University

Michael W. Riben, MD
Associate Professor, Department of Pathology
and Laboratory Medicine
The University of Texas MD, Anderson Cancer Center

Mark Routbort, MD, PhD
Director, Computational and Integrational Pathology
The University of Texas MD, Anderson Cancer Center

Rodney Schmidt, MD, PhD
Professor, Department of Pathology
University of Washington

J. Mark Tuthill, MD
Division Head, Pathology Informatics
Henry Ford Health System

Pathology Informatics Summit 2015 Poster Session Winners

1st Place
Dmitriy Shin (Thursday)
EGFR-Sure Gold Nanorods Precisely
Quantify EGFR Expression

2nd Place
Edward Lockhart (Wednesday)
A Clinical-Grade Variant Template Designed
to Support Genomic Data Integration into
Clinical Applications

3rd Place
Daniel Rhoads (Wednesday)
Feasibility of Using the Panoptiq Imaging
System for Telemicrobiology

Journal of Pathology Informatics (JPI)

The *Journal of Pathology Informatics (JPI)* is an open access, peer-reviewed journal dedicated to the advancement of pathology informatics. This is the official journal of the Association of Pathology Informatics (API). The first issue was published in March 2010. The Journal of Pathology Informatics (JPI) is now in its fifth year and JPI continues to grow with over 65 publications in the last 12 months. We continue to have high-quality pathology informatics articles being submitted. We have decided to move forward with the renewal of our contract with Medknow for a period of three years. Dr. Liron Pantanowitz and Dr. Anil V. Parwani wish to thank the editorial board and the API for their continued support.

JPI aims to publish broadly about pathology informatics and freely disseminate all articles worldwide. All types of papers related to pathology informatics are published, including original research articles, technical notes, reviews, viewpoints, commentaries, editorials, book reviews, and correspondence to the editors. All submissions are subject to peer review by the editorial board and expert referees in appropriate specialties.

JPI is indexed with PubMed, Pubmed Central, Caspur, DOAJ, EBSCO Publishing's Electronic Databases, Expanded Academic ASAP, Genamics JournalSeek, Google Scholar, Health & Wellness Research Center, Health Reference Center Academic, Hinari, Index Copernicus, OpenJGate, PrimoCentral, ProQuest, SCOLOAR, SIIC databases, Summon by Serial Solutions, and Ulrich's International Periodical Directory.

Editors-in-chief are **Anil V. Parwani** and **Liron Pantanowitz**, University of Pittsburgh School of Medicine, Department of Pathology, Pittsburgh, PA.

The following are the PubMed listed articles from July 1, 2014 through June 30, 2015

Most-viewed original research article for FY15 published in the *Journal of Pathology Informatics*
Original Article: Seung Park, Anil Parwani, Trevor MacPherson, Liron Pantanowitz. Use of a wiki as an interactive teaching tool in pathology residency education: Experience with a genomics, research, and informatics in pathology course. *J Pathol Inform* 2012, 3:32 (30 August 2012) DOI:10.4103/2153-3539.100366

PUBMED LISTED ARTICLES THROUGH JULY 2014–JUNE 2015

Editorial: Twenty (forward looking) questions. Lewis A Hassell, Elizabeth A Wagar. J Pathol Inform 2014, 5:27 (30 July 2014) DOI:10.4103/2153-3539.137731 PMID:25191626

Technical Note: Development of an electronic breast pathology database in a community health system. Heidi D Nelson, Roshanthi Weerasinghe, Maritza Martel, Carlo Bifulco, Ted Assur, Joann G Elmore, Donald L Weaver. J Pathol Inform 2014, 5:26 (30 July 2014) DOI:10.4103/2153-3539.137730 PMID:25191625

Original Article: Evaluation of a teaching strategy based on integration of clinical subjects, virtual autopsy, pathology museum, and digital microscopy for medical students. Julio A Diaz-Perez, Sharat Raju, Jorge H Echeverri. J Pathol Inform 2014, 5:25 (30 July 2014) DOI:10.4103/2153-3539.137729 PMID:25191624

Technical Note: Smartphone adapters for digital photomicrography. Somak Roy, Liron Pantanowitz, Milon Amin, Raja R Seethala, Ahmed Ishtiaque, Samuel A Yousem, Anil V Parwani, Ioan Cucoranu, Douglas J Hartman. J Pathol Inform 2014, 5:24 (30 July 2014) DOI:10.4103/2153-3539.137728 PMID:25191623

Research Article: Automated grading of renal cell carcinoma using whole slide imaging. Fang-Cheng Yeh, Anil V Parwani, Liron Pantanowitz, Chien Ho. J Pathol Inform 2014, 5:23 (30 July 2014) DOI:10.4103/2153-3539.137726 PMID:25191622

Technical Note: The ongoing evolution of the core curriculum of a clinical fellowship in pathology informatics. Andrew M Quinn, Veronica E Klepeis, Diana L Mandelker, Mia Y Platt, Luigi K F Rao, Gregory Riedlinger, Jason M Baron, Victor Brodsky, Ji Yeon Kim, William Lane, Roy E Lee, Bruce P Levy, David S McClintock, Bruce A Beckwith, Frank C Kuo, John R Gilbertson. J Pathol Inform 2014, 5:22 (30 July 2014) DOI:10.4103/2153-3539.137717 PMID:25191621

Original Article: Validation of a novel robotic telepathology platform for neuropathology intraoperative touch preparations. Michael J Thrall, Andreana L Rivera, Hidehiro Takei, Suzanne Z Powell J Pathol Inform 2014, 5:21 (28 July 2014) DOI:10.4103/2153-3539.137642 PMID:25191620

Research Article: Can digital pathology result in cost savings? A financial projection for digital pathology implementation at a large integrated health care organization. Jonhan Ho, Stefan M Ahlers, Curtis Stratman, Orly Aridor, Liron Pantanowitz, Jeffrey L Fine, John A Kuzmishin, Michael C Montalto, Anil V Parwani. J Pathol Inform 2014, 5:33 (28 August 2014) DOI:10.4103/2153-3539.139714 PMID:25250191

Symposium: Carnegie Mellon University bioimaging day 2014: Challenges and opportunities in digital pathology. Gustavo K Rohde, John A Ozolek, Anil V Parwani, Liron Pantanowitz. J Pathol Inform 2014, 5:32 (28 August 2014) DOI:10.4103/2153-3539.139712 PMID:25250190

Editorial: Journal of Pathology Informatics thanks its reviewers. Liron Pantanowitz, Anil V Parwani J Pathol Inform 2014, 5:31 (28 August 2014) DOI:10.4103/2153-3539.139711 PMID:25250189

