



Histology Group of Victoria Inc.

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PARAFFINALIA

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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

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

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All enquiries for trade advertising in the next edition, please contact: Samantha Arandelovic-trade@hgv.org.au

Advertising for the next edition of Paraffinalia closes: **1st June, 2015**

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

Please email articles (preferably Microsoft Word format) for inclusion in the next edition to editor@hgv.org.au
All items submitted for publication will then become the sole property of the Histology Group of Victoria Inc.

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BLURB FROM THE BUSH

What a fabulous attendance at our first scientific meeting for the year. This is the second successive year we have split away from the ASC to develop a purely histological series of student presentations. This along with ensuring the topics are interesting rather than simply a run of the mill case study has boosted attendance greatly.

The next scientific meeting should be well attended also. Whilst on the surface it may seem like a dull topic, the ethical considerations to referring tissue and the legal requirements with respect to ownership is essential information for all diagnostic scientists.

The committee is currently on a year of revamping. The new web site is almost ready to go live. The newsletter is next on the list to get a face lift, followed potentially by the HGV logo. In addition we are looking to make the newsletter content more interesting for the regular punters. We are introducing case studies and histology images for submission with the best being rewarded at the end of the year. Look into this edition for more information.

The National meeting is upon us. Email information will no doubt come thick and fast over the next few months. The program is looking fantastic, and Queensland invariably delivers great weather for us southerners.

Lastly I would like to mention trade. Over the past few years trade has provided great support to the HGV. The interest in sponsorship and advertising has never been greater. We are trying to provide as much opportunity as possible for trade to sponsor events such as the trivia night and select scientific meetings. The committee is also very conscious of ensuring that all editions of Paraffinalia are not overwhelmed with advertising. This will be subjective, but your feedback regarding the advertising quantity is always valued by the committee. (editor@hgv.org.au)

Adrian Warmington
HGV President

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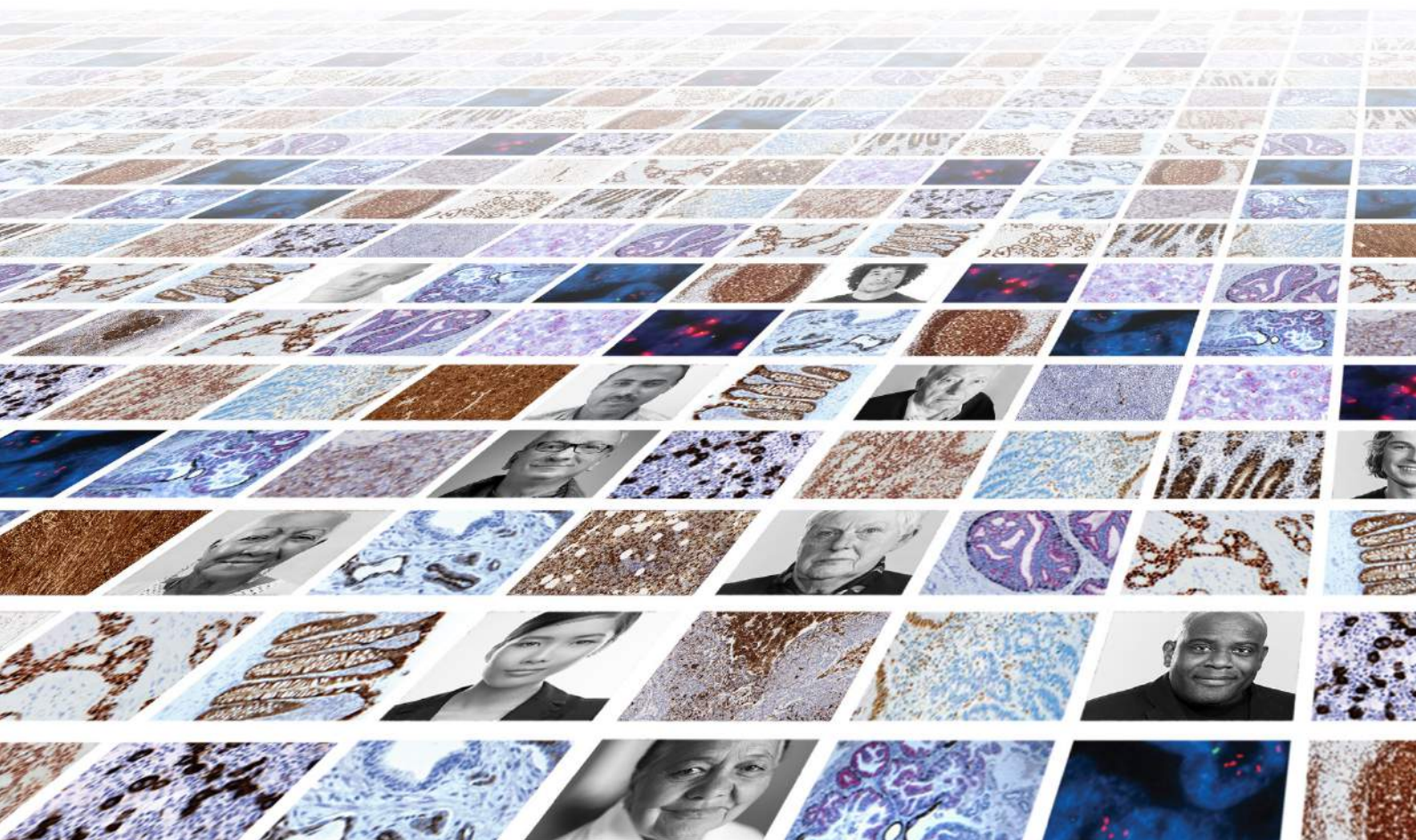
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Under the Microscope with Danka Mijatovic

