

On Stage

Volume 34, Issue 2 Spring 2014

Histology Basics – Or Is It?

By: Amy Farnan

As we go through our work day, day in and day out things get very repetitive. Gross the specimens, process the tissue, embed, cut, stain, and cover slip....until something happens to disrupt the work flow. Darn it! Thick and thin sections, you can't get a decent ribbon, the stain looks washed out and the pathologist is complaining. We have all experienced this and it can really throw a monkey wrench in your day. Now your brain has to get out of its repetitive mode and start to troubleshoot. For many this is a piece of cake but sometimes it can be very baffling and a nuisance depending on the issue. Here are some troubleshooting hints that can help in the process of elimination.

Microtomy:

Thick and Thin Sections -	Loose knife holder -----check locking mechanism Knife angle incorrect----- increase gradually Specimen too large Specimen too hard----- soak Specimen orientation is incorrect ----re-embed Sectioning too fast Incorrect pressure on the blade ----- Adjust knife holder Dirty knife holder ----- make sure back and front of clamping device is clean.
Chatter -	Tissue is over processed-----soak, or dip quickly in warm water Dull knife Incorrect angle-----lower angle gradually
Venetian Blinds -	Specimen too large or too hard -----soak or trim down if possible Knife holder loose Microtome malfunction
Unable to attain ribbon -	Dull Knife Coating on blade ---- clean with alcohol wipes Paraffin too hard Curled Ribbon -----cut thinner sections/ or dull down knife
Crooked Ribbon -	Block not parallel to blade ----realign chuck with block to knife Knife placed in holder uneven
Compression -	Dull knife Block too warm Cutting too fast-----1 cycle/ second Dirty paraffin Incorrect angle

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Deadlines for Submission are:

September 1 - Fall
December 1 – Winter
March 1 - Spring
June 1 - Summer

Membership in the New York State Histotechnological Society, includes a subscription to *On Stage*. The annual membership fee is \$20.00. Please direct membership inquiries to:

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Spring Letter



Wow, what a winter we experienced....it's time for old man winter to move a side and for spring to come in!! and the best way I can think of celebrating the arrival of spring is to come to NYSHS Annual meeting in beautiful Canandaigua. Earn CEU's while staying at the wonderful "*Inn by the Lake*" on the northern shore of Canandaigua Lake. With great views and plenty of local vineyards nearby, this year's symposium is sure to shake off the winter chill. Make it a family trip and a perfect long weekend.

We have a great list of speakers and plenty of scholarships so be sure to read thru this issue to learn all about the meeting. Some of you may have noticed that our website is currently down (and out as off 3/15!)....rest assured, we have been working hard to restore the site but I believe it requires a brief explanation. In 2004, Labvision provided free website hosting for state societies. In 2010, NYSHS moved to its own host. Unfortunately, the domain name (nyhsito.org) license did not move along with us! That's right; you guessed it....the license on our domain name expired on the 15 of March. Now that in of itself is not usually a problem but the fact that the domain name is still owned by Labvision is....as most of you know, Labvision was purchased by Thermo and here in lies the problem. No one is really sure how to remedy the problem: Labvision (license holder) has to directly contact the original domain name grantor in order to authorize a domain transfer to our current website host provider so that we can repurchase the domain name for ourselves....! Confused....? So were we but we are not alone. In fact, several state societies are facing similar problems/issues. Needless to say, everyone is working hard on a solution and we hope to the have problem resolved as soon as possible.

In the meantime, we will be using the yahoo message board for communication so be sure that you subscribed. If you need help subscribing, just visit the yahoo group's page and search for "Histology". You'll find us listed as "NYSHS1972" (our birth year!). Just follow the instructions on how to subscribe and you'll be all set.

As always, if you have any questions, concerns or comments, feel free to reach out to any of our officers or board members (listed in this issue).

Hope to see you all *by the lake*!!!!