Editorial: American Telemedicine Association 2014 meeting: What did you miss? Liron Pantanowitz, Elizabeth A Krupinski. J Pathol Inform 2014, 5:30 (28 August 2014) DOI:10.4103/2153-3539.139710 PMID:25250188

Technical Note: Development and implementation of a custom integrated database with dashboards to assist with hematopathology specimen triage and traffic. Elizabeth M Azzato, Jennifer J D Morrissette, Regina D Halbiger, Adam Bagg, Robert D Daber. J Pathol Inform 2014, 5:29 (28 August 2014) DOI:10.4103/2153-3539.139709 PMID:25250187

Research Article: Automated quantification of aligned collagen for human breast carcinoma prognosis. Jeremy S Bredfeldt, Yuming Liu, Matthew W Conklin, Patricia J Keely, Thomas R Mackie, Kevin W Eliceiri. J Pathol Inform 2014, 5:28 (28 August 2014) DOI:10.4103/2153-3539.139707 PMID:25250186

Original Article: Can automated alerts within computerized physician order entry improve compliance with laboratory practice guidelines for ordering Pap tests? Lydia Pleotis Howell, Scott MacDonald, Jacqueline Jones, Daniel J Tancredi, Joy Melnikow. J Pathol Inform 2014, 5:37 (30 September 2014) DOI:10.4103/2153-3539.141994 PMID:25337434

Technical Note: Streamlined sign-out of capillary protein electrophoresis using middleware and an open-source macro application. Gagan Mathur, Thomas H Haugen, Scott L Davis, Matthew D Krasowski. J Pathol Inform 2014, 5:36 (30 September 2014) DOI:10.4103/2153-3539.141990 PMID:25337433

Research Article: Novel web-based real-time dashboard to optimize recycling and use of red cell units at a large multi-site transfusion service. Christopher Sharpe, Jason G Quinn, Stephanie Watson, Donald Doiron, Bryan Crocker, Calvino Cheng. J Pathol Inform 2014, 5:35 (30 September 2014) DOI:10.4103/2153-3539.141989 PMID:25337432

Research Article: Web-based pathology practice examination usage. Edward C Klatt. J Pathol Inform 2014, 5:34 (30 September 2014) DOI:10.4103/2153-3539.141987 PMID:25337431

Research Article: Web-based oil immersion whole slide imaging increases efficiency and clinical teamsatisfaction in hematopathology tumor board. Zhongchuan Will Chen, Jessica Kohan, Sherrie L Perkins,

Jerry W Hussong, Mohamed E Salama. J Pathol Inform 2014, 5:41 (21 October 2014) DOI:10.4103/2153-3539.143336 PMID:25379347

Research Article: A nuclear circularity-based classifier for diagnostic distinction of desmoplastic from spindle cell melanoma in digitized histological

images. Manuel Schöchlin, Stephanie E Weissinger, Arnd R Brandes, Markus Herrmann, Peter Möller, Jochen K Lennerz. J Pathol Inform 2014, 5:40 (21 October 2014) DOI:10.4103/2153-3539.143335 PMID:25379346

Guidelines: American Telemedicine Association clinical guidelines for telepathology. Liron Pantanowitz, Kim Dickinson, Andrew J Evans, Lewis A Hassell, Walter H Henricks, Jochen K Lennerz, Amanda Lowe, Anil V Parwani, Michael Riben, Daniel Smith, J Mark Tuthill, Ronald S Weinstein, David C Wilbur, Elizabeth A Krupinski, Jordana Bernard. J Pathol Inform 2014, 5:39 (21 October 2014) DOI:10.4103/2153-3539.143329 PMID:25379345

Editorial: Regulatory barriers surrounding the use of whole slide imaging in the United States of America. Anil V Parwani, Lewis Hassell, Eric Glassy, Liron Pantanowitz. J Pathol Inform 2014, 5:38 (21 October 2014) DOI:10.4103/2153-3539.143325 PMID:25379344

View Point: 21 st century workflow: A proposal. Jeffrey L Fine. J Pathol Inform 2014, 5:44 (28 November 2014) DOI:10.4103/2153-3539.145733 PMID:25535592

Technical Note: Validation of a whole slide imaging system for primary diagnosis in surgical pathology: A community hospital experience. Thomas P Buck, Rebecca Dilorio, Lauren Havrilla, Dennis G O'Neill. J Pathol Inform 2014, 5:43 (28 November 2014) DOI:10.4103/2153-3539.145731 PMID:25535591

Technical Note: Reqscan: An open source solution for laboratory requisition scanning, archiving and retrieval. Eviatar Bach, Daniel T Holmes. J Pathol Inform 2015, 6:3 (29 January 2015) DOI:10.4103/2153-3539.150256 PMID:25722943

Technical Note: Development and validation of an app-based cell counter for use in the clinical laboratory setting. Alexander C Thurman, Jessica L Davis, Max Jan, Charles E McCulloch, Benjamin D Buelow. J Pathol Inform 2015, 6:2 (29 January 2015) DOI:10.4103/2153-3539.150252 PMID:25722942

Research Article: Virtual microscopy in the undergraduate teaching of pathology. Oriol Ordi, Josep Antoni Bombí, Antonio Martínez, Josep Ramírez, Llúcia Alòs, Adela Saco, Teresa Ribalta, Pedro L Fernández, Elias Campo, Jaume Ordi. J Pathol Inform 2015, 6:1 (29 January 2015) DOI:10.4103/2153-3539.150246 PMID:25722941

Book Review: Review of "digital pathology" by Yves Sucaet and Wim Waelput. John H Sinard. J Pathol Inform 2015, 6:12 (24 February 2015)

Original Article: Performance of the CellaVision ® DM96 system for detecting red blood cell morphologic abnormalities. Christopher L Horn, Adnan Mansoor, Brenda Wood, Heather Nelson, Diane Higa, Lik Hang Lee, Christopher Naugler. J Pathol Inform 2015, 6:11 (24 February 2015) DOI:10.4103/2153-3539.151922 PMID:25774322

Original Article: A bayesian approach to laboratory utilization management. Ronald G Hauser, Brian R Jackson, Brian H Shirts. J Pathol Inform 2015, 6:10 (24 February 2015) DOI:10.4103/2153-3539.151921 PMID:25774321

Original Article: Clinical laboratory analytics: Challenges and promise for an emerging discipline. Brian H Shirts, Brian R Jackson, Geoffrey S Baird, Jason M Baron, Bryan Clements, Ricky Grisson, Ronald George Hauser, Julie R Taylor, Enrique Terrazas, Brad Brimhall. J Pathol Inform 2015, 6:9 (24 February 2015) DOI:10.4103/2153-3539.151919 PMID:25774320