**Anatomical Pathology
Grade I Scientist
Royal Children's and Women's Hospital**

What was your first job?

A fruit and veg market. I was about 17 years old when I first started working casually at the market and I am still there on some weekends.

How long have you worked in histology?

It has been about three years now. I started off as a bursary student from RMIT. In that time, I had the opportunity to experience the big move from the old RCH to the new one. Working at two different sites has its advantage. I love having a variety of work. It definitely makes work more interesting.

When people ask, "So, what do you do?" How do you explain Histology?

I find that if you tell someone you are a medical scientist they only hear the 'medical' part and think you are an impressive doctor. I tend to dumb it down a tad for those who don't have a scientific background. So, I tell them I work with tissue and biopsies from patients.

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

Jessica Alba is one that comes to mind. I envy her success with career and family.

What is your all-time favourite movie?

Something I can laugh watching every single time. White Chicks or Bridesmaids are definitely ones on that list.

What is your favourite stain?

PAS. It rarely fails and stains so pink.

What is your favourite food/Restaurant?

I love Japanese food. Nobu is one of my favourite restaurants in Melbourne. Luckily enough I spent 2 weeks in Japan last September!

What is the best conference you have ever attended?

I have only been to the HGV conferences so far. In June I will be heading to Brisbane for the 7th National conference, so that is something to look forward to.

Favourite beverage?

Coffee! No doubt about it.

What is your dream holiday destination and why?

Alaska. I can already picture myself relaxing in a spa and the icy cold background all around me.

Reported by: Kellie Vukovic
Peter Mac



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Article Review by Tania Marsden

Expression profile of mucins (MUC1, MUC2, MUC5AC and MUC6) in ovarian mucinous tumours: Changes in expression from benign to malignant tumours.

Jayson Wang & Mona El-Bahrawy.

Histopathology 2015 Vol 66 pg 529-535. DOI:10.1111/his12578

Mucins (MUCs) are a large family of glycoproteins expressed by epithelial cells. MUCs can serve a variety of functions depending on their location. MUCs can be secreted (MUC2, MUC5AC and MUC6) or membrane bound (MUC1). MUC expression has been correlated with tumour grade, stage and prognosis.

Ovarian neoplasms are a heterogeneous group of tumours with 90% of them being epithelial in origin. Ovarian Mucinous tumours (OMT's) account for 10-20% of all ovarian tumours.

53 Patients with OMT diagnosed by the Department of Histopathology, Hammersmith Hospital, London between 2005 and 2013 were reviewed and a tumour block selected. The tumours included 19 malignant tumours, 25 borderline tumours and 9 benign cystadenomas.

MUC1, MUC2, MUC5AC and MUC6 expression was evaluated by immunohistochemistry performed on an automated Leica Bond 3 according to the manufacturer's protocol.

All sections were examined for the presence of expression and cellular distribution of the proteins (between the apical cell membrane, goblet cells and cytoplasm) in the different tumours. Cell staining intensity was scored as Negative (0), weak (1+), moderate (2+) and strong (3+).

MUC1 staining was seen in a small proportion of cells in the atypical membrane. There was no significant difference in staining between tumour groups (benign, borderline and malignant).

