



National Society for Histotechnology Region IX Education Day June 25, 2005 St. Paul's Hospital Vancouver, B.C.



Time: 8:00 a.m. – 5:00 p.m.
Place: St. Paul's Hospital
1081 Burrard, Vancouver, BC V6Z1Y6
(604) 682-2344

Level 1 New Lecture Theatre and Conference Room #6
(Located in the basement of St. Paul's Hospital)

Parking: available at St. Paul's Hospital & Sheraton Wall Center across the street from St. Paul's Hospital

General Information:

Registration: Pre-registration required!

Pre registration Deadline:
June 3, 2005

Registration awaiting fund approval will be accepted and held until June 25, 2005.

Cancellation Policy: Reimbursement of registration fees will be made only if cancellation notice is received by June 10, 2005.

Registration Table open:
7:00 a.m.

Make cheques payable to:

NSH Region IX

Mail registration form and cheque:

Attn: Rose Clarke

Laboratory

Burnaby Hospital

3935 Kincaid St.

Burnaby, B.C. V5G 2X6

Or

Attn: Mark Elliott

iCAPTURE Centre,

Room 166, St. Paul's Hospital

1081 Burrard St.

Vancouver, B.C. V6Z 1Y6

NSH & CSMLS Education

Credits: available to NSH members.

Breakfast, Coffee Breaks and Lunch

Breakfast: 7:30-8:00 a.m.

Coffee/tea/juice breaks:

9:45-10:15 a.m.

2:15 -2:45 p.m.

Lunch: 11:45 – 12:45

Exhibitors:

Welcome to all our generous sponsors for this day's event! We encourage all technologists to view the latest laboratory supplies and equipments and network with vendors and other members.

Exhibit times:

9:30 am – 5:00 p.m.

Room Reservations: Please make hotel arrangements directly with hotel.

Century Plaza Hotel & Spa

<http://www.century-plaza.com/>

Sheraton Vancouver Wall Centre

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

Holiday Inn Howe Street

<http://www.ichotelsgroup.com/h/d/hi/1/en/hd/yvrdt?irs=null>

Sandman Suites Davie Street

<http://www.sandmansuites.com/davie.asp>

Transportation: Burrard Skytrain stop is 7 blocks North of the hospital

Driving Directions: Go to Mapquest website to personalize your map

<http://www.mapquest.com/directions/main.adp>



Region IX Education Day
June 25, 2005
St. Paul's Hospital
Vancouver, B.C.

1. 7:30-8:00 a.m. Breakfast

2. 8:00 a.m. – 8:15 a.m.

Opening Remarks

Welcome

Janet Tunnicliffe, MLT, ART

Vice President, NSH

Introduction to Region IX Executive Officers

Rose Clarke, RT, M.A.

Director, Region IX

Introduction to the Day

Mark Elliott, PhD

Education Chair

3. 8:15 a.m. – 9:45 a.m.

The Meaning of Life, the Universe and Everything

for the Histopathologist

Bryan Hewlett, MLT, ART

With the advances in technology that are taking place in the laboratory environment one must become very familiar with the basics in the histopathology lab. These advances must make us re-think what we currently do. In this presentation we will look at these basics, starting with fixation, and how these basics may affect the work we do in the lab. This will provide an overview of modern histological techniques which are pertinent to the rest of what we will learn about today.

4. 9:45 a.m. – 10:15 a.m.

Coffee Break

Compliments of **Surgipath**

Networking at the Exhibitors' display booths

5. 10:15 a.m. – 11:45 a.m.

Quirks and Pitfalls of Doing IHC

Ethel R Macrea,

HT (ASCP) Q-IHC

Director Technical Applications Laboratory

Ventana Medical Systems Inc.

IHC is a complex set of conditions that cumulatively produce a stained outcome wherein an antibody is visualized at the point where it has bound to its

corresponding antigen. Problems persist because one or more of these steps become compromised or are outside the conditions that the antibody or detection system have been developed or optimized for. In many instances, Histotechnology has been evolving faster than IHC practices such as microwave tissue processing and phosphorylated forms of the antibodies. These are just a few things that impact overall performance of IHC. During this discussion, a number of these elements will be highlighted and reviewed.

6. 11:45 a.m. – 12:45 p.m. Lunch

Compliments of various sponsors listed on page 2.

Networking at the Exhibitors' display booths

7. 12:45 p.m. – 2:15 p.m.

Basic Molecular Biology ISH/FISH/CISH

Allan Rempel, RT, BMLSc, MSc,

Instructor, BCIT, Medical Laboratory Sciences

In the clinical histology laboratory, the common

method of analyzing specific nucleic acid

sequences, such as DNA tumour markers and

mRNA, is by *in situ* hybridization. *In situ*

hybridization employs labeled nucleic acid probes to

specifically bind localized nucleic acid targets within

cells of tissue sections. This type of hybridization

has the advantage of allowing us to assess cellular

distribution of DNA/RNA targets within specific cell-

types that are part of a heterogeneous cell

population; in turn, enabling cell-type specific

evaluation of disease-associated molecular changes

involving nucleic acids. Many are probably

wondering: How is *in situ* hybridization performed?

What makes one target or one probe different from

any other? Are paraffin tissue sections suitable for

in situ hybridization? How do relatively large nucleic

acid probes gain access to their tissue-bound

targets? Does the manner of tissue fixation affect

probe access and hybridization? How do probes

recognize their specific targets? When they do find

their targets, what allows them to hybridize? How do

we detect the hybridization? Is non-specific

hybridization an issue? If so, how do we avoid it or

eliminate it without affecting specific hybridization?



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8. 2:15 p.m. – 2:45 p.m.

Coffee Break

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Networking at the Exhibitors' display booths

9. 2:45 p.m. – 3:45 p.m.

Steven J. Kussick, MD, PhD

Phenopath Laboratories

Seattle, Washington

Molecular Analysis of Tumors Using Quantitative Fluorescence *In Situ* Hybridization

This presentation will review the use of quantitative fluorescence in situ hybridization (FISH) for both making diagnoses and assessing prognoses of tumors present in paraffin-embedded, formalin-fixed tissue. The basic principles of performing FISH will be described. The Metasystems Image Analysis System used for the evaluation of the FISH data will be described in detail and compared to manual FISH evaluation, particularly in relation to HER-2/neu gene amplification studies. Additional neoplasms detectable by FISH will be described, including synovial sarcomas [t(X;18)], PNET/Ewing's sarcoma [t(11;22)], follicular lymphoma [t(14;18)], mantle cell lymphoma [t(11;14)], and Burkitt's lymphoma [t(8;14)]. The sensitivity and specificity of FISH for the diagnosis of these neoplasms will be estimated, and compared with the sensitivity and specificity of conventional histologic and immunohistochemical evaluation of these tumors.

10. 3:45 p.m. – 4:00 p.m.

Closing Remarks

Fill out Speakers' Evaluation forms

Mark Elliott, Education, Chair

11. 4:00 p.m. – 5:00 p.m.

Last minute visit to Vendors Display

Thank You...to our generous Sponsors who believe in the Education of our Region IX members!

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