Luis



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Histology Basics – Or Is It?

By: Amy Farnan

H&E Staining:

Uneven staining of multiple sections on same slide -----over soaking block in between sections

Eosin leaching out ----- slide not dehydrated enough
Xylene substitute contains water (adsorbs
Humidity in the air very quickly)

Muddy nuclear stain----- Incomplete fixation
Too much heat during processing
Temperature of slide dryer too high
Specimen not dehydrated and cleared properly
before paraffin infiltration

Pale nuclear stain -----Over oxidized hematoxylin
Over differentiation
Did not leave in hematoxylin long enough

White areas of unstained tissue-----Tissue not deparaffinized completely

Circular areas of unstained tissue----- Bubble trapped under tissue from water
bath

Pale cytoplasm staining ----- Incorrect PH of eosin
Over dehydration
Section too thin

These suggestions can help with some of the more common histology concerns. If you find you have a problem not solved by one of these tips, consult histology textbook, contact colleagues in other labs, or search the internet. A popular site to find suggestions and troubleshooting for countless histology issues is <http://www.histosearch.com/histonet.html> where you can pick some of the most experienced histo brains out there! +

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Few Words from Editor
Diana Scott

Good day to you all,

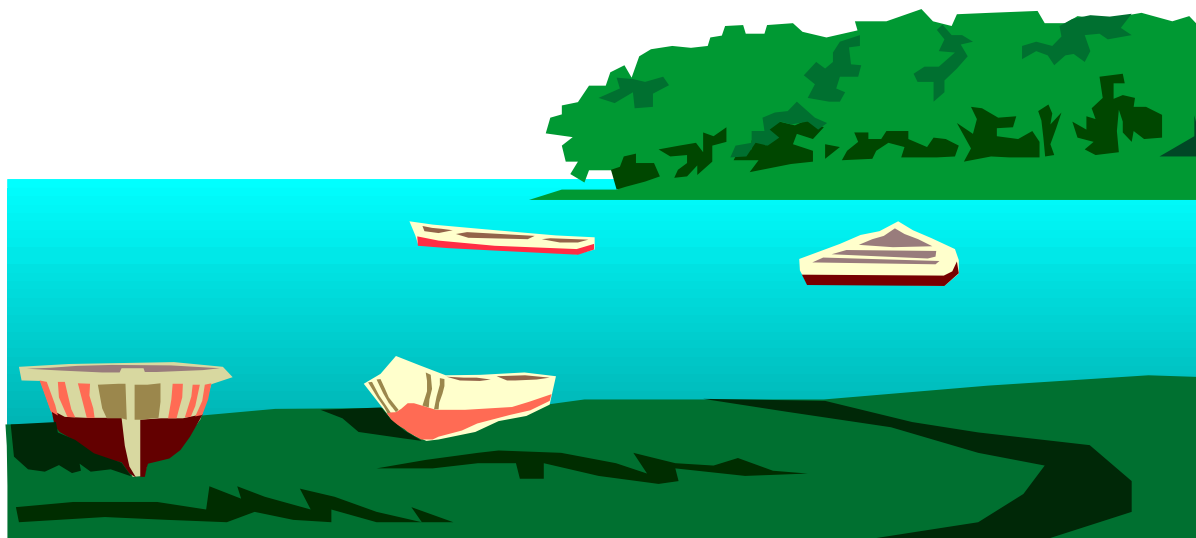
As we anticipate the arrival of spring after a very long cold, snowy winter the busy bees have been buzzing around with preparation for the NYSHS symposium in Canandaigua, NY. The program lay out is 1.5 day symposium with total of 9 NSH CEU approved 1 hour lectures. Take a look at the program within the newsletter. I am sure there is a topic of interest for everyone. We have scholarships and awards available, vendors, and relaxing networking opportunity with colleagues. Don't forget it is election time and if you feel you or someone you know could be interested in running for a seat, check out the call for nominations.