Symposium - 2nd Nordic Symposium on Digital Pathology: RandomSpot: A web-based tool for systematic random sampling of virtual slides. Alexander I Wright, Heike I Grabsch, Darren E Treanor. J Pathol Inform 2015, 6:8 (24 February 2015) DOI:10.4103/2153-3539.151906 PMID:25774319

Symposium - 2nd Nordic Symposium on Digital Pathology: A comparative study of input devices for digital slide navigation. Jesper Molin, Claes Lundström, Morten Fjeld. J Pathol Inform 2015, 6:7 (24 February 2015) DOI:10.4103/2153-3539.151894 PMID:25774318

Symposium - 2nd Nordic Symposium on Digital Pathology: Histopathology in 3D: From three-dimensional reconstruction to multi-stain and multi-modal analysis. Derek Magee, Yi Song, Stephen Gilbert, Nicholas Roberts, Nagitha Wijayathunga, Ruth Wilcox, Andrew Bulpitt, Darren Treanor. J Pathol Inform 2015, 6:6 (24 February 2015) DOI:10.4103/2153-3539.151890 PMID:25774317

Symposium - 2nd Nordic Symposium on Digital Pathology: Summary of 2 nd Nordic symposium on digital pathology. Claes Lundström, Sten Thorstenson, Marie Waltersson, Anders Persson, Darren Treanor. J Pathol Inform 2015, 6:5 (24 February 2015) DOI:10.4103/2153-3539.151889 PMID:25774316

Commentary: Evaluating whole slide imaging: A working group opportunity. Darren Treanor, Brandon D Gallas, Marios A Gavrielides, Stephen M Hewitt. J Pathol Inform 2015, 6:4 (24 February 2015) PMID:25774315

Technical Note: Imaging file management to support international telepathology. Liron Pantanowitz, Jeffrey McHugh, William Cable, Chengquan Zhao, Anil V Parwani. J Pathol Inform 2015, 6:17 (24 March 2015) DOI:10.4103/2153-3539.153917 PMID:25838969

Research Article: Default settings of computerized physician order entry system order sets drive ordering habits. Jordan Olson, Christopher Hollenbeak, Keri Donaldson, Thomas Abendroth, William Castellani. J Pathol Inform 2015, 6:16 (24 March 2015) DOI:10.4103/2153-3539.153916 PMID:25838968

Research Article: Automated discrimination of lower and higher grade gliomas based on histopathological image analysis. Hojjat Seyed Mousavi, Vishal Monga, Ganesh Rao, Arvind U. K. Rao. J Pathol Inform 2015, 6:15 (24 March 2015) DOI:10.4103/2153-3539.153914 PMID:25838967

Commentary: Telecytopathology facilitates the use of rapid on-site evaluation in endoscopic ultrasound fine needle aspiration of the pancreas to improve patient outcomes. Brian T Collins. J Pathol Inform 2015, 6:14 (24 March 2015) PMID:25838966

Editorial: 2014 American Telemedicine Association clinical guidelines for telepathology: Another important step in support of increased adoption of telepathology for patient care. Andrew J Evans, Elizabeth A Krupinski, Ronald S Weinstein, Liron Pantanowitz. J Pathol Inform 2015, 6:13 (24 March 2015) DOI:10.4103/2153-3539.153906 PMID:25838965

Original Article: Distance reporting in digital pathology: A study on 950 cases. Aleksandar Vodovnik. J Pathol Inform 2015, 6:18 (30 April 2015) DOI:10.4103/2153-3539.156168 PMID:25969793

Review Article: A review of the current state of digital plate reading of cultures in clinical microbiology. Daniel D Rhoads, Susan M Novak, Liron Pantanowitz. J Pathol Inform 2015, 6:23 (28 May 2015) DOI:10.4103/2153-3539.157789 PMID:26110091

Original Article: Whole slide imaging for human epidermal growth factor receptor 2 immunohistochemistry interpretation: Accuracy, Precision, and reproducibility studies for digital manual and paired glass slide manual interpretation. David C Wilbur, Elena F Brachtel, John R Gilbertson, Nicholas C Jones, John G Vallone, Savitra Krishnamurthy. J Pathol Inform 2015, 6:22 (28 May 2015) DOI:10.4103/2153-3539.157788 PMID:26110090

Original Article: Prospector: A web-based tool for rapid acquisition of gold standard data for pathology research and image analysis. Alexander I Wright, Derek R Magee, Philip Quirke, Darren E Treanor. J Pathol Inform 2015, 6:21 (28 May 2015) DOI:10.4103/2153-3539.157785 PMID:26110089

Original Article: Automated morphometry provides accurate and reproducible virtual staging of liver fibrosis in chronic hepatitis C. Paul Calès, Julien Chaigneau, Gilles Hunault, Sophie Michalak, Christine Cavaro-Menard, Jean-Baptiste Fasquel, Sandrine Bertrais, Marie-Christine Rousselet. J Pathol Inform 2015, 6:20 (28 May 2015) DOI:10.4103/2153-3539.157782 PMID:26110088

Original Article: Rapid on-site evaluation with dynamic telecytopathology for ultrasound-guided fine-needle aspiration of head and neck nonthyroid lesions. Kamal K Khurana, Weisheng Xu, Dongliang Wang, Amar Swarnkar. J Pathol Inform 2015, 6:19 (28 May 2015) DOI:10.4103/2153-3539.157781 PMID:26110087

Symposium – International Academy of Digital Pathology (IADP): Reimagining the microscope in the 21 st century using the scalable adaptive graphics environment. Victor Mateevitsi, Tushar Patel, Jason Leigh, Bruce Levy. J Pathol Inform 2015, 6:25 (3 June 2015) DOI:10.4103/2153-3539.158042 PMID:26110092

Symposium – International Academy of Digital Pathology (IADP): Enhancing automatic classification of hepatocellular carcinoma images through image masking, tissue changes and trabecular features. Maulana Abdul Aziz, Hiroshi Kanazawa, Yuri Murakami, Fumikazu Kimura, Masahiro Yamaguchi, Tomoharu Kiyuna, Yoshiko Yamashita, Akira Saito, Masahiro Ishikawa, Naoki Kobayashi, Tokiya Abe, Akinori Hashiguchi, Michiie Sakamoto. J Pathol Inform 2015, 6:26 (3 June 2015) DOI:10.4103/2153-3539.158044 PMID:26110093

