

# Digital Pathology Course

**APRIL 5, 2024**

Rockefeller Research Laboratories  
430 East 67<sup>th</sup> Street, New York, NY

Includes a complimentary guided tour of  
the pathology laboratory areas at MSK



Memorial Sloan Kettering  
Cancer Center

# Overview

In recent years, **digital pathology is emerging as a potential new standard of care** with scanning, reviewing, and storing of pathology slides in a digital format. **Digital workflows have demonstrated patient care benefits** including: reliable fast retrieval of digital images; the ability to digitally review pathology slides and enable remote work and telepathology; the use of computational aided tools; and the sharing of digital images for consultations and educational purposes.

**Memorial Sloan Kettering (MSK) has been an early adopter of digital pathology systems since 2006 and has scanned over 7 million slides on various scanner models to date.** The lessons learned at MSK can be used by other institutions that are interested in advancing their digital pathology adoption. The MSK Department of Pathology and Laboratory Medicine is pleased to present this annual in-person course, dedicated to sharing our digital pathology experience with all attendees.

Course participants will **engage in lectures by MSK faculty, have the opportunity to tour the digital pathology operations, and participate in a panel discussion** with course faculty and staff. The lectures will concentrate on practical aspects of digital pathology operations, including the infrastructure and ecosystem required, the digital pathology validation process, regulatory aspects of digital pathology, the implementation of A.I.-based tools, and the financial aspects of running a digital pathology operation. Participants will have the opportunity to learn of new advances and to interact with other pathologists and researchers who are interested in advancing digital pathology in their institutions.

# Digital Pathology Tour at MSK: Operations, Hardware, and Software

We invite participants to register for a **complimentary guided tour of the pathology laboratory areas at MSK**. The guided tour, which will be held immediately following the lectures from 3:30-5:00 pm, will allow participants to view scanning hardware and the different workflows of digital pathology operations at MSK.

This tour is available to external (non-MSK) registrants only and is **limited to the first 60 registrants** so we do encourage early registration. CME credit(s) will not be offered for the tour.

## Who Should Attend

The target audience for this course includes pathologists and researchers who are interested in learning about operating digital pathology operations at scale and in the clinical implementation of digital pathology and AI tools.

This course is set to be an **exclusively in-person event** at Memorial Sloan Kettering's Rockefeller Research Laboratories (a virtual option is not available).

## Online Syllabus

Attendees will receive access to an online syllabus after the conclusion of the overall course, which includes select PDFs of presentations (slides) of the lectures.

This course is approved for **AMA PRA Category 1 Credits™**  
and **5.25 Lifelong Learning (CME) credit**.



The **Warren Alpert Center for Digital and Computational Pathology at Memorial Sloan Kettering** was established in 2017 as an innovation center to facilitate novel research and development in digital pathology and algorithmic computational pathology for clinical cancer care and research.

The overarching goal of The Warren Alpert Center is to lead the way in transforming pathology from a subjective, qualitative discipline to an objective, quantitative one, pioneering computer-augmented cancer diagnosis and building artificial intelligence (AI) analytics for pathology.

The technology will further enrich our knowledge of disease by providing opportunities and integrating computational data from pathology slides with other specimen-related data (genomics, proteomics, radiographic imaging, etc.) to bring an unprecedented breadth and depth of information to each individual case, yielding a comprehensive, multidimensional analysis that would otherwise be impossible.

## MSK Course Directors



### **ORLY ARDON, PHD, MBA**

Director, Digital Pathology Operations  
Assistant Member, Department of Pathology and  
Laboratory Medicine



### **MEERA R. HAMEED, MD**

Chief, Surgical Pathology Service  
Department of Pathology and Laboratory Medicine



### **MATTHEW G. HANNA, MD**

Director, Digital Pathology Informatics  
Assistant Attending, Department of Pathology and  
Laboratory Medicine

### **MITIGATION OF RELEVANT FINANCIAL RELATIONSHIPS**

Memorial Sloan Kettering Cancer Center adheres to the ACCME's Standards for Integrity and Independence in Accredited Continuing Education. Any individuals in a position to control the content of a CE activity, including faculty, planners, reviewers, or others are required to disclose all financial relationships with ineligible companies (commercial interests). All relevant financial relationships have been mitigated prior to the commencement of the activity.

