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# PARATINALIA

http://www.hgv.org.au

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October 2011

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Editor: Elizabeth Baranyai

"The HGV aims to provide a dynamic continuing education program in which all persons with an interest in Histology and Histotechnology are freely invited to participate.

#### **Committee Page:**

The members of the Histology Group of Victoria 2010-2011 are:

Name	Institution	Phone
Judy Brincat	Dorevitch Pathology	9244 0351
Maria Chavez	Monash Medical Centre	9594 3493
Elizabeth Baranyai	Cabrini Health	9508 1263
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Michelle Zammit	The Alfred Hospital	9076 3088
Nguyen-Hoang, Nguyen	Peter MacCallum Cancer Centre	9656 1844
Kristy De George	Austin Pathology	9496 5692
Adrian Warmington	St. John of God Pathology (Victoria)	5320 1171

Please feel free to contact any of the committee members listed above with any comments or suggestions. Contributions are always welcome.

#### Advertising:

All enquiries for trade advertising in the next edition, please contact: Kristy De George - trade@hgv.org.au

Advertising for the next edition of Paraffinalia closes: 1st February, 2012

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#### **Articles & Reports:**

Author enquiries and readers wishing to contribute articles or reports can contact the Editor - editor@hgv.org.au

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#### FROM THE SIDELINES

Footy season is over, the Spring Racing Carnival is imminent, so is our AGM, which will take up all of 10 minutes at most at our next scientific meeting. Do you have something to contribute to the running of the Histology group of Victoria? Consider joining the committee. A nomination form appears in this edition of Paraffinalia.

The National Histology Meeting is being held at Rosehill in Sydney on November 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup>. Earlybird registrations have closed, but you may still be able to register if you're quick.

Apologies to all those confused people who read 'Under the Microscope' last edition, and are now wondering how Mark Bromley's twins are doing. The true subject of last edition's UTM was Mark Williams, the piece was submitted by Mark B. It is correctly repeated this edition, and applies to Mark Williams. Apologies also to both Marks!

Don't forget, if you have any suggestions for speakers or topics for our bi-monthly scientific meetings, please contact the committee. Likewise, if you would like to contribute to Paraffinalia, contact the editor Liz.

Judy Brincat

#### Scientific Meeting Review - Further Education Possibilities for the Histologist

Continuing Education and Competency seem to be the hot topic in the broader pathology community at the moment with a lot of discussion around what qualifications and experience are needed for senior positions in Pathology.

Hence our timing of this meeting was impeccable to provide our Histology community with current information on what further education is available to develop our knowledge and careers and also the benefits of doing so.

We were privileged to hear from three speakers: Rosemary Savino, Piero Nelva and Yvette Beaber all from Monash Medical Centre.

#### Medical Scientist Continuous Education: Rosemary Savino

"Striving for excellence is a framework of continued improvement –learning from today's experiences to enhance tomorrow's performance."

Striving for excellence: Fiona Wood- Aust Of the Year 2005 Addressing the AIMS NSM Sydney, Oct. 2005

Continuous education: to always strive for excellence. From which we will achieve continuing improvement, updating our skills, enhancing knowledge, sharing experiences and networking.

#### What Continuing Education can we do?

- Do further studies (masters, PhD, fellowship etc.)
- Attend professional meetings eg ASC,HGV, AIMS
- Read professional articles
- Professional development material from a professional organisation eg ASC, HGV, AIMS

#### **Professional Organisations:**

- Provide continual professional development eg conferences, journals
- Development, monitor professional educational programs eg. Uni courses
- Advance the profession
- Communicate with like societies
- Protect the public setting & maintaining standards
- Reward you with certification (eg AIMS with APACE certificates)

#### The Benefits of Participating in Continuing Education:

- Enhancing our performance and that of our colleagues and co-workers
- Contributing to the enhancement of our pathology service
- Contributing to better patient outcomes
- Fulfilling NATA requirements
- Rewarded with certification

#### AIMS Fellowship-A Personal Experience: Piero Nelva

#### What is it?

Post graduate qualification

The Fellowship is recognised by the National Pathology Accreditation Advisory Council of the Department of Health and Ageing as equivalent to a PhD for meeting the requirements for supervision of category GX and GY laboratories.