You will see, I have also included a word search; I will try and keep this going as long as the membership is interested. I need your help and suggestions for keeping the newsletter going. I could use some articles, tips of the trade or information you can use segments or a summary of a meeting, work shop or lecture you may have attended.

Help me keep this newsletter viable and informative. The newsletter is published quarterly and that takes articles. Your input would be appreciated.

In closing, take a look at the program, make plans to attend, and support the State Society's effort to provide you with cost effective educational opportunities. Our program is designed to keep you actively informed in the discovery, implementation and vision of new, current and past technology.

So! What do you say, are you interested and excited? Spring is in the air and hopefully at the Canandaigua Inn on the lake, on May 2 and 3rd, 2014.





Get up to 9 contact hours at the NYSHS meeting in 1.5 days.

Continuing education credits for participation in the 2014 NYSHS Canandaigua Symposium will follow the same format as last year. The attendee must register for the meeting and sign- in at the registration desk on the registration log.

Attendance will be documented for each lecture and participants are asked to return a completed evaluation form.

Each attendee seeking NSH CEU credit will be responsible to visit the NSH Contact portal and enter their appropriate information.

Once you have entered the information you will be able to print out your certificate. **Specific information will be enclosed in your registration folder.**

Hope to see you're there! Diana

- Use one registration form per person. Forms may be duplicated. Name Tags are required for entry into all functions.
- Guests of attendees must register using a separate form. Guests are **not** permitted to attend educational sessions but are eligible to attend all other functions.
- NSH Contact hours for CEU's will be given for all educational sessions.

NYSHS BOD Meeting: Thursday May 1 6:30 PM

Registration Hours:

Friday May 2nd 11:00 AM-1:30 PM

Saturday May 3rd 7:00 AM-11:30AM

Vendor Exhibit Hours:

Friday May 2nd 1:00 PM-7:00 PM

Saturday May 3rd 7:00 AM-1:00 PM

For a complete Educational Program including workshop abstracts, and registration please visit the New York State Histotechnology website at:

<http://www.nyhisto.com>

Its not too late to register!!

*Meeting at a Glance*

Registration Opens Friday May 2, 2014 Lunch on your own	11:30 AM
A. <u>“Biosafety for Histopathology: What’s Review and What’s New?”</u> Judy Laduc BS RBP (ABSA)	1:00-2:00 PM 1.0 CEU
B. <u>“Multi-Antigen Immuno-staining”</u> John Comensky BS HT(ASCP) QIHC	2:00-3PM 1.0 CEU
Coffee Break	3:00-3:30PM
C. <u>“Histotechnology: Making Slides That Matter”</u> Vernon Pilon MD	3:30-4:30 PM 1.0 CEU Keynote
Vendor Exhibit Hall Open	1:00-5:30PM
General Membership Meeting	4:30-5:00PM
Vendor Hall Wine & Cheese Reception <i>Only light fare will be served</i>	5:30-7:00 PM
Registration Opens– Saturday May 3, 2014 Continental Breakfast Served	7:00 AM
Vendor Exhibit Hall Open	7:00-3:00 PM
D. <u>“The New Face of Quality and Compliance in the Laboratory”</u> Julietta Fiscella MD <i>Fran Gersonia, Director Quality & Compliance URMC Labs</i> <i>Maimoona Ramaswamy, Quality Systems Manager URMC Labs</i>	8:00-9:00 AM 1.0 CEU
Coffee Break	9:00-9:30 AM
E. <u>“Whole Slide Imaging and image analysis: Uses and limitations in academic anatomic pathology”</u> Brendan Boyce MD	9:30-10:30AM 1.0 CEU
F. <u>“Skeletal pathology: Tissue analysis-based preclinical study”</u> Michael Zuscik PhD	10:30-11:30 AM 1.0 CEU
Lunch/ Awards& Raffle	11:30-1:00PM
G. <u>“Human Papilloma Virus and Oropharyngeal Squamous Cell Carcinoma”</u> Ellen Giampoli MD	1:00-2:00PM 1.0 CEU
H. <u>“Mitigating Contamination in the H&E Process</u> Angie Cahill MBA, HT (ASCP)	2:00-3:00PM 1.0 CEU
Coffee Break	3:00-3:30PM
I <u>“Applying Best Practices for Lab Quality Assurance, Peer Review and Professional/Technical Practice Evaluations”</u> Phil Abrams <i>Executive Vice President, AccuCore Group</i>	3:30-4:30PM