Symposium – International Academy of Digital Pathology (IADP): Understanding the three-dimensional world from two-dimensional immunofluorescent adjacent sections. Sho Fujisawa, Dmitry Yarilin, Ning Fan, Mesruh Turkekul, Ke Xu, Afsar Barlas, Katia Manova-Todorova. J Pathol Inform 2015, 6:27 (3 June 2015) DOI:10.4103/2153-3539.158052 PMID:26110094

Symposium – International Academy of Digital Pathology (IADP): A perspective on digital and computational pathology. Bhagavathi Ramamurthy, Frederick D Coffman, Stanley Cohen. J Pathol Inform 2015, 6:29 (3 June 2015) DOI:10.4103/2153-3539.158059 PMID:26110096

Symposium – International Academy of Digital Pathology (IADP): The use of virtual microscopy and a wiki in pathology education: Tracking student use, involvement, and response. Zev Leifer. J Pathol Inform 2015, 6:30 (3 June 2015) DOI:10.4103/2153-3539.158063 PMID:26110097

Symposium – International Academy of Digital Pathology (IADP): Comparative study between quantitative digital image analysis and fluorescence in situ hybridization of breast cancer equivocal human epidermal growth factor receptors 2 score 2 + cases. Essam Ayad, Mina Mansy, Dalal Elwi, Mostafa Salem, Mohamed Salama, Klaus Kayser. J Pathol Inform 2015, 6:31 (3 June 2015) DOI:10.4103/2153-3539.158066 PMID:26110098

Original Article: The need for informatics to support forensic pathology and death investigation. Bruce Levy. J Pathol Inform 2015, 6:32 (23 June 2015) DOI:10.4103/2153-3539.158907 PMID:26167376

Research Article: An optimized color transformation for the analysis of digital images of hematoxylin & eosin stained slides. Mark D Zarella, David E Breen, Andrei Plagov, Fernando U Garcia. J Pathol Inform 2015, 6:33 (23 June 2015) DOI:10.4103/2153-3539.158910 PMID:26167377

Original Article: Support system for pathologists and researchers. Takumi Ishikawa, Junko Takahashi, Mai Kasai, Takayuki Shiina, Yuka Iijima, Hiroshi Takemura, Hiroshi Mizoguchi, Takeshi Kuwata. J Pathol Inform 2015, 6:34 (23 June 2015) DOI:10.4103/2153-3539.158911 PMID:26167378

Research Article: Evaluation of a smartphone for telepathology: Lessons learned. Paul Fontelo, Fang Liu, Yukako Yagi. J Pathol Inform 2015, 6:35 (23 June 2015) DOI:10.4103/2153-3539.158912 PMID:26167379

Technical Note: HPASubC: A suite of tools for user subclassification of human protein atlas tissue images. Toby C Cornish, Aravinda Chakravarti, Ashish Kapoor, Marc K Halushka. J Pathol Inform 2015, 6:36 (23 June 2015) DOI:10.4103/2153-3539.159213 PMID:26167380

Original Article: Biomedical imaging ontologies: A survey and proposal for future work. Barry Smith, Sivaram Arabandi, Mathias Brochhausen, Michael Calhoun, Paolo Ciccarese, Scott Doyle, Bernard Gibaud, Ilya Goldberg, Charles E Kahn, James Overton, John Tomaszewski, Metin Gurcan. J Pathol Inform 2015, 6:37 (23 June 2015) DOI:10.4103/2153-3539.159214 PMID:26167381

Research Article: Validation of natural language processing to extract breast cancer pathology procedures and results. Arika E Wieneke, Erin J. A. Bowles, David Cronkite, Karen J Wernli, Hongyuan Gao, David Carrell, Diana S. M. Buist. J Pathol Inform 2015, 6:38 (23 June 2015) DOI:10.4103/2153-3539.159215 PMID:26167382

Research Article: Automated image based prominent nucleoli detection. Choon K Yap, Emarene M Kalaw, Malay Singh, Kian T Chong, Danilo M Giron, Chao-Hui Huang, Li Cheng, Yan N Law, Hwee Kuan Lee. J Pathol Inform 2015, 6:39 (23 June 2015) DOI:10.4103/2153-3539.159232 PMID:26167383

Original Article: Development of a semi-automated method for subspecialty case distribution and prediction of intraoperative consultations in surgical pathology. Raul S Gonzalez, Daniel Long, Omar Hameed. J Pathol Inform 2015, 6:40 (29 June 2015) DOI:10.4103/2153-3539.159439 PMID:26167384

Original Article: Content-based image retrieval of digitized histopathology in boosted spectrally embedded spaces. Akshay Sridhar, Scott Doyle, Anant Madabhushi. J Pathol Inform 2015, 6:41 (29 June 2015) DOI:10.4103/2153-3539.159441 PMID:26167385

Commentary: Environmental components and methods for engaging pathology residents in informatics training. Christopher A Garcia, Jason M Baron, Bruce A Beckwith, Victor Brodsky, Anand S Dighe, Thomas M Gudewicz, Ji Yeon Kim, Veronica E Klepeis, William J Lane, Roy E Lee, Bruce P Levy, Michael A Mahowald, Diana Mandelker, David S McClintock, Andrew M Quinn, Luigi K Rao, Gregory M Riedlinger, Joseph Rudolf, John R Gilbertson. J Pathol Inform 2015, 6:42 (29 June 2015) PMID:26167386

Update on The University of Pathology Informatics (UPI)

The University of Pathology Informatics (UPI) is a joint initiative sponsored by the American Society of Clinical Pathology and the Association of Pathology Informatics. The goals of the initiative is the creation of an educational offering around pathology informatics that applies to all of the roles in the laboratory, including both practicing professionals and trainees (I.e. medical technologists, histotechnologists, residents, physicians in practice, and administrators. The leadership committee this past year worked hard to define scope of the coursework, approved the curriculum blueprint, and developed the UPI curriculum map. We also recruited volunteers for work groups for content development around our four curriculum pillars (Information Fundamentals, Information Systems, Workflow and Process, and Management and Governance). These workgroups have been hard at work developing the content that will be available at the launch of the course. In addition several API members have had presentations recorded at both the API Summit held last May in Pittsburgh and the recent ASCP Annual Meeting in Long Beach which will be made available as part of the UPI online course offerings. The launch of the UPI educational offering had been originally slated to launch in October at the ASCP Annual meeting, but had to be delayed due to the ASCP's transition to a new learning management system. All indications are that the UPI will now launch in the spring around April, 2016. We had tremendous Interest generated at the ASCP Annual meeting with a prominent display regarding the offering and are working hard to package content that is relevant to the entire lab community. We are also looking forward to presenting UPI targeted on-site education at the API Summit in 2016. Stay tuned for more information coming soon!