#### Requirements?

- Member of AIMS (minimum of 2 years)
- However Piero's 20 years of experience in the industry he thought was a more realistic requirement for the knowledge and work involved!

#### How is it done?

- Flexible staged process (Piero nominated to complete the fellowship over the maximum time of 10 years)
- Modular examination

#### Two compulsory modules

#### AP1 Laboratory Histology

#### Content

- The significance of investigations and the role of the histopathology laboratory in diagnosis and treatment of disease.
- In depth knowledge of the preparation of tissues for light and fluorescence microscopy
- The chemistry, principles and practice of fixation and decalcification
- Tissue processing technique.
- Paraffin and resin embedding.
- Microtomy and Cryotomy.
- The chemistry, principles and methodology of histological and histochemical staining.
- Sound knowledge of
- The histological structure of tissues and organs at both the light and electron microscopic level.
- Laboratory organisation
- General management principles.
- Quality management including laboratory performance indicators.
- Organisation, implementation and maintenance of safety practices and processes in the histopathology laboratory.
- Laboratory accreditation procedures applicable to the histopathology laboratory.
- Laboratory recording and indexing systems.

•

Piero's essay question was 'What is the theory of staining'.

#### AP2 Specialised Histopathology

- Understanding of pathological processes and knowledge of the histological changes seen in disease.
- An in-depth knowledge of the theory, practice and applications of immunohistochemical techniques and antibodies used for immunohistochemical diagnosis of disease.
- The handling of specimens at the surgical "cut up" according to NPAAC guidelines.
- Knowledge of museum technology.
- Knowledge of mortuary management
- Knowledge of flow cytometry

#### Objective.

 To understand pathological processes and the microscopic changes seen in disease and the role of immunohistochemistry in the diagnosis of disease.

Piero gave us examples of his exam questions:

 Mediastinal mass. What possible origin of tumour and once decided, what IHC to further subclassify the tumour.

Peiro wrote on lymphoma.

- Name 5 IHC detection systems.
- Two Elective modules, choose from:
  - Electron Microscopy
  - Image Analysis and Macroscopic and Microscopic Photography
  - Molecular Biology

Piero chose to do Electron Microscopy and Image Analysis and Macroscopic and Microscopic Photography.

- Assessment by 3 hour written exam for each module
  - 2 essay questions
  - 20 short answer
- Viva Voce
  - Panel discussion
  - Microscopy
  - Normal histology
  - Basic pathology

Piero described his experience of the Viva Voce as 'very draining', they asked him questions on a broad subject then got more specific until he didn't know the answer!

- The Scientific Dissertation may take the form of:
  - A review,
  - Development of a hypothesis,
  - Any other presentation which meets with the approval of the Examinations Council.

Piero was a co-author of a journal article which was accepted for his dissertation.

#### **Resources:**

- Bancroft & Stevens especially the earlier editions for more dated histological subjects such as Electron Microscopy.
- Journals to stay up-to-date with new techniques and topical developments.

#### The Mentor:

- A mentor should possess a Fellowship of AIMS
- Have experience relevant to the area in which the Fellowship is being undertaken.
- The mentor is not intended to be a teacher

#### The Outlay:

- \$1500
- A candidate who is unsuccessful can repeat any module or the viva voce examination by reapplying and paying the enrolment fee.

#### The Return:

• Higher qualification allowance of 10% of the Grd 1 Yr2 rate, currently approximately \$100 a week (full time).

#### Why did Piero do it?

For his love of Histology and his vision of Histology in the future! Immunohistochemistry has been very significant in the development of Histology in the past 10-15 years and will continue to be in the future.

For more information and essay question examples please refer to the AIMS website.

#### Masters of Medical Science (Pathology): Yvette Beaber

#### Why do further study?

- Further your knowledge and skills
- Exposure to management subjects
- Research and a journal publication
- To further your career (Grade 2/3)
- Increase in pay

#### Where is it offered?

- Charles Sturt University: On-line. Wagga Wagga, NSW
- RMIT, Bundoora campus, VIC

Yvette chose to study at Charles Sturt University over 4 years.