Participating Vendors



Electron Microscopy Sciences



Thank you for your support!



NYSHS CALL FOR NOMINATIONS 2014:

The 2014 NYSHS Elections are coming up soon. The Election Committee is now accepting nominations for the following positions:

- President
- Corresponding Secretary
- Membership Secretary

Three Members of the Board of Directors

The member elected to serve as President will act as the executive office of the Society by presiding over all Society meetings, and serve on all committees except for the Nominating Committee. These committees include but are not limited to the Awards Committee and the Education/Scientific Committee.

The Corresponding Secretary is responsible for taking the minutes at all meetings of the Society. This position also entails the maintenance of Society records, and Society correspondence including meeting notices.

As Membership Secretary, one is responsible for keeping current the list of members, collecting dues and issuing membership cards.

The Board of Directors as a whole is responsible for the formation of the policies of the Society. The seats on the Board of Directors are held by the officers (President, Vice President, Secretaries and Treasurer), as well as 5 additional elected members and the immediate past-President. There shall be at least two meetings of the board of Directors called by the president each calendar year for the purpose of transacting business of the Society, including the planning of the Annual Symposium.

To be nominated to run for a position, one must be a member of NYSHS for at least one year and currently in good standing. Before nominating a member, please be sure they are willing to serve the Society for a minimum of a 2 year term. If you would like to nominate someone, fill in the nomination form below. There will be additional nominations forms available at the registration table at the 2014 meeting in Canandaigua and on www.nyhisto.com Forms can be left at the registration desk during the meeting or mailed to the address on the form. Forms MUST BE received no later than May 3, 2014.

Ballots for the election will be sent out in early June. Watch your mail and be sure to vote!!





NYSHS 2014 ELECTIONS

The Nominations Chairperson is accepting nominations for:

President

Corresponding Secretary

Membership Secretary

Three Members of the Board of Directors

To be nominated, he/she must be a member of NYSHS for at least one year and currently in good standing. They should have expressed a willingness to serve the society. If you would like to nominate someone, please fill in the nomination form below.

I _____ nominate
_____ for the NYSHS office of:

He/She has been a member of NYSHS for at least one year and is currently in good standing. He/She has also expressed a willingness to serve the society.

Nominator's Signature _____

**NOMINATIONS MUST BE RECEIVED NO LATER THAN
MAY 3, 2014**

Please return completed forms to:

- REGISTRATION DESK at NYSHS Meeting/Canandaigua
- Scan and email to Kathleen.caleri@roswellpark.org
Mail to K. Caleri, 57 Azalea Drive, West Seneca, NY 14224



“Keep this in your Site”

<http://www.webpathology.com/>

WebPathology is a free educational resource with high quality pathology images of benign and malignant neoplasms and related entities. It was launched in 2003 by Dr. Dharam Ramnani. It initially focused on urologic pathology and was subsequently expanded to include other organ systems. The site offers a visual survey of surgical pathology with emphasis on high-quality images. Each image is accompanied by a comment on pertinent clinical and pathologic features. WebPathology has become a valuable educational resource for pathology residents and trainees as well as practicing clinicians and allied health professionals around the world.