Michael Riben, MD, Chair UPI leadership Committee
www.ASCP.org/UPI

API Teaching Institutional Members

Since its inception in 2011, API's Teaching Institutional Membership program has been very successful in attracting the 'best-in-class' academic institutions that have collectively demonstrated leadership in adopting and teaching information technology in the medical (and specifically pathology) specialties. API offers unlimited, free publication of all accepted articles in the Journal of Pathology Informatics to any faculty, resident, or fellow employed at an API Teaching Institution.

In FY15, API offered 2 new levels of Teaching Institutional Membership in addition to the Basic Membership, Expanded and Premium memberships are now also available.

Basic Teaching Membership for $1500 which includes membership for the department chair, 2 faculty/senior staff, and 4 interns, residents, or fellows (your current level of membership)

Expanded Teaching Membership for $1750 which includes membership for the department chair, 5 faculty/senior staff, and 8 interns, residents, or fellows

Premium Teaching Membership for $2000 which includes membership for the department chair, 8 faculty/senior staff, and 12 interns, residents, or fellows

FY15 TEACHING INSTITUTIONAL MEMBERS:

PREMIUM TEACHING MEMBERSHIP

State University of New York at Buffalo
Pathology and Anatomical Sciences
Buffalo, NY

North Shore—Long Island Jewish Health System
Department of Pathology
Lake Success, NY

EXPANDED TEACHING MEMBERSHIP

UCLA David Geffen School of Medicine
Pathology and Laboratory Medicine
Los Angeles, CA

University of Pittsburgh Medical Center
Department of Pathology
Pittsburgh, PA

BASIC TEACHING MEMBERSHIP

Albert Einstein College of Medicine, Montefiore Medical Center
Weiler Division, Department of Pathology
New York, NY

Beth Israel Deaconess Medical Center
Department of Pathology
Boston, MA

Cleveland Clinic
Center for Pathology Informatics
Cleveland, OH

Duke University
Department of Pathology
Durham, NC

East Carolina University
Greenville, North Carolina

Emory University
Department of Biomedical Informatics
Atlanta, GA

Emory University School of Medicine
Department of Pathology and Laboratory Medicine
Atlanta, GA

Henry Ford Health System
Department of Pathology
Detroit, MI

Icahn School of Medicine at Mount Sinai
Department of Pathology
New York, NY

The University of Texas MD Anderson Cancer Center
Department of Pathology
Houston, TX

Stanford University School of Medicine
Department of Pathology
Stanford, CA

University of Alabama at Birmingham
Department of Pathology
Birmingham, AL

University of Calgary
Calgary Laboratory Services
Pathology and Laboratory Medicine
Calgary, Alberta, Canada

University of California, Davis Health System
Department of Pathology
Davis, CA

University of California, San Francisco
Department of Laboratory Medicine
San Francisco, CA

University of Colorado
Aurora, CO

University of Colorado Denver
Department of Pathology
Denver, CO

University of Illinois at Chicago
Department of Pathology
Chicago, IL

University of Miami, Miller School of Medicine
Department of Pathology
Miami, FL

University of Michigan Health System
Division of Pathology Informatics
Ann Arbor, MI

University of Pittsburgh School of Medicine
Department of Biomedical Informatics
Pittsburgh, PA

University of Southern California
Department of Pathology
Los Angeles, CA

University of New Mexico Health Sciences Center
Department of Pathology
Albuquerque, NM

Yale School of Medicine
Department of Pathology
New Haven, CT

TEACHING INSTITUTIONAL MEMBERSHIP BENEFITS INCLUDE:

- Home page recognition on pathologyinformatics.org

- Two mentor-educator memberships as sustaining members of API and sustaining membership for the department chair

- Four trainee memberships in API

- Discounted registration for the national meeting, Pathology Informatics, including an API presidents' trainees lunch

- No-cost publication of accepted articles in the *Journal of Pathology Informatics* (JPI)

2014 API Lifetime Achievement Award

The Association for Pathology Informatics presented its Lifetime Achievement Award for 2014 to Thomas Lincoln, M.D. at the ASCP 2014 annual meeting in Tampa. The presenter was Dr. Rodney Schmidt.

Dr. Lincoln had been a faculty member for over 3 decades in the Department of Pathology at the Keck School of Medicine of University of Southern California, quickly rising to the rank of Professor, specializing in medical informatics. In 1981, he directed the implementation of comprehensive laboratory information systems at the LAC/USC Medical Center, one of the largest/most complex hospital laboratories in the United States. He served as Chief of Clinical Information Systems at Los Angeles County/University of Southern California Medical Center. He also served as a scientist at the RAND Corporation, beginning in 1967, focusing on computer applications in the fields of medicine and healthcare. From 1995 to 1996 he was Consultant Chief Scientist for Sunquest Information Systems in Tucson AZ. Between 1997 and 2000 he served as Research Professor of Medical Informatics in the School of Biomedical and Health Information Sciences at the University of Illinois at Chicago, working with the HL7 XML SIG and PRA (Patient Record Architecture) Technical Committee on XML applications for healthcare messaging and record formatting.

Dr. Lincoln served as a key informatics faculty member of the CAP and ASCP national meetings from the 1970's thru 1990's. He has published articles focused on a range of topics but with most in reference to improvements of the clinical laboratory and in them including some of the earliest articles in the literature making specific reference to medical informatics and the electronic medical record. A seminal 1980 article in Science entitled

Thomas Lincoln, M.D.

"Computers, Health Care, and Medical Information Science" helped define the specialty of Clinical Informatics. In a 1983 JAMA article entitled: "Ready! Fire! … AIM! An Inquiry into Laboratory Test Ordering": "We concluded that the improved use of thyroid tests was due to the new request form and that education had little, if any, effect on test-ordering behavior." … " In computerized laboratories that provide access to the data base of laboratory tests, clinical pathologists can identify patterns of illogical or excessive test use; by virtue of the medical expertise and detailed knowledge of laboratory measurement, they have the requisite professional skills to design appropriate testing protocols to replace poor ordering procedures." This statement rings true in 2015 too, 30 years later … and anticipates the opportunities the opportunities afforded by online ordering. In the era of online ordering … and order sets … the ability to guide ordering (with or without an education component) has come full circle.

Dr. Lincoln was Emeritus Professor in the Department of Pathology at the University of Southern California. He died on March 1, 2016.

(1) Lincoln TL, Korpman RA. Computers, health care, and medical information science. Science. 1980 Oct 17;210(4467):257-263.

2015 API Lifetime Achievement Award

Robert McGonnagle

The Association for Pathology Informatics presented its Lifetime Achievement Award for 2015 to Robert McGonnagle at the Pathology Informatics Summit 2015 meeting in May in Pittsburgh. The presenter was Dr. Ray Aller.

