

**CALIFORNIA SOCIETY FOR HISTOTECHNOLOGY**

**41<sup>st</sup> ANNUAL SYMPOSIUM/CONVENTION**

**MAY 3-6, 2018**

**DoubleTree by Hilton**

**100 The City Dr. S**

**Anaheim, California 92868**





The 41<sup>st</sup> Annual Symposium Convention of the California Society for Histotechnology will be held at the **DoubleTree by Hilton Hotel** in **San Anaheim, California**, May 3-6. This program provides complete registration information and will be the **ONLY** registration form you will receive.

### **HOTEL RESERVATIONS**

Please make your arrangements as soon as possible. **Room reservation deadline is April 3, 2018 at 12:01am. Any reservations made after this date will be subject to availability of space and rates quoted below cannot be guaranteed.** MAKE YOUR RESERVATIONS DIRECTLY WITH THE HOTEL (see information below). When phoning in your reservation, be sure to indicate that you are with the CSH Symposium/Convention to receive the rates as quoted below.

### **SYMPOSIUM REGISTRATION**

Any portion of this program may be photocopied and shared. Please indicate 1<sup>st</sup> and 2<sup>nd</sup> choices on workshops that have a class size limit. If closed, your name will be placed on a waiting list. You will receive written confirmation by US mail or e-mail for any **registration received prior to April 23, 2018. No refunds will be issued after May 1, 2018.** Please note that there are different fee schedules for CSH and non-CSH members. If you would like to join CSH and receive the reduced member rates, you may do so with your registration or online. Complete the membership application enclosed in this program with your registration and include payment for membership dues to CSH. Remit fees in US Currency and make your checks payable to CSH. Online membership: [www.californiahistology.org](http://www.californiahistology.org)

---

### **HOTEL RESERVATION INFORMATION**

**Group: California Society for Histotechnology**  
**DoubleTree by Hilton**  
**100 The City Dr. S**  
**Anaheim, CA 92868**

Dates: May 3-6, 2018

- Rooms from:           Single/double \$159   Triple \$179   Quad \$199
- Hotel Occupancy Tax: 10.4%
- Self-Parking: \$10.00/day
- No hotel shuttle.
- Check in: 4pm
- Check out: 11am
- The web page address is:
  - [http://doubletree.hilton.com/en/dt/groups/personalized/S/SNACCDT-CSH-20180503/index.jhtml?WT.mc\\_id=POG](http://doubletree.hilton.com/en/dt/groups/personalized/S/SNACCDT-CSH-20180503/index.jhtml?WT.mc_id=POG)
    - Group Name: California Society for Histotechnology
    - Group Code: CSH
- Link for directions to the hotel:
  - <http://doubletree3.hilton.com/en/hotels/california/doubletree-by-hilton-hotel-anaheim-orange-county-SNACCDT/maps-directions/index.html>
- Hotel Direct Phone Number: **714-634-4500**

**RESERVATIONS REQUIRED BY April 3, 2018**

## **PRIMARY PURPOSE AND GOALS**

The California Society for Histotechnology is dedicated to the concept of continuing education through which you may increase your knowledge and improve your skills. We intend to introduce emerging techniques and provide updates on routine procedures to insure that the professional capacity of our membership will grow. We hope that attending this Symposium/Convention among your peers will encourage you to seek more information in this and related fields, and that you will become a more valued partner in the histotechnology profession.

## **CONTACT HOURS**

All workshop attendees will receive a CSH certificate of participation at the completion of each workshop. Contact Hours replace CEU's.

## **EQUIPMENT EXHIBIT**

Manufacturing companies will exhibit the latest in laboratory supplies and equipment during the meeting. The Exhibit Hall Hours will be: Friday May 4<sup>th</sup>, 9:00 A.M. to 5:30; and Saturday May 5<sup>th</sup>, 9AM to 12 Noon. We welcome and encourage all local technologists and pathologists to view the exhibits, even if they are unable to attend any other function of this meeting.

## **REGISTRATION**

The registration desk will be open at 7:00AM and close at 2:00PM each day of the meeting.

## **NOTICE OF ANNUAL MEMBERSHIP MEETING**

The Annual Membership meeting of the California Society for Histotechnology will be held on Saturday, May 5<sup>th</sup> in conjunction with the luncheon. Annual awards will also be presented at that time. All members, including those that are not registered for the meeting, are encouraged to attend. CSH Members of the Society not registered for this meeting are welcomed to attend and will be provided lunch.

## **BOARD OF DIRECTORS MEETING**

The Board of Directors will meet on May 5<sup>th</sup> following the afternoon workshops. Any CSH member is welcome and must RSVP in advance if planning to attend this meeting. Location will be posted at the registration desk.