2014 NYSHS Spring Word Search

O P Y A U O E J Z X R O C E P I G J D W
N Q A O U I B S K U D O R C A N N J X G
H E A P Q G C S A Y N K C N T S I B O R
K G G Y I Y I Q R T P F D A H T G H R V
J V N I A L R A A I X E M I O R A Q G S
P F Y T T B L M D D L U L L V U M P Y N
Z L Z E C N I O W N P Z Z P O M I P K T
L G L W O N A V M M A Q V M G E P O M D
B I O S A F E T Y A D N S O Y N Y A Y K
S L A T E L E K S Z I W A C V T N T E H
S P I H S R O L O H C S G C I A Z D N V
X O Y R U T M G U S X N G L L T E W V N
N P G Y N Y G B H O I Z A Y M I O M H J
G F X S G M L B G K N U S K B O Z L Q U
S S Q Q Y F V E R H Q I K A R N T M M I
E J S F W H B O G T S A C L G K P M B T
L H Q Z D K W G P E W E C D Z D Q N Z Y
Z F B Q N T Z Q L V K W J B V N Y B U T
B M O V E N T O R S Q F A Z K A G M N W
J O M N V J E C Y M R C P V Y V I F M H

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CONTAMINATION
IMAGING
INSTRUMENTATION
NETWORKING
PAPILLOMA
PATHOLOGY
QUALITY
SCHOLARSHIPS
SKELETAL
VENDORS

Happy Searching...

NEW YORK STATE HISTOTECHNOLOGICAL SOCIETY

MEMBERSHIP APPLICATION



PERSONAL INFORMATION:

Name: _____
Address: _____

City: _____
State: _____

Zip Code: _____
E-mail: _____
Phone: _____ Home
Phone: _____ Work

Employer: _____

MEMBERSHIP INFORMATION:

Type of Membership: (check one)

- ☐ New
☐ Previous (date previous membership)
☐ Student (College name) _____

Instructor's signature _____

National Information: (check one)

- ☐ Member of the National Society for Histotechnology
☐ Non-Member
☐ Please send me an NSH application

Nature of Work: (check one)

- ☐ Clinical
☐ Research

Education (highest level): _____

- ☐ HT
☐ MT
☐ HTL
☐ Other _____

Referred by member: _____

Registration: (check one) Membership year runs from July 1 to June 30

☐ Education Annual Membership Fee (tax deductible): \$20.00

☐ Student Full Time Student Fee: \$7.00

Membership will expire June 30th,

Please send applications & check payable to NYSHS to:

Sarah Mack
NYSHS Membership Secretary
8162 Quanz Rd
Wayland, NY 14572

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Director			
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Word Search Solution:

O **P** Y **A** U O E J Z X R O **C E P I G** J D W
 N Q **A** O **U** I B S K U D O R **C A N N** J X G
 H **E A P** Q **G** C S A Y N K C **N T S** I B O R
 K G **G Y I Y I** Q R **T P F D A H T G** H R V
 J V N **I A L R A A I X E M L O R A** Q G S
 P F Y T **T B L M D** D L U L **L L U M** P Y N
 Z L Z E C N I O W N P Z Z **P O M I** P K T
 L G L W O N **A V M M A Q V M G E** P O M D
B I O S A F E T Y A D N S O Y N Y A Y K
 S **L A T E L E K S** Z I W **A C V T N T E H**
S P I H S R O L O H C S G C I A Z D N V
 X O Y R U T M G U S X N G **L L T E W V N**
 N P G Y N Y G B H O I Z **A Y M I O M H J**
 G F X S G M L B G K N **U S K B O Z L Q U**
 S S Q Q Y F V E R H **Q I K A R N T M M I**
 E J S F W H B O G T **S A C L G K P M B T**
 L H Q Z D K W G P E W E C D Z D Q N Z Y
 Z F B Q N T Z Q L V K W J B V N Y B U T
 B M O **V E N D O R S** Q F A Z K A G M N W
 J O M N V J E C Y M R C P V Y V I F M H