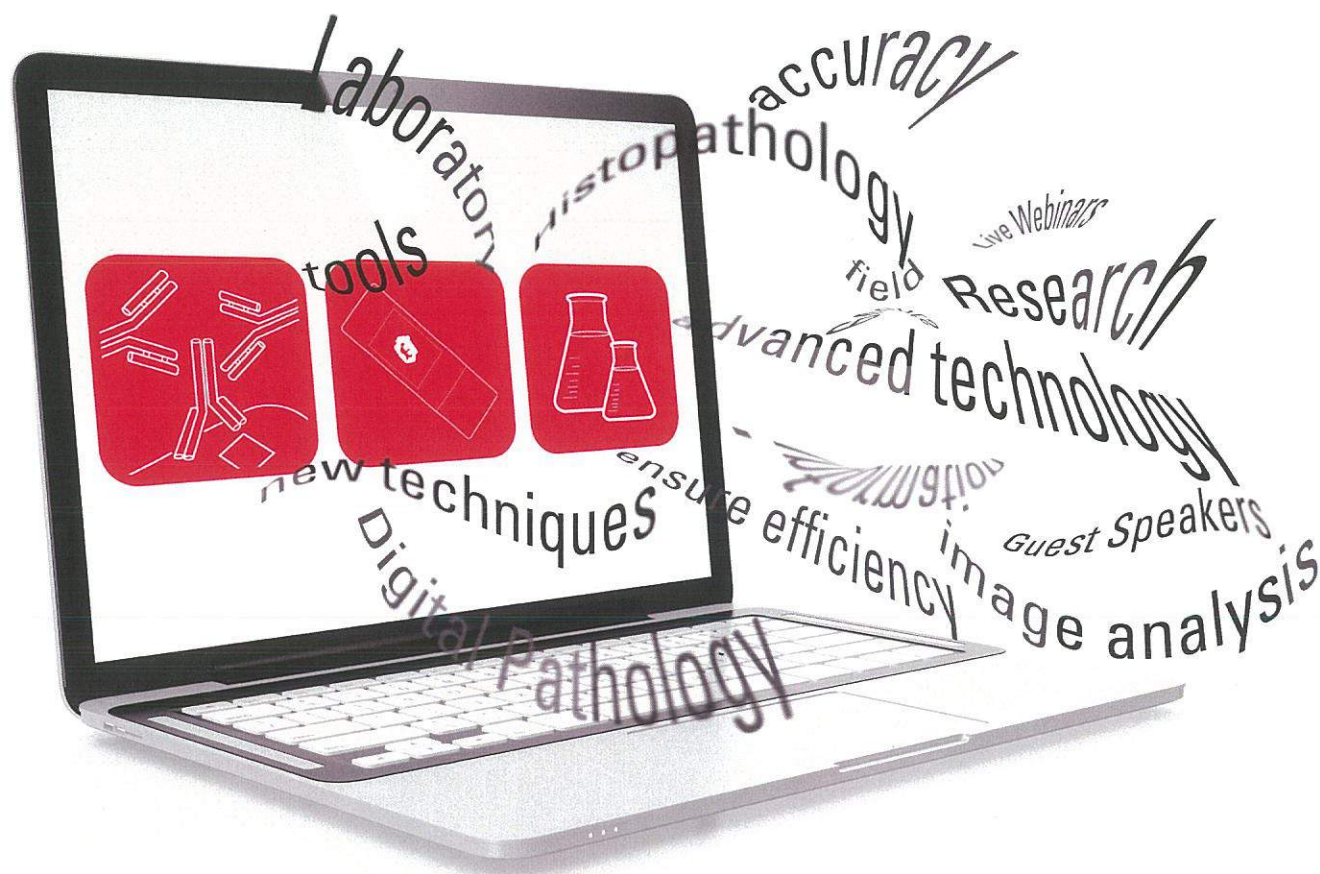
MUC2 showed positive staining in a few scattered goblet cells. A significant increase in staining was seen between benign and borderline groups (0% and 40% respectively) and benign and malignant groups (0% and 42.1% respectively). There was no difference in staining between borderline and malignant groups.

MUC5AC showed strong and generally diffuse cytoplasmic staining in most cases. There was no significant difference in staining between groups.

MUC6 showed cytoplasmic staining and showed a significant decrease in staining between groups. Benign and borderline groups (66.7% and 16% respectively) and benign and malignant groups (66.7% and 26.3% respectively). There was no difference in staining between borderline and malignant groups.

This study showed that there was no significant difference between groups for MUC1 or MUC5AC expression. However borderline and malignant OMT's were more frequently MUC2 positive and less frequently MUC6 positive than benign OMT's

It is the first to show that MUC6 down-regulation is associated with tumour progression in OMT and MUC2 expression increases with tumour progression in OMT. This could lead to potential therapeutic targets in OMT which are known to respond poorly to conventional chemotherapy.