#### The Outlay:

- Charles Sturt University \$ 15,600
- RMIT \$43,000

#### The Return:

• Higher Qualification Allowance of At completion of 7.5% of the base rate, currently \$75 a week.

#### The Course:

- 96 points: comprised of 64 points of coursework subjects and a 32 point dissertation.
- Part-time, 4 subjects per year of course work
- It is possible to extend the study time and do 2 subjects per year (5 years to complete the course).

#### Compulsory course work

- Management of Health and Aged Care Services
- Laboratory Quality Control
- Integrated MLS
- Processes of Pathology
- Biomedical Research Methods
- BMS508 Research Proposal

#### Elective course work

- Cytogenetics for Genetic Counsellors
- Genetic Engineering and Bioinformatics
- Immunology
- Clinical Bacteriology Virology, Mycology &
- Parasitology
- Advanced Haem and blood Transfusion
- Bioethics
- Perspectives on Health Care Systems
- Human Resources Management
- Epidemiology and Public Health
- Strategic Information Management
- Science and Society
- Ethics, Law and Medical Science

#### The Dissertation

- Research Proposal
- Ethics approval
- Literature review

#### Detection Of Lymphatic Invasion In Breast Core Biopsies Using D2-40 Immunohistochemistry

#### What is D2-40?

A monoclonal antibody that identifies Podoplanin D2-40 stains lymphatic endothelium but not blood vessels Allows for the easier detection of lymphatic invasion.

#### • Lymphatic Invasion:

Before D2-40  $\,$  lymphatic invasion was identified by the examination of routine H&E.

This method has a number of severe limitations including;

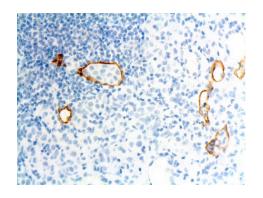
- Obliteration of the lymphatic lumen by tumour emboli
- Difficulty in differentiating retraction artefactual changes from true lymphatic invasion.

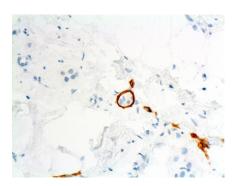
#### • The Cohort:

- 84 patients with lymphovascular invasion detected on excision biopsy that also had a core biopsy with equivocal or no lymphovascular invasion.
- A block that had what was thought to be lymphovascular invasion was selected, along with the block from the core biopsy for staining.
- CD31, D2-40 and H&E stains were performed on the core biopsy and the block chosen from the excision biopsy of each patient.

#### • The Results

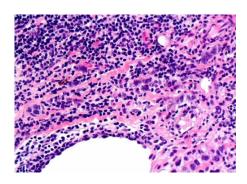
Excision		Core	
<b>D2-40</b> (n=8	31)	<b>D2-40</b> (n=84	)
Negative	48.	Negative	66.7
Positive	51.9	Positive	33.3
<b>CD31</b> (n=81	.)	<b>CD31</b> (n=84)	
Negative	86.4	Negative	84.5
Positive	13.6	Positive	15.5

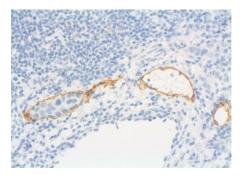




#### • Problems with staining:

- D2-40 also stains the myoepithelium in breast tissue.
- This can lead to false positive results
- CD10/p63 staining is used to counteract this problem





#### Conclusion:

Using D2-40 we were able to increase the detection of lymphatic invasion in core biopsies allowing the earlier detection. This may have an effect on patient management.

In 33.3% of core biopsies lymphatic invasion was detected using D2-40 IHC that was previously reported as negative.