Mr. McGonnagle has been involved with the Publications Division of the College of American Pathologists publications since 1982, beginning as a freelance contractor. He is now Senior Director and Publisher of the College's CAP Today and Archives of Pathology and Laboratory Medicine. Bob recognized the critical role of informatics in pathology and medicine early in its evolution and solicited and published frequent, relevant articles in CAP Today. He has helped advance the field of pathology informatics by informing CAP Today readers about

new and evolving technology and about the role of the pathologist in developing and overseeing the technology.

Bob has also been a strong supporter and promoter of various pathology informatics conferences including the Lab InfoTech Summit and Advancing Practice, Instruction, & Innovation through Informatics (APIII). These two meetings were merged in 2010 as the API's "Pathology Informatics Summit" and Bob has continued his roles in this conference. He has for years served as a moderator for conference sessions and, most recently, has been serving as the moderator of the popular "Town Hall Summit" where emerging and hot-button topics are discussed.

LIS Functionality Toolkit (LIS-FAT): Description of the Project and Progress to Date

The germ of the idea to initiate the LIS Functionality Toolkit project was arrived at during and immediately after the Strategic Summit, a mini-conference presented by the API on June 8, 2012, in Pittsburgh. This event was planned to discuss the future of laboratory information systems (LISs) and pathology informatics in an era when electronic health records (EHRs) seemed to dominate the hospital IT landscape. The conference was generously underwritten by four healthcare software vendors, SCC Soft, Sunquest, McKesson, Cerner with additional contributions from ARUP Labs, General Data, Lifepoint Informatics, and PathCentral.

A key underlying assumption behind this idea was that optimizing LIS functionality was a key factor in the continuing success of these systems in the face of EHR competition. Such functionality was necessary to enhance the productivity and efficiency of pathology and the clinical labs as well as that of the health systems of which they were embedded. It should be noted that the large annual four-day API conference of the API that was held in May, 2014, was renamed the Pathology Informatics Strategic Summit and should not be confused with the small, invitation-only event held in June of 2012.

A Task Force was formed in the Summer of 2012 following the mini-conference composed of Bruce Friedman, Ulysses Balis, Mark Tuthill, and Andy Splitz. It was tasked with deciding what action the API needed to take to ensure the continuing success and high level of functionality of the LISs available in the commercial market. During its deliberations in the latter half of 2012 and 2013, the Task Force decided that its primary goal should be to develop a set of tools that could be used to assess the functionalities of any LIS in the market. This set of tools came to be known as the LIS Functionality Toolkit (LIS-FAT). Here is a description of the four components of the LIS-FAT as described in the narrative report that was the first component of LIS-FAT:

• A narrative report that provides information about how to search for a new LIS among the systems available in the market and develop a request for proposal (RFP) which is commonly used to manage system selection.

• A list of approximately 850 weighted functionality statements (FSs), some of which can be integrated into the RFP submitted to the competing LIS vendors as part of a system selection process. (Appendix I) Participating vendors are required to reference each of these FSs as to its availability in their LIS

• A list of suggestions for scripted scenarios derived from the functionality statements in Appendix I. These scenarios can be used to guide the competing vendors during the on-site live demo's that are part of the LIS purchasing cycle.

• Worksheet guidelines that can be used to calculate the total cost of ownership (TCO) of an LIS or compare TCOs across several LISs. Such calculations are important if it has been demonstrated that the LIS chosen for installation in a hospital lacks specific functionalities.

The public launch of LIS-FAT occurred on September 12, 2013, when Bruce Friedman introduced LIS-FAT in a plenary lecture that was one of the numerous API presentations in the ASCP annual conference in Chicago. Simultaneous with this lecture, the four components of LIS-FAT just described were posted on the API web site and made available at no charge for download by any interested individuals. Over the ensuing months, LIS-FAT has been warmly received by the pathology community and LIS vendors. Appendix I, the list of 850 functionality statements, has been downloaded about 4,000 times.

The LIS-FAT Task Force is currently working on a plan to determine the "next steps" for the LIS-FAT project. At the top of the list is the need to develop additional functionality statements in areas that were not given sufficient attention in the first edition such as lab outreach and molecular/genomic testing. Moreover, the Task Force has observed with interest that many LIS vendors have developed their own corporate responses to all of the functionality statements for review by current and potential customers. It is the sense of the Task Force that LIS-FAT seems to be attaining the status of a quasi-standard for LIS functionality. This response by LIS vendors is viewed as a very positive outcome to LIS-FAT in the sense that the LIS vendors are actively seeking to reach for the high standard for LIS functionality established by the documents. Additional future plans for LIS-FAT include a Task Force meeting at the ASCP annual conference in September in Tampa that will be also be open to all interested parties including vendor representatives. There will also be at least one LIS-FAT lecture at the Pathology Informatics Summit that will be held in May 4-8, 2015, in Pittsburgh.

LIS Toolkit Stats to Date:

	Toolkit Page	White Paper	Appendix I	Appendix II	Appendix III		PDF			%	Excel/Doc			%
							Appendix I	Appendix II	Appendix III		Appendix I	Appendix II	Appendix III	
09/19/2013-09/25/2013	258	106	145	103	89		90	68	57		55	35	32	
09/26/2013-10/12/2013	539	332	509	267	242		351	178	156		158	89	86	
10/13/2013-11/04/2013	445	208	411	244	193		225	108	84		186	136	109	
11/18/2013-12/19/2013	285	183	341	140	127		159	94	90		182	46	37	
12/19/2013-01/15/2014	213	106	184	123	89		118	73	53		66	50	36	
01/15/2014-03/02/2014	545	308	483	266	177		300	126	97		183	140	80	
03/02/2014-04/04/2014	252	308	429	243	157		304	146	103		125	97	54	
04/27/2014-05/25/2014	571	284	467	250	183		233	135	102		234	115	81	
05/25/2014-06/29/2014	753	344	539	236	250		341	154	157		198	82	93	
06/29/2014-08/22/2014	879	209	377	181	146		198	99	89		179	82	57	
08/22/2014-09/28/2014	375	150	246	133	94		133	85	55		113	48	39	
11/06/2014-01/07/2015	570	125	352	113	85		173	72	59		179	41	26	
01/07/2015-02/22/2015	574	210	640	153	115		363	68	59		277	85	56	
02/22/2015-05/06/2015	988	365	770	353	294		426	219	112		344	134	182	
06/07/2015-09/12/2015	1196	448	839	425	403		342	200	240		497	225	163	
	Toolkit Page	White Paper	Appendix I	Appendix II	Appendix III		PDF			%	Excel/Doc			%
Totals	8443	3686	6732	3230	2644		3756	1825	1513	56.27%	2976	1405	1131	43.73%

API and Sunquest Continue Partnership to Offer Free Webinars to API Members

The API-Sunquest Pathology Informatics Webinar Program is now entering into its third year as a close collaborative effort between the API and Sunquest Information Systems. The first two years were highly successful, attracting an average of more than 100 registrants per event. Members of the API Education Committee select the speakers and topics and Sunquest personnel provide technical support and assist in the marketing campaign for the series. API members and members of the Sunquest user group as the primary targets for marketing campaign but anyone can register for the free events.