## **HOSPITALITY SUITES**

A wine and cheese tasting and exhibitor's reception hosted by CSH will be held at the conclusion of Friday's workshops. The location and time will be posted at the registration desk. Other hospitality suites are held at the discretion of individual exhibitors. Announcements will be posted.

## **BREAKFAST AND LUNCHESES**

**FRIDAY LUNCH WILL BE AVAILABLE FOR PURCHASE TO ALL MEMBERS, SEE REGISTRATON FORM.** The membership luncheon on Saturday, May 5<sup>th</sup>, is open to all registrants and members of the Society at no additional cost. A Continental Breakfast will be served to those registered in Sunday's workshops.

## **COFFEE BREAKS**

There will be coffee breaks provided each morning and afternoon during workshop presentations. On Friday and Saturday morning, these will be held outside the Exhibit Hall.

## **WORKSHOP LIAISONS**

Liaisons are needed for all workshops. Only one liaison will be assigned for each workshop. It is required that anyone interested in serving as a liaison to submit a registration form with the fees. Upon satisfactory completion of the Symposium/Convention and your liaison duties, the workshop fee will be refunded to you by mail. To apply as a workshop liaison, complete the liaison information area located on the registration form.

## **REMEMBER --- REGISTER EARLY**

In the past, many registrants have been disappointed at not being able to attend the workshops of their choice. Don't miss out!!! Register Now!!!

## **Education Program**

**Friday, May 4, 2018  
Morning 8:00 AM to 11:30 AM**

### **1. Introduction to Tissue Identification and Pathology**

**Ada Feldman, M.S., HT/HTL (ASCP)<sup>CM</sup>  
ANATECH LTD**

Pathology involves the study of healthy and diseased tissues. Therefore, an applicable tissue identification course would include learning the appearance of both normal and abnormal tissue. This course will cover the tissues commonly received in a clinical pathology laboratory. It begins with an overview of the four basic tissue types: epithelial, muscle, nervous and connective tissues. This will be followed with identification of normal and respective pathologies of skin, gastrointestinal, urinary, lymphatic, respiratory and reproductive systems. H&E, special stains and IHC will be represented. The material introduced will assist technicians in evaluating the quality of their stained tissue sections.

### **2. School of Muscle Biopsies**

**David Muirhead, AIBMS, AIMLS, MSA  
City of Hope National Medical Center  
Level: II/III**

This is an introduction to the structure and pathology of the more common neuro muscular diseases seen in the histopathology laboratories. An appreciation of normal muscle and its anatomy and preparation for microscopic evaluation along with its more common muscle related disease processes. The Histotechnologist will discover the clinical manifestations of the muscle disease and learn some of the terminology used in making the diagnosis.

The Histotechnologist will be exposure and explanation given of the routine histological processes with the accent being on the use of special stains. A working knowledge and understanding will be gained on the interpretation of the stains. Images of routine, histochemical and some immunofluorescence stains along with electron micrographs to demonstrated the characteristic ultrastructure of the diseases, when appropriate.

It will give an insight into how it all comes together to give a precise and concise diagnostic result, much like a jig-saw puzzle, when one piece is missing the true picture cannot be seen.

### **3. Preparing for the HT/HTL (ASCP) Exam – Part 1**

**Jennifer MacDonald, HT (ASCP), RT (CSMLS)  
Mt. San Antonio College  
Level: I**

This workshop is designed to provide the attendees the necessary information for preparing for the HT/HTL (ASCP) exam. The workshop will cover the basics of the examination format and the basics of histotechnology. An overview of Computer Adaptive Testing (CAT) and the ASCP exam guidelines will be presented. Topics covered will include fixation, processing, embedding, microtomy, and routine H&E staining. Presentation will include photos of processing and microtomy artifacts. Special staining procedures and basic trouble shooting of special stains will also be included. Presentation will include photos of special stains. Stains covered will be taken from the summary of stains list provided by the ASCP.

**Friday, May 4, 2018**  
**Afternoon 1:30 PM to 3:00 PM**

**4. Chemistry of Buffers in the Histology Laboratory**

**Jason Ramos, Ph.D.**  
**Biocare Medical, LLC**  
**Level: I**

As every histotech knows, the accuracy and consistency of your clinical results depends upon the quality and reliability of your reagents. Most reagent solutions are based on a buffer system, which is a critical feature in providing consistent and accurate results.

