



# Illinois Society for Histotechnologists 2020 Annual Spring Symposium

*Magnify the Knowledge*



**May 14 & 15, 2020**

The Chateau Hotel & Conference Center

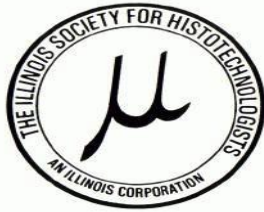
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**Welcome!** The Illinois Society for Histotechnologists (ISH) invites you to experience and celebrate the **51<sup>th</sup> Annual State Symposium** and vendor show on **May 14<sup>th</sup> & 15<sup>th</sup>** at The Chateau Hotel & Conference Center in Bloomington, Illinois. We are offering 2 days of CEU-approved lectures and workshops on a variety of topics.

### Call to **Reserve your room by May 1st**

Our group rate: \$95.00 (+12% tax)

mention our group: Illinois Society for Histotechnologists

Reserve by calling:

309-665-5671 (M-F 7am-3pm)

309-662-2020 (24hrs)

Check-in time is 3:00 pm; checkout time is 12:00pm.

### **Hotel Amenities:**

The Chateau Hotel offers a complimentary breakfast, fitness center with an indoor pool, whirlpool, & sauna. Free Parking & WIFI for hotel guests.

An outdoor mall with shopping and dining is within walking distance from the hotel.

# 2020 Educational Program

**Thursday, May 14**

**Morning Lectures 8:00am-12:00pm**

**7:00–8:00am Registration** *Coffee/ beverage/snacks provided*

8:00-8:15	President's Welcome	Ray Ortiz
8:15-9:15	Skin Grossing in Histology Laboratory (L1)	Izak Dimenstein
9:15-10:15	Mass Spectrometry Immunohistochemistry (L2) (MSIHC): A hybrid technique for the next generation	Athi Kannan

**10:15-11:00 Vendor Break**

11:00-12:00	Histo Tats & Toos (L3)	Lamar Jones
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**12:00-1:00 Awards Luncheon**

**Afternoon Workshops 1:00-4:45 pm**  
**Break with vendors 2:30-3:15**

#1A	Building Histo Blocks	[1.5hr]	1-2:30pm	Julie Trejo
#1B	Oh the Answers You Will Find in Your SDS's!	[1.5hr]	1-2:30pm	Ada Feldman
#2A	Grossing Technology Perspective and Prospective	[1.5hr]	3:15-4:45pm	Izak Dimenstein
#2B	Dominating the Diagnosis- The Utility of Antibody Panels	[1.5hr]	3:15-4:45pm	Jacob Wilson

**Wine and Cheese Reception and Vendor Auction!!!**  
**5-7 pm Thursday \***

## Friday, May 15

**Morning Workshops 8:00 – 11:30 am**  
**Last Break with vendors 9:30-10:00 am**

**7:00 – 8:00am Registration** *Coffee/ beverages/snacks provided*

#3A	The H&E Stain: Infinity & Beyond [1.5hr]	8-9:30am	Heather Renko-Breed
#3B	Looking for Targets [1.5hr]	10-11:30am	Bob Meyer
#4	It's a Small World [3.0hr]	8-11:30am	Lamar Jones

**Lunch 11:30 –12:30 pm**

**Afternoon Workshops 12:30 – 3:45 pm**  
**Break from 2:00-2:15 pm**

#5A	Special Stains: Success & Safety [1.5hr]	12:30-2:00pm	Maureen Doran
#5B	Exploring PD-L1 Testing in TNBC [1.5hr]	12:30-2:00pm	Lori Bellafiore
#6	Fine Tuning Histo [1.5hr]	2:15-3:45pm	Julie Trejo

### **\*Vendor Auction/ Wine & Cheese Reception**

Suppliers of Histology products will show the latest in instrumentation and supplies. Exhibits will be open on Thursday and Friday during morning & afternoon breaks. Attendees can collect vendor bucks while visiting the exhibits on Thursday. This “vendor money” can be used to bid on fantastic gifts on Thursday from 5-7pm at the annual Vendor Auction/ Wine & Cheese reception. Also, take a moment to thank our suppliers for their support. Without them we could not provide these educational opportunities. **Everyone** is welcome to attend the vendor auction and visit the exhibit area.