The first event of this year was a lecture entitled *How Digital Pathology Will Change the Workflow of Surgical Pathology*. It was presented by Liron Pantanowitz of UMPC on September 22, 2015. This will be followed by two more lectures in subsequent months by Wally Henricks of Cleveland Clinic on EHR information exchange and by Bruce Levy, University of Illinois at Chicago, who will lecture on some of the details about pathology informatics fellowships. A total of eight or nine lectures are planned for 2015-2016. The series will culminate with the Pathology Informatics Summit on 23-26 May, 2016, with a set of real-time broadcasts from Pittsburgh, perhaps involving API faculty members who had participated in the webinar lecture series. The schedule for the entire webinar series will be released soon to API members. Sunquest is one of the major corporate underwriters of the PI Summit and the webinar series is an extension of that growing relationship.

API members can access previously recorded API-Sunquest Webinars on the API website after logging into their online account. The API-Sunquest webinars presented in FY15 were:

Using Pathology Informatics to Optimize Lab Efficiency and Quality in an Era of Healthcare Reform Date: Tuesday, September 9, 2014 at 1 PM EDT/10 AM PDT Presenter: Bruce A. Friedman, MD, Active Emeritus Professor of Pathology, University of Michigan Medical School and President, Pathology Education Consortium.

Computational Pathology:
IT Support for Basic Research in Pathology
Date: Wednesday, October 15, 2014, at 1 PM EDT/10 AM PDT
Presenter: Michael J. Becich, MD, PhD, Chairman and Professor of Biomedical Informatics and Pathology, University of Pittsburgh School of Medicine

Crossing Omic Chasm—Why Is It So Hard?
Date: Wednesday, December 11, 2014, at 1 PM EDT/10 AM PDT
Presenter: Justin Starren, MD, PhD, FACMI, Associate Professor of Preventive Medicine and Medical Social Sciences at the Northwestern University Feinberg School of Medicine

Deploying Analytic Software in Your Lab for Management Support
Date: Tuesday, January 13, 2015, at 12 PM EDT/9 AM PDT
Presenters: Dennis Winsten, MS, FHMIMSS, FCLMA, President, Dennis Winsten & Associated, Inc.
Hal Weiner, MBA, President, Weiner Consulting Services, LLC

10 Years of Direct Access Genetics: What Have We Learned?
Date: Thursday, February 19, 2015, at 12 PM EDT/9 AM PDT
Presenter: Jill Hagenkord, MD, FCAP, Chief Medical Officer of 23andMe

Digital Pathology Meets Surgical Pathology
Date: Thursday, March 5, 2015, at 1 PM EDT/10 AM PDT
Presenter: Stephen M. Hewitt, MD, PhD, FCAP, FASCP, Clinical Investigator in the Laboratory of Pathology, Center for Cancer Research, National Cancer Institute

API Budget *(FINAL June 30, 2015)*

REVENUE	EXPENSES	
Corporate Contributions (included in Travel Awards)	Accounting Fees $925	Supplies $1,598
Individual & Business Contributions $25	Professional Fees - Consulting $23,325	Postage, Mailing Service $5,351
Unrestricted Contributions $5003	Website Maintenance $7,750	Printing and Copying $16,055
Travel Awards $21,998	Business Expenses $2,856	Telephone, Telecommunications $2,243
Membership Dues $48,460	ASCP Management fee $13,000	Travel and Meetings $171,771
Books and Journals $9,855	Books, Subscriptions, Reference $7,677	Equipment Rental and Maintenance $1,926
Meeting Sponsorships $179,000	Insurance – Liability $1,429	Faculty Expenses $31,771
Program Income $97,750	Other Expenses $18,000	Travel Awards $18,050
TOTAL REVENUE $362,091	Credit Card Fees $1,696	***TOTAL EXPENSES $325,779***
	Service Fees $356	*NET REVENUE/(LOSS) $36,312*

Pathology Informatics Summit 2015 and the 2nd World Congress on Pathology Informatics May 5-8, 2015 | Pittsburgh, PA

The Pathology Informatics Summit 2015 (PI Summit) and 2nd World Congress on Pathology Informatics (WCPI) was held at the Wyndham Grand Downtown, Pittsburgh, PA May 5-8, 2015. The meeting was composed of three workshops, three parallel tracks of short lectures, punctuated by plenary lectures with WCPI designated sessions over the course of 4 days. In addition, this year we have 36 scientific posters and 46 short scientific oral presentations. Of the total of 54 oral presentations submitted, 8 have been promoted to a third track of formal podium presentations. This year, the PI Summit moved from electronic poster back to a paper poster format which was well-received. The API Council and PI Summit Planning Committee were pleased 18 travel awardees were able to attend the meeting thanks to contributions made by API individual members and partner organizations.

The field of pathology informatics continues to grow in scope not only in the U.S., but around the world, therefore both the PI Summit Planning Committee and the API Governing Council wanted to expand on the international arena of pathology informatics, as exemplified by the 1st World Congress on Pathology Informatics held in Brisbane, Australia in 2007, which was the impetus for showcasing the international pathology informatics achievements and issues, by including the 2nd World Congress on Pathology Informatics as part of the meeting.

The WCPI consisted of a dedicated plenary session on Wednesday May 5, 2015 which focused on Pathology in Proactive Healthcare and extensions of this theme and involvement of international speakers were also present in other lectures throughout the PI Summit. The HIMA workshop held on Tuesday May 4 featured a number of international participants, and throughout the Summit any topic sessions and plenary sessions related to international topics or by non U.S. resident speakers were designated as a WCPI session.