This workshop will provide a thorough understanding of buffer systems, including why buffers are an important component of histology reagents and how buffers work to control pH, as well as an understanding of “buffer capacity.” Principles for selecting an appropriate buffer and methods to prepare a custom buffer solution will be discussed. The proper methods for measuring pH and its limitations, and tricks for adjusting pH, will be described. A summary of the properties and features of the most common histology buffer systems will be provided, focusing on the role of buffers in antibody diluents, retrieval solutions, detection systems, chromogens and wash buffers. The workshop will include numerous examples and real-world problems, laboratory math, as well as a handy reference guide for future use.

**Friday, May 4, 2018**  
**Afternoon 3:30 PM to 5:00 PM**

**5. IHC Troubleshooting: When Things Go Wrong**

**Jason Ramos, Ph.D.**  
**Biocare Medical, LLC**  
**Level: II**

This troubleshooting overview is designed to ensure all students have a concrete understanding of the basic tenets of IHC, how commercial IHC reagents are used, and the implications of that knowledge on work in an IHC laboratory. Typical technical support scenarios will be discussed, so the participants may better appreciate the importance of each of the individual steps in the IHC protocol. The focus on IHC troubleshooting will allow the participants to understand where procedures go awry, how to identify a problem, and how to systematically go about correcting issues. All of the topics covered will be tied back to the IHC laboratory to improve basic knowledge and IHC skills.

**Friday, May 4, 2018**  
**Afternoon 1:30 PM to 5:00 PM**

**6. Quality in Digital Pathology Era: Every Pixel Counts**

**Elizabeth Chlipala, B.S., HTL (ASCP) QIHC**  
**Premier Laboratory, LLC**  
**Level: I**

Standardization remains a challenge across all Histology laboratories and at times even from day to day in our own laboratories. In the Era of Digital Pathology uniformed processing of tissue every step of the way, as well as standardization in staining become corner pillars. During this interactive workshop, we will discuss quality oversight from pre-analytical parameters of specimen collection and fixation, to specimen processing and most importantly – approaches to reproducibility of the slides and stains your laboratory produces. Join our discussion and share your experiences, as well as learn about step-by-step quality approach to laboratory processing that can be applied in clinical environment, as well as in research and veterinary fields. We also will discuss benefits that Digital Pathology adaptation offers you today, and shed some light on “future in the making” innovation tactics on just how field of pathology will be approaching slide interpretation, training and education, or consultations. Join us for a stimulating dialogue of wonderful benefits Digital Pathology can offer your laboratory, once process is well controlled and slides your laboratory produces are uniformed and of excellent quality. Let’s do it together!

## 7. Merging Automation & Innovation in the Histology Lab....Is this Possible Today?

**William DeSalvo, B.S., HTL (ASCP)**

**Collaborative Advantage Consulting LLC**

**Level: I**

Automation in Histology is a multi-disciplinary process to integrate manufactured machinery and software to perform manual tasks that allows the lab to capitalize on technology that will provide new and improved processes, increased quality and, most importantly, improved patient safety.

Innovation in Histology has been established/developed thru the tools of LEAN and Six Sigma and is a process that represents means and an end. As an example, changes in workflow can be beneficial to productivity and can make a happier workforce. The evolution of innovation in Histology, both sustaining and disruptive, has taken us from inferior processes to replacement with superior processes. Automation cannot be successful without applying innovation.

So, is this possible today? YES. The continued pressure of healthcare reform and increased pressure from the regulatory agencies will drive this move to more automation and continued innovation and continual change. Histology managers are increasingly pressured to improve efficiency by providing more analytical results at a lower cost, increasing customer service, reduce cycle time, while ensuring accurate results and more effective use of their staff. Embracing AUTOMATION/INNOVATION is essential.

Establishing automated systems (hardware and software) presents many challenges for Histology management, including project and hardware selection, budget justification, implementation, validation, training, and support. This workshop will provide learnings/outcomes from implementation projects and address the challenges, both obstacles and advantages, which will provide the attendee a new understanding of how automation/innovation can move your lab from niche application to integrated process.

## 8. Preparing for the HT/HTL (ASCP) Exam – Part 2

**Jennifer MacDonald, HT (ASCP), RT (CSMLS)**

**Mt. San Antonio College**

**Level: I**

This workshop is designed to provide the attendees the necessary information for preparing for the HT/HTL (ASCP) exam. The workshop will cover the basics of the examination format and the basics of histotechnology. An overview of Computer Adaptive Testing (CAT) and the ASCP exam guidelines will be presented. Topics covered will include fixation, processing, embedding, microtomy, and routine H&E staining. Presentation will include photos of processing and microtomy artifacts. Special staining procedures and basic trouble shooting of special stains will also be included. Presentation will include photos of special stains. Stains covered will be taken from the summary of stains list provided by the ASCP.