# LECTURE ABSTRACTS

## **L-1 Skin Grossing in Histology Laboratory**

Izak Dimenstein MD, PhD, HT(ASCP)  
Loyola University Chicago Medical Center (ret)

This workshop discusses skin grossing techniques, as part of grossing technology. The goal is to present the skin section on the microscope slide as an organ. There is no other example in histology where a grossing biopsy technique is such an important prerequisite to ensuring the quality of pathology diagnosis. In dermatopathology, the constant focus on both clinical diagnosis and the orientation of the sample also serves as quality assurance. Embedding orientation rationale for microtomy of an excisional biopsy sample will be discussed. Besides the common skin specimens (shave, punch, and excision biopsies), some special grossing situations require additional attention, like in alopecia or if the skin specimen is sent after Mohs cryosurgery to histology laboratory. Biopsy specimen for immunofluorescence tests in bullous dermatoses needs a special discussion.

## **L-2 Mass spectrometry Immunohistochemistry (MSIHC): A hybrid technique for the next generation**

Athi Kannan MS, PhD, HTL(ASCP)  
University of Illinois, Champaign

First ever interaction between an antigen and its antibody and its visualization as a technique dates back to the 1940's. This immunohistochemical technique provides information about the spatial distribution and expression of proteins in tissue samples. This fundamental approach allowed researchers to develop methodologies to study multiple proteins and its relationship between various cell types in a tissue simultaneously. Information provided by this multiplex staining method enabled researchers, clinicians and drug developers to analyze the tissue microenvironment efficiently and assist them to design personalized medication and therapy. To target this potential, many simultaneous highly multiplexed staining methods and platforms have been developed commercially. Many of these conventional multiplex methodologies rely on fluorescent tags and unfortunately considerable overlap between various fluorophore emission is one of the important shortcomings. To circumvent this issue, scientists developed a newer approach suitable for application on formalin-fixed, paraffin embedded tissue samples. Their approach involves utilizing a special group of metal ions in the periodical table called Lanthanides, ranging from Lanthanum to Lutetium. Lanthanide metal ion tagged antibodies are used in the MSIHC technique, which are released and detected by Multiplex Ion Beam Imaging (MIBI) or by Cytometry Time of Flight (CyTOF) and analyzed. In this presentation, details of MSIHC technique will be discussed in a simplified manner without overpowering with scientific details. Advantages of this technique will be brought out by using specific examples.

### **L-3 Histo Tat and Toos**

M. Lamar Jones BS, HT/HTL(ASCP)

This lecture will teach the participate the history, origin, application, identification of tattoos. The use of the dyes utilized, histological application and the removal of tattoos will also be discussed.

## **WORKSHOP ABSTRACTS**

### **#1A Building Histo Blocks [1.5hr]**

Julie Trejo BS, HT(ASCP)cm

Without a solid foundation, you'll have trouble creating anything of value...erikaoppenheimer.com  
Embedding specimen blocks are basic yet CRUCIAL. Proper specimen orientation, no issues, and proper support = additional tests and/or diagnosis. Incorrect orientation, failing issues and lack of support can either ruin the tissue or create more delays. This workshop will show how to investigate the issues and prove how to make it easier and more efficient for the laboratory, diagnosis and the patient.

### **#1B Oh the Answers You Will Find In Your SDS! [1.5hr]**

Ada T. Feldman MS, HT/HTL(ASCP) <sup>CM</sup>  
Anatech Ltd

The lab has received buffer from a new supplier. You expected a colorless solution but it is light yellow. Do you send it back? You want to ship supplies to another lab. Does it need special packaging? A chemical is not stamped with an expiration date. How do you know if it is still good to use? The SDS has these answers plus more. Come get a new understanding of this document that we just file away and make it your go-to reference for answering challenging lab questions.