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Advanced Staining Reagents App for iPad

The Leica Biosystems IHC antibody catalogue is an app for Laboratory Managers and pathologists looking for both routine and innovative IHC antibodies and consumables.

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- » Search over 1,500 IHC antibodies, BOND reagents and consumables
- » Full colour annotated images and educational background
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Download instructions:

1. Go to the Apps Store or Google play on your device.
2. Type "Leica Biosystems" into the search function.
3. Download.



HGV TRIVIA NIGHT 2015

Date: Friday 14th August

Time: 6.30pm-10.30pm

Location: The Metropolitan Hotel
263 William Street
(corner Lt Lonsdale Street)
Melbourne VIC 3000

Price: \$25 per person
(Tables of 10)

Including: sit down dinner, one house beer/wine/soft drink, Trade sponsored prizes and rounds with a professional host

Additional drinks at bar prices.

Payment and food orders due by **Friday 10th July**. Please be quick as tables are limited and sold on a first in best dressed basis!
(Menu to follow at a later date)

Limited street parking is available or it is only a short walk to Flagstaff Station.



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Email: kellie.vukovic@petermac.org

Mail: Attention: Kellie Vukovic
Peter MacCallum
Level 1 Smorgan Family Building
Crn St Andrews Place and Lansdown St
East Melbourne 3002

Cheque/Money Order (please make out to 'Histology Group of Victoria')

Direct deposit (please leave name as a reference)

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BSB: 063 449
Account no.: 10065881

Please forward this information to Kellie Vukovic via mail or email listed above after payment.

Name of Institution: _____

Contact Name: _____

Contact Number: _____

Contact Email: _____

Number of people on table (Max 10): _____

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HGV Most Interesting Case Study Competition

The HGV is seeking submissions of interesting case studies from your Laboratory!

Case Studies will be printed in Paraffinalia each edition.

There will be a prize of \$250 for the most interesting case study of 2015.

The winner will be announced in the first edition of Paraffinalia 2016 and the prize presented at the first scientific meeting of 2016.

Maximum of 2 pages including images and referencing.

Please submit all case studies electronically to editor@hgv.org.au

Example Case study by Kerrie Scott-Dowell

Clinical Notes

29 yo patient presents with mass in left testis

Specimen

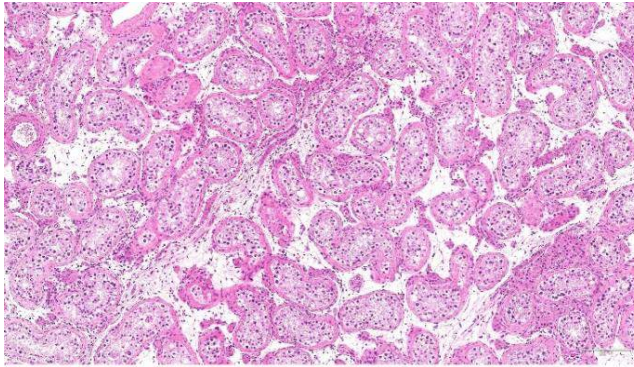
An orchidectomy specimen with an oval mass on the lateral aspect. No tethering of the overlying tunica. Sectioning shows a white nodule 10x5x4mm within what appears to be normal testicular parenchyma. It is irregular defined and not well circumscribed by a capsule. The tumour does not macroscopically extend to the epididymis. Representative sections taken

Microscopy

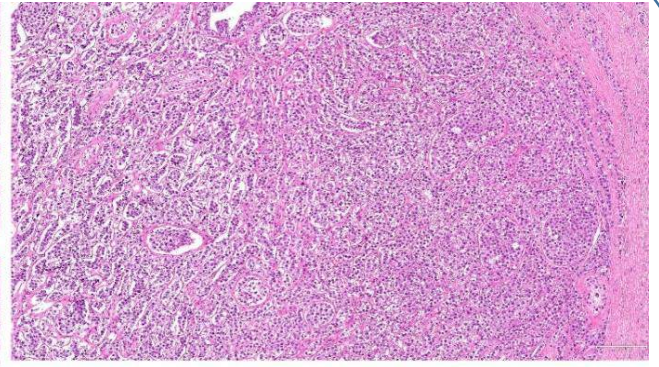
Sections show that within the testis there is a seminoma. It consists of uniform cells arranged in sheets or clusters separated by fibrous trabeculae. There is a mild lymphocytic infiltrate at the periphery of the tumour. No granulomas are seen. There is intratubular infiltration. The bulk of the tumour mass is composed of intratubular germ cell neoplasia with the seminiferous tubules away from the main tumour distended with and replaced by tumour cells. There are some occasional remaining seminiferous tubules still showing normal spermatogenesis. There is lymphovascular invasion, but no involvement of the spermatic cord and tunica albuginea.

