

CAP TODAY

WHERE THE WORLD OF THE CLINICAL LABORATORY COMES TOGETHER

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Webinar
Determining copy number in inherited disorders by MLPA and copy number electrophoresis
November 19, 2025, 10:00 AM EST

Host response solutions to sepsis risk prediction

When emergency physician Chadd Kraus, DO, DrPH, of Lehigh Valley Health Network in Allentown, Pa., sees a patient who could have sepsis, he wants to know if there's an infection and, if so, how bad it is based on the patient's host response, what interventions are needed, and whether the patient will need to be hospitalized. Not as pressing for him? "What's the pathogen?"

Use of whole genome sequencing in diagnosing rare genetic diseases

Large gene panels and exome sequencing are routinely performed in clinical practice to identify the pathogenic variants that cause inherited diseases. In many cases, these assays can identify the causal variants and provide a diagnosis. However, clinical exome sequencing, which examines the protein-coding region of every gene, only interrogates two percent of the genome, so some causal variants may elude detection.

A trio of magic potions to protect laboratories

A "grimoire" for laboratories—that's what J. Mark Tuthill, MD, of Henry Ford Health was asked to talk about at the Pathology Informatics Summit in May. Once he learned what the term meant, he got to work, and his book of magic for laboratories unfolded. He did not use a large language model to create his spells because "only a wizard" can teach such things, he said, which is why he consulted his 11-year-old grandson.

Neurological Autoimmunity

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From the President's Desk
AI in pathology: excitement vs. fear

The use of artificial intelligence in medicine is spreading rapidly, but it's not entirely new. Tools that incorporate AI have been approved by the FDA since the mid-1990s, mostly for use in radiology and cardiology. Like all of our colleagues in medicine, we pathologists have been hearing a lot about AI lately. Some of us are excited about it, and most of us are familiar with the surge of hype claiming that AI will change everything about how we practice.

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Labcorp introduces AI-based laboratory test search tool
 Labcorp recently launched Test Finder, a generative artificial intelligence tool that it developed in conjunction with Amazon Web Services. The tool, available on www.labcorp.com, is designed to simplify lab test selection by enabling health care providers to ask questions or describe ...

At AMP, latest on self-collection, avian influenza, and more

Avian influenza, self-collection, and diagnostic stewardship in the microbiology laboratory are three topics of many that can be explored at the Association for Molecular Pathology meeting in Boston this November. Andrew Pekosz, PhD, heads a research laboratory at Johns Hopkins University that studies the replication and disease potential of emerging respiratory viruses. In "Emerging public health threats: avian influenza A(H5N1) and the return of vaccine-preventable diseases," Dr. Pekosz, professor in the Department of Molecular Microbiology and Immunology, will share his findings about highly pathogenic avian influenza and encourage vigilance as flu season approaches.

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Molecular autopsy to determine cause of sudden cardiac death

When someone dies suddenly and unexpectedly, a forensic autopsy is often performed to identify the manner and cause of death. However, up to 30 percent of autopsies fail to identify any underlying anatomic or toxicologic etiologies, and the autopsy classification may be sudden unexplained death. This is particularly concerning in young

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