### **#2A Grossing Technology Perspective and Prospective**

Izak Dimenstein MD, PhD, HT(ASCP)  
Loyola University Chicago Medical Center (ret)

Current changes in the surgical pathology histology laboratory require a different approach to grossing technology, which is not limited to grossing techniques. Grossing technology encompasses surgical pathology laboratory procedures from the specimen receipt until the samples are loaded into the microwave-assisted tissue processing instruments with sampling as the main part in-between. Grossing technology includes the specimen triage by preservation,

priority of processing, details of sampling, workflow management, and the subsequent embedding follow-up. This workshop highlights the current challenges in grossing technology and possible future developments. From a practical perspective, interaction of grossing technology and digital pathology is one of the immediate challenges. Grossing technology can contribute to the microscope slide quality by standardization of the pre-analytical stage of processing. Standardization of the sample's thickness and embedding orientation are gradually solving problems in laboratory practice. The embedding automation implementation is the next challenge in the histology laboratory practice.

## **#2B Dominating the Diagnosis – The Utility of Antibody Panels [1.5hr]**

Jacob Wilson BS  
MilliporeSigma-Cell Marque

How can we use antibody panels to help diagnose specific tumor types? Diagnostic algorithms are an important tool the pathologist will use, not only to diagnose specific tumors, but also to exclude certain conditions from the diagnosis. In this workshop, we will look at staining characteristics, unique applications and the diagnostic advantages of certain antibodies. We will also explore novel diagnostic markers that may be new to the audience. Understanding how these panels are developed and why certain antibodies are included is important for understanding the role of immunohistochemistry in the field of pathology. This workshop is designed to familiarize the audience with novel and routine antibodies and their applications. In addition, it will underline the importance of diagnostic panels to pathologists, so together, we can dominate the diagnosis.

## **#3A The H&E Stain: Infinity & Beyond [1.5hr]**

Heather Renko-Breed BS, HT(ASCP)QIHC  
Leica Biosystems

A Look at the science, utility of regents, principles and guidelines for Hematoxylin and Eosin stains. To have an understanding of the Histotechnicians role in helping to determine what is a good H&E stain and how to manage your H&E stain within the clinical pathology laboratory. You will gain an understanding of the fundamental regents used for H&E Staining and techniques to troubleshoot in your laboratory. Principles of overall H&E protocols and trending options in the marketplace will be explored. Various recommendations from College of American Pathology guidelines will be discussed and what it takes to meet these guidelines with today's growing workload

## **#3B Looking at Targets [1.5hr]**

Bob Meyer HTL(ASCP)QIHC  
Agilent Technologies Company

Prior to the late 1990's, nearly all chemotherapy targeted cells in the process of DNA replication with the hopes of damaging the tumor tissue at a faster rate than normal tissue.

There has been an evolution in the standard of care. New FDA-approved therapies utilize signal transduction pathways, apoptosis, and immune therapy among other mechanisms to target tumor tissue and minimize damage to normal tissue. Targeted diagnostics test the patient's protein or gene profile to identify subpopulations which will and will not respond to specific therapies. These diagnostics are regulated by the FDA and assay development is conducted using clinical trials

#### **#4 It's a Small World [3.0hr]**

M. Lamar Jones BS, HT/HTL(ASCP)

This workshop has a pre and post test on fungi and microorganisms. The lecture will teach the participant to recognize and identify types of fungi and other microorganisms. The H and E and other special stains will be utilized to demonstrate and identify the organisms.

#### **#5A Special Stains: Safety & Success [1.5hr]**

Maureen Doran MS, HTL(ASCP)  
Saffron Scientific Histology Service

In this workshop we will examine special stain procedures and factors involved in assuring stain quality. We will discuss evaluation criteria and troubleshooting for popular carbohydrate and connective tissue stains. We will review staining protocols for microorganisms and tissue pigments and assess tips for optimization. This workshop will also cover the proper handling and disposal of reagents used in these special stains.