***Friday Evening  
“CSH Wine and Cheese”***

**Saturday, May 5, 2018  
Morning 8:00 AM to 9:30 AM**

**9. Going Digital – Breaking the Mold of Traditional Pathology services and how do we get There?**  
**Mari Yang, DM, MHA, CT<sup>cm</sup> (ASCP) HTL<sup>cm</sup>**  
**Hoag Memorial Presbyterian Hospital**  
**Level I**

The approval by the Food and Drug Administration for Digital Pathology for primary screening changes the landscape of how Pathology services are provided. To remain competitive and excel in quality, incorporation of new technology may be key to today's thriving Pathology service. With the numerous scanning options available today, where does one begin?

In this workshop, primary screening, tumor board, and consultation services will be explored. Other focus areas include implementation and cost management. Leaders who are interested in expanding services to include Digital Pathology will enjoy a scintillating hour of lessons learned, benefits, and pitfalls.

**Saturday, May 5, 2018  
Morning 10:00 AM to 11:30 AM**

**10. Automated Embedding in the Histology Laboratory**  
**William DeSalvo, B.S., HTL (ASCP)**  
**Collaborative Advantage Consulting LLC**  
**Level: I**

The continued pressure of healthcare reform and increased pressure from the regulatory agencies will drive this move to more automation and continual change. Histology managers are increasingly pressured to improve efficiency by providing more analytical results at a lower cost, increasing customer service, reduce cycle time, while ensuring accurate results and more effective use of their staff. What are the instrument options for automated embedding? What are the advantages and obstacles to implementing automated embedding? Why should I consider automated embedding? This workshop will explore the options for instruments, possible process changes, employee satisfaction and increased patient safety. Attendee will gain full understanding of the state of automated embedding and how to improve and manage their process and directly affect employee reallocation and satisfaction.

**Saturday, May 5, 2018  
Morning 8:00 AM to 11:30 AM**

**11. Troubleshooting H&E in the Age of Automation**  
**Ada Feldman, B.S., HTL (ASCP)**  
**ANATECH LTD**  
**Level: I**

Manual staining allows the Histotechnician to spot process errors or discrepancies on the fly: too little rinsing; inadequate volume, etc. These observations assist in troubleshooting staining artifacts. However, automated stainers deliver the finished stained slide, eliminating the clues derived from observation. This presentation will be an atlas of H&E artifacts. It will include the chemical and physical properties that influence H&E staining and note the variables presented by automatic stainers. Troubleshooting artifacts involves a dichotomy thought process that will be included in the troubleshooting exercises.



## 12. Part II: How to Be A successful AP Manager \ Supervisor, what should you know?

David Muirhead, AIBMS, AIMLS, MSA

City of Hope National Medical Center

Level: II/III

In today's environment it is essential to change culture and engage your staff at all levels to improve your work flow processes and engagement scores. Your engagement scores are followed at the hospital executive level to help chart the hospitals success in keeping retention to a minimum compared to your various peers in the industry.

Understanding ways for you to be engaging will translate into actions and language that is understood at their level is of paramount importance for you to be successful.

More and more senior executives are implementing surveys, i.e. Action-O-I, Press Ganey, Gallup and The advisory board company to access their divisions and hospital to understand the dynamics of what works and what does not and help to understand the psyche of their workforce. Unfortunately, the success of the manager or supervisor will be based on these scores. As a manager, you will be held responsible and accountable for your overall staff, their performance, engagement and ability to maintain and improve.

Therefore, being successful is understanding the dynamics of your team and knowing how to interact, motivate, and engage is of paramount importance. This workshop will give you some tools and direction that will put you on the road to success.

## 13. Developing Immunohistochemical (IHC) Assays for Animal Models of Disease

Elizabeth Chlipala, B.S., HTL (ASCP) QIHC

Premier Laboratory, LLC

Level: II

In a wide variety of research settings, we are tasked to develop Immunohistochemical (IHC) assays that will be specifically used for animal models. This webinar will discuss the detailed methods necessary to successfully develop and verify these assays for both well-characterized and novel targets. Topics discussed will include - The importance of creating a collaborative environment between the researcher/pathologist and the histology laboratory. The value of understanding the animal model and the type of data that is to be generated from the histology process from tissue collection through staining. How to research and select the right antibody and control tissues. Discussion on the value of pilot samples for protocol optimization and how to develop standardized study specific methods for proper tissue collection, fixation, processing, sectioning and staining. Overall, this workshop will cover not only Immunohistochemical protocol development but also address other aspects of the histology process that are important to the precision and reproducibility of Immunohistochemical staining over time.