#### **Reviewed by Kristy De George**

#### NSH CINCINNATI USA 2011

NSH stands for National Society for Histotechnology. Every year, somewhere in North America a Symposium/Convention is held. This year it was Cincinnati, Ohio's turn to host the event. As is stated on the front cover of the Registration brochure "The NSH Symposium and Convention is *the* event for histotechnologists to discover new methods, share best practices and preview the latest industry vendors have to offer." This was the first time I had attended, the realisation of an almost career-spanning goal, which was just to attend, however, thanks to a huge amount of assistance and support from Geoff Rolls, the abstract I submitted to present a three hour workshop was accepted. Cincinnati here I come!! It was a huge amount of work, gathering and organising enough material to keep the captive audience awake and interested for three and a half hours (there's a half hour break in the middle). I was relieved to see that most of the 50 or so registrants for my workshop did return after the break.

The trade show is massive.



The picture shows the set-up phase, surprisingly, it only ran for just over 2 days, which seemed a lot of effort for such a short time. To really do it justice, at least half a day would be required. As well as the large multinational companies to which we are no strangers here in Australia, there are many, many local companies specialising in all aspects of the Histotechnology market.

The scientific program was extensive and varied, it really covered everything, with at least 10 workshops running concurrently from Saturday through to Wednesday, 121 in all. There were about 1100 delegates! The scale of this meeting is unparalleled here, we don't have the population to support it. Of course, there were delegates from all over the world, I found 6 other Australians (3 others from Melbourne), and I heard many different accents during the course of the Symposium. Topics were graded from Basic, through Intermediate to Advanced, and included clinical and veterinary research, career development, immunohistochemistry, leadership, molecular techniques, regulations, safety, specialised topics such as Mohs, and techniques and fundamentals including trouble shooting, grossing (cut-up) and staining methods. The presenters themselves were a mix of pathologists, managers, veterinarians, scientists, technicians and educators. There were also posters on display.

Any meeting involving histologists would not be complete without a full social program, and this was no exception. Leica hosted a "Night at the Museum", where all were treated to abundant food and beverages, live music and two museums to choose from. To the best of my knowledge, no-one actually got to spend the whole night there.

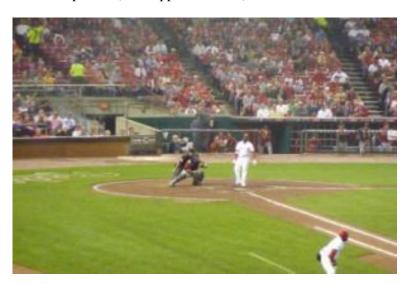


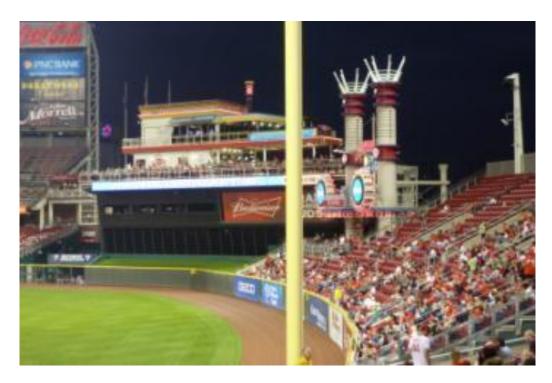
The Awards Banquet was held on the Sunday night, and again delegates wined, dined and danced the night away.

Roche (Ventana) hosted a party at the aquarium, which was actually across the Ohio River in Kentucky where guests mingled and enjoyed discovering the myriad of aquatic life on display. The gift shop was a major temptation to one or two hapless lads:



The duel was declared a draw, and both went on to enjoy they evening to the full. Perhaps the highlight of the social events, well at least for me, who had never been to a baseball game, let alone one at the "Great American Ballpark" was the night at the ball game, to see the Cincinnati Reds dispose of the Huston Astros quite convincingly. Apart from being a little damp, it was an exciting spectacle, each time the home team scored a home run, fireworks exploded (this happened twice!)





All in all, the entire event was a memorable experience, and one I would like to repeat given the opportunity. What would I do differently next time, if there is one? Leave myself more spare time than I did, my program was pretty full, and didn't allow enough time for the trade or posters; and not register for as many 8 0'clock starts as I did, or go to bed earlier!!