#### **#5B Exploring PD-L1 Testing in TNBC [1.5 hr – NO CEUs]**

Lori Ann Bellafiore HT(ASCP) QIHC Genentech

Testing for immune checkpoint inhibitors is a very complicated and crowded space. There are many different clones, on a couple different platforms, which all have different scoring criteria, depending on the disease state and which therapy is to be employed if positive. This talk will briefly touch on all of those variables but will focus in detail on PD-L1 testing for metastatic triple negative breast cancer.

#### **#6 Fine Tuning Histo [1.5]**

Julie Trejo BS, HT(ASCP)cm

Elevate your histology techniques into higher quality and making it more efficient. There are tips in every step in Histology from embedding to coverslipping including Special Stains and IHC. You may have to take an extra minute or so in the beginning but it will end up saving you hours of time and hassle. Take your time and Fine Tune Histology.



## **Illinois Society for Histotechnologists 2020 Symposium Registration**

***Please register by Monday, May 1, 2020 to avoid \$50 late fee***

You may register online at <http://illinoishistologysociety.org/>

OR

**Complete the registration form on the next page for individual participation and return with check payable to:**

**Illinois Society for Histotechnologists  
c/o Lori Bellafiore, Registrar  
588 B CR 2400 N  
Dewey, IL 61840**

***Questions? Contact the registrar, Lori Bellafiore:  
217-202-3820***

***Labellafiore@yahoo.com***

**Contact registrar for information regarding:**

Discounts for students enrolled in a histology school/training program  
or

Institutional pass for 2 or more attending ½ day or less from same institute

## 2020 Illinois Society for Histotechnologists Symposium Registration Form

Registration fee (non-refundable) \$45 \_\_\_\_\_  
*Includes \$20 ISH Membership (2020-21)*  
 Late registration Fee if after May 8 Late Fee \$50 \_\_\_\_\_

### Thursday, May 14

L(1-3) **Morning Lecture Session** [3.0 hrs] \$45 \_\_\_\_\_

#### Afternoon Workshops

**1:00-2:30pm-Choose 1**

#1A Building Histo Blocks [1.5hr] \$22.<sup>50</sup> \_\_\_\_\_

#1B Oh the Answers You Will Find [1.5hr]  
 In Your SDS! \$22.<sup>50</sup> \_\_\_\_\_

**3:115-4:45pm-Choose 1**

#2A Grossing Technology Perspective [1.5hr]  
 and Prospective \$22.<sup>50</sup> \_\_\_\_\_

#2B The Utility of Antibody Panels[1.5hr] \$22.<sup>50</sup> \_\_\_\_\_

### Friday, May 15

#### Morning Workshops [choose max. 3hrs]

**8:00-9:30am**

#3A The H&E Stain:Infinity & Beyond [1.5hr] \$22.<sup>50</sup> \_\_\_\_\_

**10:00-11:30am**

#3B Looking for Targets [1.5hr] \$22.<sup>50</sup> \_\_\_\_\_

**8:30-11:30am**

#4 It's a Small World [3.0hr] \$45 \_\_\_\_\_

#### Afternoon Workshops

#5A Special Stains: Success & Safety [1.5hr] \$22.<sup>50</sup> \_\_\_\_\_

#5B Exploring PD-L1 Testing in TNBC[1.5] FREE \_\_\_\_\_

#6 Fine Tuning Histo [1.5 hr] \$22.<sup>50</sup> \_\_\_\_\_

Lunch is provided for all-day attendees Thursday \$10 \_\_\_\_\_  
 Lunch ticket for half-day attendees or guests Friday \$10 \_\_\_\_\_

**TOTAL\$** \_\_\_\_\_

Attendee Name: \_\_\_\_\_

Institution \_\_\_\_\_

Work Address \_\_\_\_\_

Work Phone: \_\_\_\_\_ Home/Cell Phone: \_\_\_\_\_

Home Address: \_\_\_\_\_

E-mail Address: \_\_\_\_\_