Conclusion

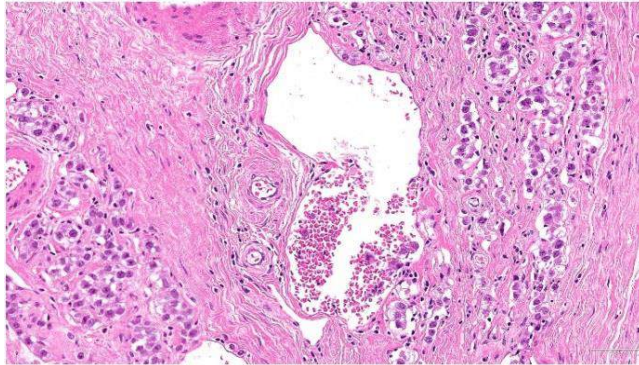
Left testis: Seminoma Associated intratubular germ cell neoplasia, unclassified.



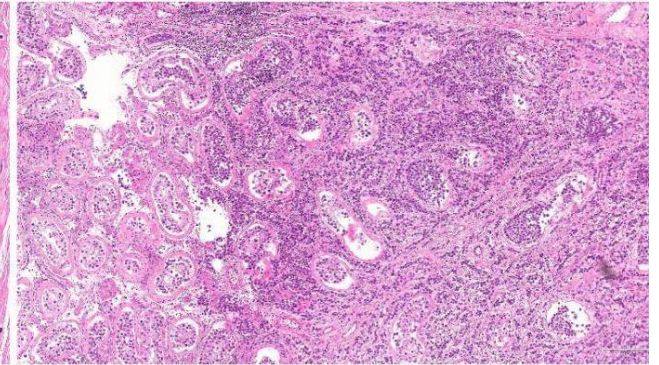
NORMAL SEMINIFEROUS TUBULES



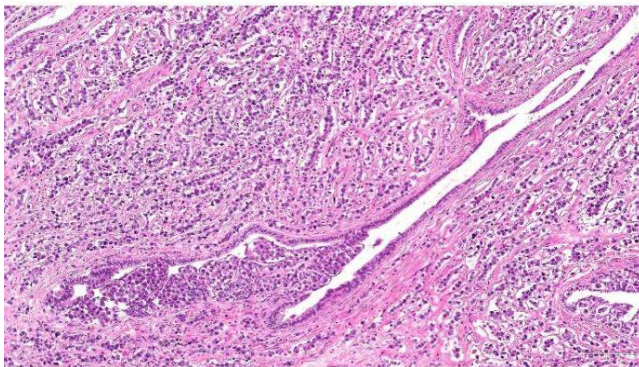
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Review of 19th February, Scientific Meeting- Student Presentations

The 2015 Scientific meetings was kicked off by three excellent RMIT student project presentations.

Thao Pham undertook a project to create a modified Movat's pentachrome stain. Movat's stain is useful for demonstrating cardiovascular and blood vessel disorders. In 1955, Henry Movat described a Pentachrome stain that demonstrated various connective tissue elements. Collagen is yellow, nuclear features are black, elastic fibres purple/black, bright red fibrin, red muscle, blue acid mucins and ground substances. Movat's stain has a very long method and difficult steps for the inexperienced. In 1972 Russell's modification of Movat's stain overcame these staining difficulties by replacing some of the difficult solutions. It decreased staining time and increased the reliability of the stain. When Thao followed Russell's modified method, she was able to demonstrate all components except collagen (pale yellow compared to bright yellow). Various staining modifications were tried including extending staining time and the replacement of alcoholic saffron with another suitable collagen dye. Dyes tried were van Gieson, tartrazine, orange G, eosin Y, light green and aniline blue. The most successful dyes were light green and aniline blue. This modification was included to form the 'Phamini' method (alcian blue 15 minutes, alkaline alcohol 30 minutes, light green 3 minutes or aniline blue 4 minutes). The Phamini method is much quicker (approximately 1 hour) and is more cost effective.

