What is the API?

**Brief History**

- The Association for Pathology Informatics (API) was founded in 2000 by a group of pathologists interested in defining pathology informatics as a clinical subspecialty within pathology by way of education. API continues to support this educational mission by:
  - Sponsoring a national educational meeting
  - Providing educational content to other Pathology meetings (e.g. United States & Canadian Academy of Pathology annual meeting),
  - Developing and educating members about standards for reporting, transferring, storing and merging pathology related information,
  - Developing an independent, not-for-profit, open access peer-reviewed electronic academic journal, **Journal of Pathology Informatics** (JPI), which published the first quarterly edition in March, 2010. JPI is available for viewing at [http://jpathinformatics.org](http://jpathinformatics.org). JPI is indexed in PubMed.
  - Promoting education of residents and practicing pathologists in informatics and technology that enhances the field of laboratory medicine.

**What We Do:**

- Pathology Informatics involves collecting, examining, reporting, and storing large complex sets of data derived from tests performed in clinical laboratories, anatomic pathology laboratories, or research laboratories in order to improve patient care and enhance our understanding of disease-related processes.
- Pathology Informaticists seek to continuously improve existing laboratory information technology and enhance the value of existing laboratory test data, and develop computational algorithms and models aimed at deriving clinical value from new data sources.
- Resident and fellowship training is a key focus for the API
  - The API website lists key fellowship training program in pathology informatics
  - API members have been engaged since 2013 by the American Board of Pathology (ABP) to work with the American Board of Preventive Medicine (ABPM) to develop a clinical informatics board exam that is co-sponsored by ABP and ABPM
  - This examination has led to the formal certification of clinical informaticists
Journal of Pathology Informatics

• JPI is with Wolters Kluwer Health | Medknow
• JPI started in March 2010 – We’re still around!
• We’re continuing to grow
• Our open access model is still working well
• JPI is now a common vehicle for many symposia
• Indexed in Pubmed since 2010

Social Media

Submit Your Manuscript Today to the Official Journal of the Association for Pathology Informatics
Editors-in-Chief: Liron Pantanowitz, M.D. & Anil V Parwani, M.D., Ph.D. MBA
Visit http://www.jpathinformatics.org/
and click on “Submission”
Cost of Publication: FREE for API Members
Turnaround: RAPID time to publication

Transformation of Pathology

• Life science industry is now witnessing the second decade of “Biologic Revolution”.
• Rapid Advances in Technology.
• Personalized Medicine
• Era of Genomics- Big Data
• Pathology is witnessing an exponential growth in terms of tools and information.

Current Cancer Diagnosis Landscape

• 2030 Estimated 22M new cancer diagnoses
• Pathologists qualitatively review each cancer case
  • Requires a more efficient throughput system
  • Increased ability to communicate inside and outside the institution
• Cancer care becoming more complex
  • Promoting multidisciplinary collaboration
  • Pathology, Medical Oncology, Radiation Oncology
• Pathology central hub for genomics
  • Maximizing research collaboration
  • Development of targeted therapies
The March Towards Precision Medicine: Value Of Pathology Informatics In Creation Of Pixel And Genome Pipelines To Enhance The Diagnostic Process

Bruce Levy, M.D., C.P.E.
Associate Chief Health Informatics Officer
Program Director, Clinical Informatics Fellowship
Geisinger Health System

Re-Imagining the Microscope to Facilitate Collaboration and Integration of Big Data in Medicine
Design and implementation of vendor neutral whole-slide imaging app within the open-source collaborative Scalable Adaptive Graphics Environment (SAGE)

Demonstration of the app’s value in a variety of scenarios covering the areas of patient care, medical education and medical research

Recognition that a big data capable, web-based app with a streamlined user interface can enhance collaboration in medicine


Define big data and its relationship to health care in the 21st century

Describe the drive for collaboration in medicine and how the Scalable Adaptive Graphics Environment (SAGE) can meet that need

Explore the case scenarios for utilizing SAGE to share big data, including whole-slide images

Future of data visualization

Creation of a Pixel Pipeline and The Need for Image Analysis To Improve Workflow and Increase Adoption of Digital Pathology for Clinical Use

Andrew J. Evans MD PhD FRCP FCAP
Staff Pathologist and Director of Telepathology
University Health Network, Toronto General Hospital
Toronto, ON, CANADA

Use of whole-slide imaging telepathology for clinical purposes including frozen sections, consultation and primary diagnosis in a major academic institution over the past 11 years

Factors influencing the adoption of this technology by pathologists in subspecialty practice in a large academic department


How image analysis would benefit a department in which WSI has been used for diagnostic work since 2006

Outline

Nuts & Bolts of Informatics Infrastructure for Clinical Next Generation Sequencing (NGS)

Somak Roy, MD
Director Molecular Informatics & Genetics Services
Molecular & Genomic Pathology
Department of Pathology
UPMC, Pittsburgh, PA
roys@upmc.edu
Presentación títulada: Diseño e implementación de infraestructura para NGS de datos de genómica

Académicas logros

Academia logros