***Membership Luncheon***



**14. Managing Process Change – Are You Ready for It?**

**Mari Yang, DM, MHA, CT<sup>cm</sup> (ASCP) HTL<sup>cm</sup>**  
**Hoag Memorial Presbyterian Hospital**  
**Level I**

Process improvement isn't just the latest buzzword; it's a new way of managing operations. In today's competitive lab where operation excellence is the expected norms, leaders struggle with balancing patient care demands and change integration. In this workshop, several tools will be reviewed to help the leader develop a systematic way to plan for change. With this structured approach, leaders can identify key challenges, rank priority, and identify which processes to address. The participants will also learn how to incorporate front-line staff, maximize engagement, and manage outcomes. This workshop will benefit anyone who wants to integrate both microscopic and macroscopic change.

**15. Principles of in situ Hybridization**

**Jason Ramos, Ph.D.**  
**Biocare Medical, LLC**  
**Level: I**

The use of in situ hybridization in the histology laboratory is increasing, and, in some cases, becoming the standard for diagnosis of select diseases. This workshop is intended to provide an overview of basic in situ hybridization techniques to offer a better understanding of the utility of these tests. A brief review of molecular biology will be conducted to demonstrate the scientific principles behind in situ hybridization. The in situ hybridization protocol will be elucidated, while outlining the potential pitfalls that may arise at each step of the process. All topics covered will be related back to the molecular laboratory to improve basic knowledge and in situ hybridization skills.

**Saturday, May 5, 2018**  
**Afternoon 3:45 PM to 5:15 PM**

**16. Immunofluorescence (IF) Techniques and Their Applications in the Histology Laboratory**

**Joseph Vargas, M.S., HTL (ASCP)**  
**Biocare Medical, LLC**  
**Level: II**

Immunofluorescence (IF) is a rapidly expanding and utilized method in the histology laboratory. IF procedures have gained considerable popularity and are being used to a greater degree in today's research and clinical laboratories. The sensitivity and quantitative aspects of IF have made this the go-to method in situations that require same compartment target separation. This workshop will cover the typical fluorescence microscope setup that includes selection of hardware and software used to control peripheral devices on a fluorescence platform. In addition, methods of fixation and processing of tissues will be covered. Primary antibody selection and detection strategies using direct, indirect, and multiplexing methods with conventional fluorophores will also be described. Working protocols developed on frozen, free-floating and FFPE tissues will be covered in detail. This presentation will conclude with a description of auto fluorescence and ways to negate this effect in problematic tissues. Participants with minimal to intermediate knowledge or hands-on experience with IF in their laboratory will benefit from this workshop.

## **17. Validation of Histology Equipment in a Regulated (GxP) Environment**

**Elizabeth Chlipala, B.S., HTL (ASCP) QIHC**

**Premier Laboratory, LLC**

**Level: I**

This lecture will define the various tasks utilized for equipment validation for the histology laboratory in a regulated (GxP) environment. An overview of the validation process; including installation qualification (IQ), operational qualification (OQ) and process qualification (PQ) along with user acceptance testing (UAT) and change control will be defined and discussed. The when and how's of equipment maintenance, calibration and record keeping will also be addressed. Participants will learn how to prepare a Master Validation Plan for their institution to include both basic and advanced validation protocols. This lecture is geared towards laboratories working within a regulated environment but the principles discussed can also be applied to equipment validation in the clinical setting since current CAP guidelines regarding equipment validation will be reviewed along with a brief discussion on validation for IHC staining.

**Saturday, May 5, 2018  
Afternoon 2:00 PM to 5:15 PM**

## **18. "It's a small world after all, the small things matter." A Look into the World of Electron Microscopy**

**David Muirhead, AIBMS, AIMLS, MSA**

**City of Hope National Medical Center**

**Level: I/II/III**

25-30 years ago, our industry said that electron microscopy would be gone and replaced by Immunohistochemistry. It is still around and is used in specific conditions in clinical settings. It still has a major stake holds in research and academia. Many published papers today will have electron micrographs as supportive evidence embedded in the publication in biological sciences or material sciences.

This workshop will give a basic theoretical knowledge of EM techniques used in the preparation of biological samples to include the preparation of viral samples. It will introduction the participants to the normal ultrastructure of the Eukaryotic cell and a review of interesting diagnostic ultrastructure changes seen in surgical biopsies.

## **19. Creating Precision in the Histology Laboratory**

**William DeSalvo, B.S., HTL (ASCP)**

**Collaborative Advantage Consulting LLC**

**Level: I**

This is what we want. Precision - the quality, condition, or fact of being exact and accurate. In the Histology lab - refinement in a task, measurement, calculation, or specification. Precision is the related to reproducibility and repeatability, repeated measurements under unchanged conditions show the same results.