The second presentation was by Simon Pascoe. Simon looked at the co-localisation of the parathyroid hormone gene family in the islets of Langerhans using multiple label immunofluorescence. Diabetes Mellitus is a growing epidemic with an impact on world health and budgets. The accepted aetiology of diabetes is the damage or destruction of pancreatic insulin producing β -cells. Parathyroid hormone related protein (PTHrP) has been shown to be present in many cells of the body and is shown to have a longevity effect on β -cells through inhibition of β -cell death. Parathyroid hormone (PTH) and PTHrP are structurally similar and given this could PTH play an unknown role in pancreatic islet cells. Simon performed a multiple-label immunofluorescent protocol for use on formalin-fixed paraffin-embedded tissue to co-localise PTH/PTHrP within α and β cells of pancreatic islets. The results were obtained using a Nikon A1 confocal microscope that has 4 lasers and supporting computer software to render images with all labels to be seen at once with ease. Whilst the method worked quite well, the results were not as expected. PTH was seen in glucagon cells not insulin cells. Whilst the results were not as expected it enable more research to be performed looking at the roles PTH and PTHrP play in the development of diabetes and to aid in treatment options.

The final presentation was by Claire Palmer. Claire looked at demonstrating the role of GATA-3 in normal, benign and malignant tumours in canine mammary tissues using in-situ hybridisation. GATA-3 is found in chromosome 10 and is involved in the differentiation of mammary luminal progenitor cells into alveolar and ductal cells. These cells are essential for normal mammary function. GATA-3 is expressed in human breast cancer and a strong expression is linked to a favourable prognosis. Canine mammary tumours follow a similar pathogenesis to human breast cancer and are an excellent model. Chromogenic in-situ hybridisation (CISH) was used to visualise the GATA-3 gene. The method was created and trialled to obtain optimisation. Claire showed a clean and strong CISH method was developed. However successful hybridisation of the canine GATA-3 probe was not achieved. This enables more research to be performed using a known GATA-3 human probe or a redesigned canine GATA-3 probe.

These three excellent presentation showed the importance of good histology, special stains, immunofluorescence, in situ hybridisation and the trials and tribulations of performing them.

Tania Marsden
RCH

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HISTO-OGRAPHY COMPETITION

Histology images Photography competition for

1) The Most Interesting Stain



Ankle joint of a skink stained with an H&E
note the chondrocytes, bone marrow,
the skin scales and underlying pigmented dermis

2) A Picture within an image



Cookie Monster H&E

There will be a \$250.00 prize and the winner will be announced
in the first edition of Paraffinalia 2016.

*Please submit all photos electronically to
editor@hgv.org.au*

*Images will be displayed in Paraffinalia
Limit of 3 photos per person*

*The image must be from a slide at your laboratory ie. No google or
Pinterest images*

The Winner will be selected by the HGV committee



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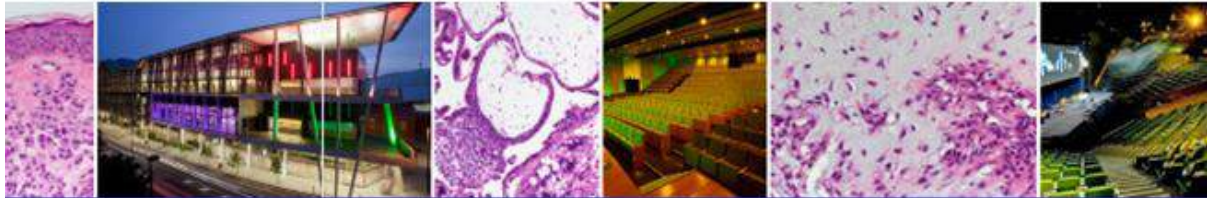


Histotechnology Group of Queensland

7th National Histotechnology Conference

5 - 7 June 2015

Brisbane Convention & Exhibition Centre



Register now for an exclusive invite!

Did you know the current conference registration level is at 70 delegates? The first 100 people to register will receive an additional invite to an exclusive Friday evening function following the welcome trade exhibition hosted by the Histotechnology Group of Queensland.

Venue: Soleil Pool deck & bar area at Rydges South Bank

<http://www.bacchussouthbank.com.au/?ref=MjA4Mg==>



Why: Food, Drinks and Entertainment will be included as a welcome & thank you by the HGQ.

Time: From 8:30 pm Friday 5th June 2015.

Early Bird Registration expires 27 March, 2015 - Hurry to avoid paying for the full registration rate.

[Register here](#) for the 7th National Histotechnology Conference today!

We welcome you to tell your industry colleagues and encourage you to visit www.nhc2015.com

Program Update

The conference speaker program has been finalised. The two themed sessions "Update in Laboratory Management" and "State of Origin" have received great support with speakers eager to represent their state and share their extensive knowledge of pathology.