Next year its Vancouver's turn, its not a particularly cheap exercise, even with the \$A so strong against the greenback, but well worth considering should the opportunity arise.

Judy Brincat

# Mark Williams Senior Scientist Anatomical Pathology Melbourne Pathology

#### 1. What was your first job?

Delivering the afternoon edition of the Herald newspaper in my local area when I was 14 years old. My first job in the industry was as a trainee scientist in Cytology at the Repatriation General Hospital in Heidelberg.

#### 2. What attracted you to Histology?

After beginning my training in Cytology at the Repat, I then moved into Histology at Box Hill Hospital. The decision was made!

#### 3. What is the worst decision you have ever made?

Where to start???

#### 4. What is the best decision you have ever made?

To holiday in Mauritius in 2007/2008.

#### 5. Who would you most like to have dinner with and why?

Toss up between Jessica Alba and Eddie McGuire.

#### 6. What music do you enjoy listening to?

I don't have any real favourites. I enjoy bits and pieces from many genres.

#### 7. What is your favourite stain?

Would have to be the good old retic.

#### 8. What is your favourite food/Restaurant?

Favourite food is Vietnamese. Any restaurant that serves a good bun bo xao tops the list.

#### 9. What are you reading at the moment?

Baby's first year.

#### 10. What is the best conference you have ever attended?

There was an AIMS conference down Gippsland way somewhere around 1992. My best recollection is that it was a cracker!

#### 11. Are there any current projects you are working on at the moment?

Raising twin 6 month old boys!

# **Next Scientific Meeting:**



# Molecular Techniques – KRAS/BRAF Testing & HGV AGM

Speaker: Chelsee Hewitt

**Peter MacCallum Cancer Centre** 

**Date:** Thursday 17<sup>th</sup> November, June, 2011

**Time:** 6:00 – 6:45 Refreshments

6:45 – 7:30 Presentation

Venue: Peter MacCallum Cancer Institute

7 St. Andrews Place

East Melbourne

**Presentation:** Brockhoff Lecture Theatre

Level 3, Smorgan Family Building

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Attendance at this meeting contributes to APACE points



# **Future Events:**

2011

Org. No. A0035235F

#### 12th - 14th March

Coonawarra Joint Meeting HGV/HGSA Venue – Coonawarra, South Australia

### 5<sup>th</sup> May

HGV/ASC Scientific Meeting Student Presentations
Venue PeterMac

#### 30<sup>th</sup> June

Scientific Meeting The Victoria Cancer Biobank
A Consortium of Tissue Banks supporting Cancer Research & Clinical Trials
Speakers: Katie-Lee Alexander (St. John of God Pathology/Pathcare)

Matthew Chapman (Royal Melbourne Hospital)

Venue PeterMac

## $22^{nd} - July$

Social Event – Trivia Night Venue – Mount Erica Hotel

## 15<sup>th</sup> September

Scientific Meeting - Further Education Possibilities for Histologists

Speakers: Piero Nelva (Monash Medical Centre)

Yvette Beaber (Charles Sturt University)

Rosemary Savino (Monash Medical Centre)

Venue PeterMac

# 4<sup>th</sup> – 6<sup>th</sup> November

National Histology Conference Sydney

## 17<sup>th</sup> November

Scientific Meeting/AGM – Molecular Techniques (KRAS/BRAF)Venue – PeterMac



# Nomination Form for Election to the Committee of Management of the Histology Group of Victoria Inc.

Thursday 17<sup>th</sup> November, 2011 Peter MacCallum Cancer Centre

Nominated Person		
Institution		
Email Address		
Position Nominated For	President	
(Please tick box)	Treasurer	
	Secretary	
	Committee Member	
All nominations must be signed (If you receive Paraffinalia you a	· ·	
Name of Member	Signature	
Name of Member	Signature	
Nominations must have the con	nsent of the nominee	
Signature of Nominee		
Nominations must be returned	no later than Thursday 10	th November, 2011.
Please send nomination form to:		
The Secretary	Scanned and em	ailed to
Histology Group of Victoria	secretary@hgv.o	org.au