## MSK Course Faculty

### **KOJO S.J. ELENITOBA-JOHNSON, MD**

Chair, Department of Pathology and Laboratory Medicine  
James Ewing Alumni Chair of Pathology

### **LUKE GENESLAW, MS**

Senior Product Manager,  
Department of DigITs

### **GREGORY GOLDFOF, MD, PHD, MS**

Director, Artificial Intelligence, Hematopathology Service  
Assistant Attending, Department of Pathology and  
Laboratory Medicine

### **BRIE KEZLARIAN, MD**

Assistant Attending, Department of Pathology and  
Laboratory Medicine

### **SAAD NADEEM, PHD**

Assistant Attending Computer Scientist,  
Department of Medical Physics

### **VICTOR E. REUTER, MD**

Vice Chairman Attending, Department of Pathology and  
Laboratory Medicine  
Director, Genitourinary Pathology  
Director, Genitourinary Pathology Fellowship

### **CHAD VANDERBILT, MD**

Assistant Attending, Department of Pathology and  
Laboratory Medicine



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# Schedule

FRIDAY, APRIL 5, 2024 • 8:00 AM — 5:00 PM

- 8:00 AM Registration and Continental Breakfast
- 9:00 AM **Course Welcome and Introduction**  
Orly Ardon, PhD, MBA  
Matthew G. Hanna, MD
- 9:05 AM **Opening Remarks**  
Kojo S.J. Elenitoba-Johnson, MD  
Victor E. Reuter, MD
- 9:15 AM **MSK Digital Pathology History**  
Meera R. Hameed, MD
- 9:45 AM **Digital Pathology 101**  
Matthew G. Hanna, MD
- 10:45 AM Break and Refreshments
- 11:00 AM **Digital Tools**  
Luke Geneslaw, MS
- 11:30 AM **Computational Models in Pathology**  
Chad Vanderbilt, MD
- 12:00 PM **Development and Validation of DeepLIIF**  
Saad Nadeem, PhD
- 12:30 PM Lunch Break
- 1:30 PM **Digital Pathology in Cytology**  
Brie Kezlarian, MD
- 2:00 PM **AI in Hematopathology**  
Gregory Goldgof, MD, PhD, MS
- 2:30 PM **The Dollars and Sense of Running Digital Pathology**  
Orly Ardon, PhD, MBA
- 3:00 PM **Panel Discussion**
- 3:30 PM **Networking Reception and Digital Pathology Lab Tours**  
Course attendees are invited to a networking reception at Rockefeller Research Laboratories. Hors d'oeuvre and refreshments will be served. Please RSVP during course registration.  
  
Guided tours of the MSK pathology laboratory areas will be held throughout the networking reception to attendees who have pre-registered for the tour.
- 5:00 PM Adjournment

# Objectives

At the conclusion of this course, learners will be able to:

- Describe digital pathology history and integration in pathology practice
- Explain the validation process required for clinical grade digital pathology
- Discuss the regulatory aspects of digital pathology
- Survey the digital pathology laboratory facilities and view digital tools used in the digital workflows
- Recognize the financial cost of digital pathology implementation

## Accreditation

Memorial Sloan Kettering Cancer Center is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

### AMA Credit Designation Statement

Memorial Sloan Kettering Cancer Center designates this live activity for a maximum of **5.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### ABPath CC Recognition Statement

This activity will offer **5.25 Lifelong Learning (CME) credit** towards the American Board of Pathology's Continuing Certification program.





For details and registration, visit:  
**[msk.org/DigitalPathology2024](https://msk.org/DigitalPathology2024)**

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### Registration Fees

<b>Healthcare Providers</b>	<b>\$300</b>
<b>Industry Professionals*</b>	<b>\$525</b>
<b>MSK Employees</b>	<b>Complimentary</b>

**MSK Alumni and MSK Cancer Alliance Members:** A discounted registration rate is offered to MSK Alumni and MSK Cancer Alliance members for all CME programs at MSK.

**\*Industry professionals** may attend MSK CME activities for their own education. Marketing, sales, and promotion of products and services is strictly prohibited at MSK CME activities.

### Cancellation Policy

If you wish to cancel your participation in this course, you must email [cme@mskcc.org](mailto:cme@mskcc.org) at least seven (7) days prior to the start of the course, and your refund will be subject to a \$25 administrative fee. Cancellations or no-shows within seven (7) days of the course are not eligible for a refund. Please note that if it has been more than 120 days since payment was processed, a W9 form must be submitted in order process your refund and your refund will be issued in the form of a check payment. Refunds are not subject to tax. You may substitute another registrant in your place at any time by contacting [cme@mskcc.org](mailto:cme@mskcc.org) with the appropriate information.

MSK CME reserves the right to cancel or postpone any course due to unforeseen circumstances. In the unlikely event we must cancel or postpone this course, you will be notified via email from MSK CME ([cme@mskcc.org](mailto:cme@mskcc.org)). A full refund will be issued for your registration. MSK CME is not responsible for any related costs, charges, or expenses to participants, including fees incurred by airline/travel/lodging agencies.



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