This is essential. Accuracy – description of systematic errors, a measure of statistical bias; as these cause a difference between a result and trueness (ISO term)

Our processes can be accurate but not precise, precise but not accurate, neither, or both. For example, if a task contains a systematic error, then increasing the sample size generally increases precision but does not improve accuracy. Therefore, a process can only be considered valid if it is both accurate and precise. Too often accuracy and precision are used interchangeably, but must be addressed separately to achieve a valid and improved process. Effectively managing Accuracy and precision always leads to improved patient safety. This workshop will explore the tools and work thru Histology tasks to help attendees identify and control variation. Attendee will gain a new understanding of how to improve and manage their process and directly affect patient safety.

**Sunday May 6, 2018  
Morning 8:00 AM to 9:30 AM**

**20. Dermatopathology Pearls**

**Hadas Skupsky, M.D.  
Laser Skin Care Center Dermatology Associates  
Level: II**

This workshop will educate the histologist with regard to the special handling required for skin specimens. A lecture provided by a board-certified Dermatopathologist, will explore the basic histology of the skin, and highlight some of the unique challenges associated with grossing and processing skin specimens. Helpful tips will be provided on grossing "special site" skin specimens, such as alopecia scalp biopsies and biopsies of pigmented lesions on acral skin. Time for questions and interactive discussion will be provided.

**21. The Role of GHS in the Histology Laboratory**

**Jennifer MacDonald, HT (ASCP), RT (CSMLS)  
Mt. San Antonio College  
Level: I**

The Globally Harmonized System (GHS) is an international approach to hazard communication, providing criteria for classification of chemical hazards, and a standardized approach to label elements and safety data sheets. OSHA is requiring that employees be trained on the new label elements (i.e. pictograms, hazard statements, precautionary statements, and signal words) and SDS format. Is your lab in compliance? This workshop will provide attendees with information for SDS formats and the new GHS labeling requirement.

**Sunday May 6, 2018  
Morning 8:00 AM to 10:15 AM**

**22. The Use of Large Format Cassettes in the Routine Diagnosis of Clinical Specimens**

**Neil Haine, Ph.D., BSc. (Hons) and Phil Bryant, Ph.D. MRSB FIBMS  
CellPath Ltd  
Level I**

In Europe and the United Kingdom, the use of large format, supra mega cassettes in routine clinical diagnosis is well established. In North America however, large tissue specimens such as bowel, breast and prostate are sliced in the grossing room and usually processed in multiple smaller, conventional-sized tissue cassettes. Consequently, at microscopy, the whole specimen needs to be pieced together like a jigsaw since the stained sections are presented over many slides. Using supra mega cassettes will alleviate this problem by aiding diagnosis and turnaround times through improvement in visibility since the entire sample can often be viewed on a single slide. During this workshop, best practices will be described for consistency in grossing, processing, embedding, microtomy and staining of tissue samples when using supra mega cassettes. Furthermore, tissue processing schedules for standard, rapid and microwave tissue processors routinely found in histology laboratories will be made available. The clinical benefits of using supra mega tissue cassettes will be discussed and the consumables associated with them will be available for reference. In addition, the advances made within the large format product range to improve diagnostic turnaround times and usability will be described using comparative images of both conventional and supra mega cassette systems. Open discussion will be encouraged through interactive question and answer sessions.

**23. Cytopreparation**

**Shirley Pan, MSHCA, CT(ASCP)HT**  
**Dignity Health**  
**Level I**

The Histology Department is often responsible for preparing Cytology samples. This workshop will review how and why each step of Cytology preparation is important for quality results. Cytopreparation is the science of proper collection, preparation, and analysis of cytological specimens to demonstrate cells for accurate microscopic interpretation and diagnosis. Collection technique and specimen handling methods facilitate preparation of cells that represent the cytologic sample. Cytologic procedures include concentration of cell samples, slide preparation, fixation, staining, and mounting samples to enhance cytoplasmic and chromatin display. Fixation maintains morphology. Staining samples with Papanicolaou stain, Special Stains, and immunocytochemical stains enables cell visibility, detection, and interpretation. Microscopic objective's performance is enhanced by mounting and coverslipping with proper mounting media and coverslips. Consistently following standardized procedures should provide quality slide preparations. However, problems with fixation or staining may occur. Troubleshooting preparation deficiencies and implementing solutions for adequate quality slide preparation will be reviewed.