Collingwood, VIC 3166



# Horses for Courses FIFTH NATIONAL HISTOTECHNOLOGY MEETING

**4-6 NOVEMBER 2011** 

## **Hosted by**



# **HISTOTECHNOLOGY GROUP of NSW**Celebrating 30 years of Histotechnology

#### Postal address:

P.O. Box 496

**GUILDFORD NSW 2161** 

31 March 2011

#### Dear Member,

The Histotechnology Group of NSW invites you to attend the next National Conference which is to be held at Rosehill Gardens, Sydney, 4-6 November 2011. Rosehill Gardens is one of Sydney's premier horse racing centres. This weekend is an excellent opportunity to meet your fellow Histotechs from around Australia and from further afield. We are expecting over 300 delegates.

There will be two **Gross Dissection** workshops on Friday 4 November run by Anne Prins and Penny Whippy at nearby Granville TAFE. Numbers for the Gross Dissection workshops will be limited.

There will be two separate on site workshops - **Histo Hypotheticals (morning)**: an interactive workshop which will present problems that affect the quality of our results and participants will be encouraged to advise suitable courses of action; and **Histochemistry (afternoon)**: a 'wet' workshop exploring alternative staining procedures (Microwave technology, detergent de-waxing.......). The workshops will be led by Tony Henwood and Linda Prasad from The Children's Hospital at Westmead. These will be held once only, so that if you want to attend a cut up workshop, you will need to choose which of these you would like to attend.

The preliminary program for Saturday and Sunday includes an international speaker as well as a speaker from the Brain and Mind Research Institute and speakers on Lymphomas, Haematoxylin, Molecular Pathology, Moh's surgery, Skin Cancer, Case studies in bone tumours, Breast pathology, Colorectal pathology.

There will be a significant trade display with a large number of companies being represented and prizes for posters and abstracts.

Also a gala dinner has been arranged for Saturday night at Rosehill Gardens costing \$74. You might like to dress for the occasion: 'Horses for Courses' is our theme, just a few days after the Melbourne Cup. There will be a prize for the best race call.

Accommodation is not included in your registration fee but rooms have been reserved at Rydges Hotel at Parramatta (across the road from the venue). Please contact Rydges via our Website linkage (<a href="www.rydges.com/cwp/histotechnologyconf">www.rydges.com/cwp/histotechnologyconf</a>) or direct on (02) 8863 7600 to book and pay for your own accommodation.

Your registration includes all meals **except** breakfasts and Saturday dinner.

Saturday and Sunday registration: early bird, before 31 August 2011 \$310

after 31 August, before 4 October \$340

Single day registration: early bird, before 31 August 2100 \$210

after 31 August, before 4 October \$230

Each workshop will cost an **additional** \$50 and includes morning or afternoon tea plus lunch for Friday.

Payment can be made by cheque to "Histotechnology Group NSW Conference" or via internet, but you **MUST** complete all details on the internet so we know who is paying and **return your completed registration form** for early bird registration by 31 August 2011 or by 4 October 2011:

mail to PO Box 496, Guildford.NSW. 2161 or

email to kdrummond@dhm.com.au or

fax to (02) 9855 5169

BSB:802 084; Account number: 94099; Account name: Histotechnology Group of NSW.

Prices include GST.

Further conference information is available on our Website (www.histonsw.org.au) or by contacting:

Kathy Drummond Phone: (02) 9855 5059

E-mail: kdrummond@dhm.com.au

or

Trevor Hinwood Mobile: 0427 249 794

E-mail: <u>trevor.hinwood@hdscientific.com.au</u>

We look forward to seeing you at Rosehill in November.

Yours sincerely,

Kathy Drummond (Hon Secretary)



<u>HISTOTECHNOLOGY GROUP of NSW</u> (ABN 63 128 868 343) <u>www.histonsw.au</u>

# Histotechnology Group of NSW National Histology Conference 2011

Name:		
Address:		
Is this address work□ or home□?		
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Histo Hypotheticals		\$
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Sunday only		\$
Saturday registration		\$
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Saturday night dinner: delegate		\$
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