The most popular speaker will be recognised at the Saturday evening Gala Dinner.

Check out www.nhc2015.com for more program information and speaker photos.

Friday Workshops still have available...



The Digital Pathology workshop provides attendees with a "hands-on", web-based role lead by Eric Glassy MD. who is globally regarded as a leader in this area of Pathology which is undergoing a "revolution more than an evolution". The venue is the brand new state of the art Science and Engineering Building at QUT's Brisbane City Gardens Point campus (A 10 minute stroll from the Conference Venue).

The Histochemistry staining workshop "*Scientist Vs Machine - Histochemical Staining with the experts*" is an opportunity to compare your staining against the other delegates as well as the Dako Artisan™ Link Pro at QUT's recently refurbished Q block customised: Histology laboratory.

All stained slides will then be peer-reviewed by the participant and recognised Senior Histology scientists for comparison of stain performance and to encourage group discussion and analysis in a friendly "Back at University" environment.

Each participant's stained slides and quiz responses will be assessed and the best performed will be recognised at the Conference Gala Dinner the following evening.



Friday Social Activities

Friday social activities are available to those interested. If you're interested in attending any of the following please contact admin@hgg.org.au to RSVP before the 27th of March 2015.



Venue: Riverlife Brisbane www.riverlife.com.au

Time: 3pm - 5pm

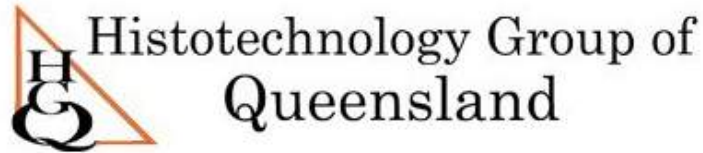
Activities available to NHC delegates with a 50% discount include:

- A) Kayaking on the Brisbane River
- B) Abseiling on the famous Kangaroo Point cliffs
- C) Guided Cycling tour alongside the Brisbane River to the Botanical Gardens & return
- D) Stand Up Paddle Boarding on the Brisbane River

Welcome our overseas-sponsored Histology Scientists

The HGQ will be sponsoring Histology scientists and technicians from the Pacific Islands to attend the NHC. Make sure you make them welcome during their time in Brisbane and they would appreciate to share their knowledge and working experiences with you.

If you have any queries please email admin@hgq.com.au



Last chance to exhibit at NHC 2015..



The trade exhibition for NHC 2015 is almost at capacity!

If you would like to be sponsor or exhibit at NHC 2015 please [click here](#) for more information and download a prospectus today!

FAQ's

Why is the NHC being run in parallel to the APIAP conference?

- This is a unique opportunity for both conference delegations to network in the company of a common Trade Exhibition display.
- Combined Sunday plenary sessions to be aimed at laboratory staff, managers and pathologists to improve understanding of the important roles performed by attendees and provide valuable continuing education.
- To keep delegate registration costs at an affordable level.
A standalone conference at the best conference venue in Brisbane would have incurred much higher costs.

When will the NHC delegates be combined with the APIAP congress delegates?

- The Saturday two-course sit down lunch, which is unique compared to previous NHC meetings.
- All morning and afternoon tea breaks which are provided within the Trade Exhibition area.
- The Sunday 7th June plenary sessions chaired by Dr John Chan in the Great Hall which will focus on both technical and diagnostic considerations in Surgical Pathology. This will be a rock concert - Histopathology style!

What is held for NHC delegates only?

- All Friday 5th June Workshops, afternoon social activities and evening Welcome Trade Exhibit function.

- Saturday 6th June plenary sessions, pre-dinner drinks and evening Gala Dinner.

Why is full registration the only option for NHC delegates?

- The registration fee includes tickets to both the Friday Trade Welcome Function and the Saturday Gala Dinner in addition to Saturday and Sunday plenary sessions at a very competitive rate
- Day only registration has not been offered as this would not be significantly less expensive and this unique conference experience really requires both Saturday and Sunday attendance.

Any other questions about the NHC meeting can be directed to admin@hgq.org.au.

Why the HGQ App?

- The HGQ committee is currently investigating whether a smart device App is suitable for this and future meetings.
- Live voting, instant questions and event notifications are features that could be a valuable addition to the social networking aspects of the meeting.

Would the App completely replace printed conference booklets?

- No. All NHC delegates would still receive booklets as usual. The App would be an option for delegates to download to their smart device.

Further Information...