**REGISTRATION FORM**

**CSH 41<sup>st</sup> ANNUAL SYMPOSIUM/CONVENTION, MAY 3-6, 2018**  
**DoubleTree by Hilton**  
**100 The City Dr. S**  
**Anaheim, CA 92868**

Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Reg # \_\_\_\_\_  
 Home Address \_\_\_\_\_ Check# \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_ Amt Recd \_\_\_\_\_  
 Employer \_\_\_\_\_ Amt Owed \_\_\_\_\_  
 Work Address \_\_\_\_\_ Refund \_\_\_\_\_  
 \_\_\_\_\_ Comments \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

E-mail (mandatory) \_\_\_\_\_ Preferred Phone \_\_\_\_\_

Mail all correspondence to:  Home **OR**  Work (if not specified all correspondence will be sent to home address)  
 If you are not currently a CSH Member or wish to renew your membership, you may do so at this time and pay member fees for your workshops. Fill out the attached membership application and include the appropriate dues with your registration fees.

**CONTACT HOURS: CEU Certificates will be available for pick up at the completion of each workshop for preregistered attendees.**

If you **DO NOT** want the exhibitors to be given your name and work address/phone, check here \_\_\_\_\_

If you require a vegetarian meal for your lunch(s), check here \_\_\_\_\_

Date and Time of Workshop		Length/CEU hours	CSH	NON	Student/Military**	Amt
<b>FRI, May 4<sup>th</sup>, Morning Workshops - 8:00 AM to 11:30 AM</b>						
1	Introduction to Tissue ID and Pathology	3 hrs	\$35	\$65	\$20	
2	School of Muscle Biopsies	3 hrs	\$35	\$65	\$20	
3	Preparing for the HT/HTL(ASCP) Exam (Part 1)	3 hrs	\$35	\$65	\$20	
<b>FRI, May 4<sup>th</sup>, Afternoon Workshops – 1:30 PM to 3:00 PM</b>						
4	Chemistry of Buffers in the Histology Laboratory	90 min	\$20	\$35	\$10	
<b>FRI, May 4<sup>th</sup>, Afternoon Workshops – 3:30 PM to 5:00 PM</b>						
5	IHC Troubleshooting: When Things Go Wrong	90 min	\$20	\$35	\$10	
<b>FRI, May 4<sup>th</sup>, Afternoon Workshops – 1:30 PM to 5:00 PM</b>						
6	Quality in Digital Pathology Era: Every Pixel Counts	3 hrs	\$35	\$65	\$20	
7	Merging Automation & Innovation in the Histology Lab	3 hrs	\$35	\$65	\$20	
8	Preparing for the HT/HTL(ASCP) Exam (Part 2)	3 hrs	\$35	\$65	\$20	
<b>SAT, May 5<sup>th</sup>, Morning Workshops – 8:00 AM to 9:30 AM</b>						
9	Going Digital	90 min	\$20	\$35	\$10	
<b>SAT, May 5<sup>th</sup>, Morning Workshops – 10:00 AM to 11:30 AM</b>						
10	Automated Embedding	90 min	\$20	\$35	\$10	
<b>SAT, May 5<sup>th</sup>, Morning Workshops – 8:00 AM to 11:30 AM</b>						
11	Troubleshooting H&E in the Age of Automation	3 hrs	\$35	\$65	\$20	
12	How to Be a Successful AP Manager	3 hrs	\$35	\$65	\$20	

13	Developing IHC Assays for Animal Models	3 hrs	\$35	\$65	\$20	
<b>SAT, May 5<sup>th</sup>, Afternoon Workshops – 2:00 PM to 3:30 PM</b>						
14	Managing Process Change	90 min	\$20	\$35	\$10	
15	Principles of in situ Hybridization	90 min	\$20	\$35	\$10	
<b>SAT, May 5<sup>th</sup>, Afternoon Workshops – 3:45 PM to 5:15 PM</b>						
16	IF Techniques and Their Applications	90 min	\$20	\$35	\$10	
17	Validation of Histology Equipment	90 min	\$20	\$35	\$10	
<b>SAT, May 5<sup>th</sup>, Afternoon Workshops – 2:00 PM to 5:15PM</b>						
18	A Look into the World of Electron Microscopy	3 hrs	\$35	\$65	\$20	
19	Creating Precision in the Histology Laboratory	3 hrs	\$35	\$65	\$20	
<b>SUN, MAY 6<sup>st</sup>, Morning Workshops – 8:00 AM to 9:30 AM</b>						
20	Dermatopathology Pearls	90 min	\$20	\$35	\$10	
<b>SUN, MAY 6<sup>st</sup>, Morning Workshops – 10:00 AM to 11:30 AM</b>						
21	Hazard Communication: GHS Labeling	90 min	\$20	\$35	\$10	
<b>SUN, MAY 6<sup>st</sup>, Morning Workshops – 8:00 AM to 10:15 AM</b>						
22	The Use of Large Format Cassettes	2 hrs	\$30	\$60	\$15	
<b>SUN, MAY 6<sup>st</sup>, Morning Workshops – 8:00 AM to 11:30 AM</b>						
23	Cytopreparation	3 hrs	\$35	\$65	\$20	
<b>Total Fees for Workshops</b>						
<b>Registration Fee (required, non-refundable)</b>						<b>\$30</b>
<b>Friday Lunch - Specify no: _____ x \$25.00 =</b>						
<b>Guest Tickets*** for Saturday Membership luncheon - Specify no: _____ x \$30.00 =</b>						
Membership Dues (Optional. Fill out application and enclose with registration)						
<b>TOTAL AMOUNT ENCLOSED</b>						