The WCPI plenary speakers brought different perspectives from around the world to look at how the laboratory and its informaticists could and should play their part in the new order. The following areas were explored:

- **Precision pathways –** information rich systems biology, new taxonomy, networks, models & complexity, 'omics & phenome-genome correlation

- **Personalization –** personal health record, personal pathways, pharmacogenomics, self-monitoring

- **Prediction –** statistical thinking, screening by questionnaire, dynamic modelling, big data analytics, knowledge banks & mining, openness, transparency & bias exposure, complex clinical decision support

- **Prevention –** population surveillance, bioindicators, app prescription, in-utero screening, early personalized intervention

- **Participation –** on-line patient communities, crowd discovery, collaborative guideline development – wikimedicine, shared decision making, internet search, digitization enabled democracy, information commons & co-opetition

- **Performance –** integrated measurement, peer feedback, quality systems, workflow embedded guidelines and care plans, pay-for-success contracting

The dates for both Pathology Informatics Summit meetings are already established:

PI-SUMMIT 2016, MAY 23-26, 2016

PI-SUMMIT 2017, MAY 22-25, 2017

Both held at the Wyndham Grand Pittsburgh Downtown, Pittsburgh, PA

PathologyInformatics.com

Pathology Informatics Essentials for Residents (PIER)

The API worked closely and collaboratively with the College of American Pathologists (CAP) and the Program Directors Section (PRODS) of the Association of Pathology Chairs (APC) to develop a pathology informatics instructional resource (PIER) which is available, free of charge, to all pathology residency programs. PIER is a research-based instructional resource developed by the APC, API and CAP that presents training topics, implementation strategies and resource options for PRODS and faculty to effectively provide informatics training to their residents and meet ACGME informatics milestone requirements.

Successful implementation of PIER is intended to help residency programs provide a sufficient pipeline of residents trained in pathology informatics knowledge and skills required now and in the future.

PIER Release 1 began its one-year alpha testing phase by residency programs in November 2014. It provides (1) up-to-date and validated pathology informatics knowledge and skill set objectives; (2) flexible delivery options that can be adapted by program size, needs and level of faculty expertise; and (3) topic organizers, objectives, milestone levels, rotation planning, practical clinical applications, and existing learning resource options. PIER provides a framework for residency programs to provide informatics training to their residents. The content and implementation strategies are closely aligned with the ACGME "Milestones" requirements. Representative alpha test residency programs collaborated in the optimization of the instructional materials beginning in November, 2014. The work group which developed the materials will provide updates and supplementation.

View PIER online at **APCprods.org/PIER**

API at ASCP 2014 in Tampa

API sponsored over twenty hours of informatics content at the 2014 ASCP meeting in Tampa. This was the second year in which API has formally worked with ASCP to provide select informatics topics for the ASCP's annual meeting. In addition to the informatics topics that were delivered as lectures, sessions were also presented in a round table forum which allowed more focused attention to topics of interest for meeting participants. API's president, Dr. Rodney Schmidt, presented API's 2014 informatics "Lifetime Achievement Award" to Dr. Thomas L. Lincoln, MD, Emeritus Professor in the Department of Pathology at the University of Southern California. This award is given annually to an informaticist who has made outstanding career contributions to the field of pathology informatics. API also hosted a membership/business meeting, open to the public at the meeting.

API at ASCP 2015 in Long Beach

API provided 21 hours of informatics content at the 2015 ASCP meeting in Long Beach. This marked the third year the API's partnership with the ASCP to sponsor select informatics topics for the ASCP's annual meeting. The API again provided round table forums to permit more concentrated focus on topics of interest for meeting participants along with the speaker lectures during the course of the meeting. API held an open/public membership/business meeting at the meeting.

University of Pathology Informatics: API – ASCP Education Initiative

The API in conjunction with the ASCP launched the University of Pathology Informatics initiative to spearhead the development of targeted informatics education resources applicable to the lab community, specifically to train the community on critical informatics topics as it applies the practice of pathology and laboratory medicine. The leadership committee, headed by Dr. Michael Riben, kicked off activities in March, 2014 and had a Face-to-Face meeting at the Pathology Informatics in May. The leadership committee is working to design, develop and deploy a certificate program that addresses pathology informatics competencies, skills and knowledge for physicians, laboratory professionals, administrators, and trainees. Our current activities have focused on (1) performing a gap analysis survey to identify educational needs of the community, (2) prioritizing and recommending content programs based on this gap analysis, and (3) organizing and coordinating subgroups that are developing content. The survey was launched in September, 2015 to the laboratory community and hope to obtain feedback from interested parties to help shape and direct the content of the program. The program launch date is planned for March-May, 2016.

Associate API Membership for Trainees available through the Peter J. Becich Fund

Peter J. Becich

The Peter J. Becich Educational Grant was established in 2003 by API's first President, Michael J. Becich, MD, PhD, in honor of his father, Peter J. Becich.

The purpose of the grant is to offer a full membership rebate to Associate members (individuals in training, including students, residents and fellows). Since its inception, over 300 Annual Associate memberships have been funded by the Becich Grant.

API to Sponsor Awards at USCAP 2016

The API is pleased to announce that it will again be sponsoring two Association for Pathology Informatics President's Pathologist-In-Training Awards at the 2016 USCAP Companion Meeting:

- Award for Best Poster at $300
- Award for Best Platform at $300

API Distinguished Service Award 2015: Barbara Karnbauer
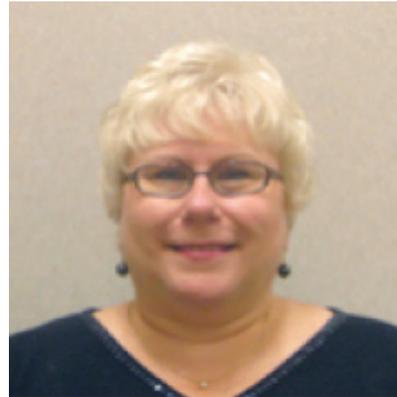
Barbara Karnbauer

The Association for Pathology Informatics presented its Distinguished Service Award for 2015 to Barbara Karnbauer at the Pathology Informatics Summit 2015 meeting in May in Pittsburgh. The presenters were Drs. Rodney Schmidt, Mark Tuthill, and Bruce Friedman.

This award recognized the outstanding contributions and tireless efforts in the planning, coordination, and execution of national and international Pathology Informatics meetings sponsored by API during the past 18 years. She truly was the "glue" that allowed for successful meetings during this long time frame. She served as a key member of the Conference staff between 1996 and 2014 and became Senior Course Director in 2008. Barb "retired" from her Course Director position after our 2014 meeting but continues to play a critical advisory and "institutional memory" role for the meeting.

Photo Source: http://www.dbmi.pitt.edu/person/barbara-karnbauer

May 22–25, 2017

PathologyInformatics.com

Association for
Pathology Informatics
The Offices at Baum, Fifth Floor
5607 Baum Boulevard
Pittsburgh, PA 15206-3701

Telephone: 412-648-9552
Fax: 412-648-9194

PathologyInformatics.org