Should you have any queries regarding sponsorship, registration, accommodation or any other areas please do not hesitate to contact the NHC 2015 Event Partner, HI Events Pty Ltd.

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Histology Group of Victoria Inc.
Org. No. A0035235F

Who Owns What? The Requirements for Supply and for Tissue Samples

Speakers: Mrs Elizabeth Kennedy
General Counsel and Corporate Secretary
Peter MacCallum Cancer Centre

Dr Benjamin Brady
Oncologist
Cabrini Hospital

Date: Thursday 7th May, 2015

Time: 6:00 – 6:30 Refreshments
6:30 – 8.00 Presentation (Note early start)

Venue: Brockhoff Lecture Theatre
Level 3, Smorgon Family Building
Peter MacCallum Cancer Centre
St. Andrew's Place, East Melbourne



Attendance at this meeting contributes to APACE points

Are We There Yet?

It became clear on the boat that acting as substitute for a New Year's Eve lab shift was preferable to deck duty on the Spirit. Dolphins aside, riding the waves was a literal experience with high seas and Chuckies inescapable features. Having found my sea legs sooner rather than later (I put it down to years of studying on Level 10 of RMIT Building 201 with the high winds of Bundoora), I pressed on to Hobart for the Conference in November.

Arriving for the Friday evening low key social catch-up, I anticipated a few refreshing beverages in a quiet venue before retiring early. Unfortunately, the girls from TissuPath and a few others who should know better, had other ideas. I felt compelled to merge with them and a Buck's party on a public bar crawl. Only in Hobart would a girl find herself under the weather (it was raining) and vulnerable, surrounded by young eligibles, but inevitably completely safe after 3 laps of Macquarie Street. Not only did the Buck escort me to my hotel personally, but returned my lost clothing items the next day.

The conference was, unknown at the time, to be the last time one lab group was entirely together. The cast iron plant at Peter Mac passed away recently affecting all lab personnel. One member of the group was so moved that he retired from the laboratory to commence a course of study in Paramedics to help prevent future senseless loss of life. Cameo sightings of Nick Jene have been noted at Melbourne Pathology and bars on Smith Street.

The highlight for me was the Trade Display, of course. Pens, pads and peppermints galore were enough to reinvigorate my spirit after a draining first night. Handling comfort items, such as, large dissecting knives and bevel-edged slides with sensible advice from experienced representatives encouraged me to face the night ahead. Sublime seafood and wine at Mures was followed by several confusing experiences involving lost pink ducks, 80's rock bands and dancing in windows. Survival was key. I thank my lucky stars a friendly local convinced me it was premature to start the Mt Wellington Point to Pinnacle charity half marathon at 3am and guided me back down to my colleagues.

Although tired and emotional and suffering sensory overload, I managed to attend the last session in Hobart. It is clear that, unlike Tasmania, there is little to recommend the Congo for bucket list of destinations. Despite this, Melbourne Pathology simulated a Congo-like generator failure with a power-out of several hours duration on a weekend recently. Could Mark Bromley be pining for the Congolese experience, just keeping the staff on their toes or putting the disaster plan to the test? I personally think it was a prelim to Earth Hour – have your glow sticks on hand for next time peeps.

It does bring back memories of the good old days, though. When we bought ice on the way to work to cool the blocks, boiled the water on the gas ring for the floatation bath and stood in buckets of cold water at the microtome on hot days. There is nothing like a 'Mad Manager'-sponsored, ice-cold, tangy Frosty Fruit slurped whilst hand-staining! Yes, the Summer of 2014 was a good one – let's hope we get one next year.

Waxing Lyrical



Histology Group of Victoria Inc.

Org. No. A0035235F

Future Events:

2015

Thursday 19th February

Scientific Meeting- RIMT Student Project Presentations

Venue: Peter Mac

Thursday 7th May

Scientific Meeting: Who Owns What?

The Requirements for Supply and for Tissue Samples.

Venue: Peter Mac

5-7 June

7th National Histotechnology Conference in conjunction with the

9th Asia Pacific International Academy of Pathology Congress

Brisbane Convention and Exhibition Centre

Brisbane, Queensland

Thursday 25th June

Scientific Meeting

Venue: Peter Mac

Friday 14th August

Trivia night

Venue: The Metropolitan Hotel

263 William St.

Melbourne VIC 3000

August 28- September 2

NSH Symposium/Convention

Gaylord National Resort and Convention Centre

Washington, DC

USA

Thursday 10th September

Scientific Meeting

Venue: Peter Mac

Thursday 12th November

Scientific Meeting/AGM

Venue: Peter Mac