\*\* Note: Student and Military Categories requires Proof of Status

Student must be enrolled in an NAACLS accredited laboratory science program (i.e. Histology, Cytology, Clinical Laboratory science, Phlebotomy). Military members will be asked for military ID.

Provide contact information for Program Director: \_\_\_\_\_

\*\*\* Membership luncheon is provided to registrants and CSH members. Guest tickets can be purchased for \$30.00 per person

**Make check payable to CSH and mail registration form to:**

**Beverly A. Chandler**  
**6977 Navajo Road**  
**P.O. Box 195**  
**San Diego, CA 92119**  
**ba\_chandler@hotmail.com**

**Any questions can be directed to Kathy Hardy at:**  
**kathy.hardy@sbcglobal.net**  
**(408) 772-8238**

You may also register on-line on our website: <http://www.californiahistology.org/events.html>

Alternatively, scan this code with your mobile device.



**Liaison Information** (description of duties may be obtained from the registrar)

I am interested in being a liaison for the following workshop: \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip Code \_\_\_\_\_

Preferred Phone \_\_\_\_\_ e-mail \_\_\_\_\_

TO BECOME A MEMBER OF CSH AND **OBTAIN MEMBERSHIP RATES FOR THE WORKSHOPS**, COMPLETE THE APPLICATION ON THE FOLLOWING PAGE. INCLUDE THIS FORM WITH YOUR CONVENTION REGISTRATION. INCLUDE ADDITIONAL MONEY FOR MEMBERSHIP DUES WITH YOUR REGISTRATION.



**CALIFORNIA SOCIETY FOR HISTOTECHNOLOGY**  
**Membership and Renewal Application**

Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip Code \_\_\_\_\_

**MEMBERSHIP STATUS**

New     Renewal

Place of Employment \_\_\_\_\_  
 Address \_\_\_\_\_  
 City/State/Zip Code \_\_\_\_\_  
 Phone (Home) \_\_\_\_\_  
 Phone (Work) \_\_\_\_\_

**CHAPTER**

Los Angeles/ San Bernardino  
 San Diego  
 Northern/San Joaquin

E-mail (mandatory for registering) \_\_\_\_\_

Preferred Mailing Address:  Home     Work

**Dues**

Membership Types	Mail-in Rate	Online Rate (includes service fees)
Regular	\$30	\$33.50
2-Year Regular	\$55	\$59.50
Student*	\$15	\$17.50
Retired	\$15	\$17.50
Military*	\$15	\$17.50

**\*Student and Military membership rates require proof**

**CHECK ALL APPLICABLE BOXES**

- |                                      |                                 |                                      |                                      |
|--------------------------------------|---------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> HT (ASCP)   | <input type="checkbox"/> AA/AS  | <input type="checkbox"/> HOSPITAL    | <input type="checkbox"/> SALES       |
| <input type="checkbox"/> HTL (ASCP)  | <input type="checkbox"/> BA/BS  | <input type="checkbox"/> CLINICAL    | <input type="checkbox"/> EDUCATION   |
| <input type="checkbox"/> MLT (ASCP)  | <input type="checkbox"/> MA/MS  | <input type="checkbox"/> PRIVATE LAB | <input type="checkbox"/> STUDENT*    |
| <input type="checkbox"/> MLS (ASCP)  | <input type="checkbox"/> PhD    | <input type="checkbox"/> UNIVERSITY  | <input type="checkbox"/> RETIRED     |
| <input type="checkbox"/> CT (ASCP)   | <input type="checkbox"/> MD/DVM | <input type="checkbox"/> INDUSTRY    | <input type="checkbox"/> MILITARY*   |
| <input type="checkbox"/> QIHC (ASCP) |                                 | <input type="checkbox"/> VETERINARY  | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Other _____ |                                 |                                      |                                      |

You may also apply for/renew your membership on-line at  
[http://www.californiahistology.org/member\\_registration/membership.html](http://www.californiahistology.org/member_registration/membership.html)

Alternatively, scan this code with your mobile device.

