



Histology Group of Victoria Inc.

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PARAFFINALIA

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Contents:

- Blurb from the Bush
- Under the Microscope with David Lu
- Mt. Gambier Meeting 2014
- Trivia Night review & pictures
- Article Review by James Wingfield
- HGV Committee Nomination form
- Future Events 2013

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 2013 are:

Committee Members	Name	Institution	Phone
President	Adrian Warmington	St. John of God Pathology (Victoria)	5320 1171
Treasurer	Judy Brincat	Melbourne Pathology	9287 7785
Editor Paraffinalia	Elizabeth Baranyai	Cabrini Malvern	9508 1263
Trade representative	Kristy De George	Austin Pathology	9496 5792
Web Master	Sean Phefley	Monash Health	9594 3493
Social Secretary	Rebecca Forrester	Peter MacCallum Cancer Centre	9656 1431
Social Secretary	Kellie Vukovic	Peter MacCallum Cancer Centre	9656 1431
Meeting Co-ordinator	Nguyen Nguyen	Peter MacCallum Cancer Centre	9656 1431
	Mark Bromley	Melbourne Pathology	9287 7806
	Rosemary Savino	Monash Health	9594 3494
	Jane Furness	Melbourne Pathology	9287 7785
	Samantha Arandelovic	St. John of God Pathology (Victoria)	0438176517
	Alison Boyd	St. Vincent's Hospital	9288 4288

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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BLURB FROM THE BUSH

Scientifically it is the calm after the storm. However the HGV recently ran its annual social trivia night. This presented a number of firsts. It was the first time we held the event at the Colonial Hotel, the first time we hired an MC to run the event, the first time we included a meal and the first time we opened up the sponsorship to more than one sponsor. Record numbers attended and we were able to accommodate everyone that expressed an interest in attending. The night had mixed success. The trivia component seemed well received by everyone and there was certainly plenty of socialising. However the HGV acknowledge that the venue was not as successful as we had anticipated and we will be seeking a different location next year. To the sponsors that supported the event and who attended the HGV thanks you for your ongoing contribution to HGV events.

With the national meeting this year, we will not be having any further scientific meetings until our AGM meeting in November. Included in this edition is a nomination form for the HGV. We would love to see some new faces on the committee, so if you feel like contributing to the provision of ongoing education in Histology, please consider the HGV committee.

Adrian Warmington
HGV President

Under the Microscope with David Lu-Reported by Kellie Vucovic & Rebecca Forrester

David Lu
Anatomical Pathology
Grade 1 Scientist
Melbourne Pathology

1. What was your first job?

I've done a lot of part time jobs but my first proper job is the one I'm currently at.

2. How long have you worked in histology?

I've worked in histology for 5 years now.

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

I find it hard to explain so I just mention things like scalpel blades and tissue and cutting. People either ask me to explain further or just ask me to stop altogether.

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

I would like to have dinner with Michael Jordan because he is Michael Jordan.

5. What is your all-time favourite movie?

My all-time favourite movie would have to be My Sassy Girl (Korean Version not the awful American version).

6. What is your favourite stain?

I like a good Grocott's stain.

7. What is your favourite food/Restaurant?

I'm not really a picky eater and usually have periods which I crave certain foods. Right now its Korean food!

8. What is the best conference you have ever attended?

I've only been to one which was held in Melbourne earlier this year and look forward to future ones.

9. Favourite beverage?

I don't like fizzy drinks so I usually go for water.

10. What is your dream holiday destination and why?

I would love to travel around the world or at least visit at least one country on each continent because I want to experience the different cultures and sites each place has to offer.



Joint Meeting
in Mt Gambier
SAVE THE DATE
8th-9th March

2014

@ The Quality Inn Presidential
Mt Gambier

2013 HGV TRIVIA NIGHT

With a record, 118 participants this year, the Trivia night proved to be a great success. Excluding the extreme lateness of the meals, which could not be helped (apparently there was a big fight in the kitchen which resulted in half their staff walking out), the night ran very smoothly.

The final scores for the night, which included the 6 rounds, plus bonus points for the Baffler round were as follows:

- 1st – Peter Mac (Mac and Cheese) – 68 points
- 2nd – Austin 2.0 – 64 points
- 3rd – Kermit – 63 points (Winners of the tie breaker question)
- 4th – Royal Children's – 63 points
- 5th – Baby (TissuPath) – 59 points
- 6th – Monash Mucous – 59 points
- 7th – Etcher Sketch Heads (SJOG) – 59 points
- 8th – Harvey Wall Bangers – 55 points
- 9th – Scrofula – 54 points
- 10th – The Synapses – 53 points
- 11th – Slide Sisters – 47 points

Looking at the answer sheets the things that stood out are:

- Not one person in the room knew how many holes are in a metal cassette lid!
- Everyone knows the second verse of the national anthem
- Most teams seem to have 'forgotten' the formula of formaldehyde
- Peter Mac is the only table that put Snickers as the world's top selling chocolate bar--this must have been the winning question!

We need to say a huge thank you to our wonderful sponsors because without them the night would not have been possible – ABACUS, Hurst Scientific, Dako, Roche, Australian Biostain and Tek Med!!

Kellie Vukovic



Article Review by James Wingfield

Henwood A., Prasad, L & Bourke, V. The application of heated detergent dewaxing and rehydration to techniques for the demonstration of fungi: a comparison to routine xylene-alcohol dewaxing. *Journal of Histotechnology* 36(2) pp 45-50.

This article aims to compare the efficiency and effects on sensitivity of the two stated methods of dewaxing for three fungal stains. The authors also aim to validate the use of a safer xylene-free coverslipping method for these stains.

The authors state that histological demonstration of fungi is much more sensitive than microbiological culture. Therefore it is important that rapid and reliable techniques are available to aid in the identification of various fungi. The staining methods tested by the authors were; Grocott's methenamine silver (GMS), periodic acid Schiff's diastase (PASD) & sulphonated toluidine blue (STB).

Archival formalin-fixed paraffin-embedded (FFPE) tissue containing various fungi were sectioned; dried; and dewaxed and rehydrated using two methods. The first method used 2 changes of xylene for 2mins, followed by 3 changes of absolute ethanol for 2mins each. The second method used a 2% diluted detergent solution at 90°C for 2 changes of 1min each. Both methods employed the use of running tap water and transfer to distilled water following the dewaxing method. The detergent solution was prepared in a large volume coffee urn where temperature was regulated.

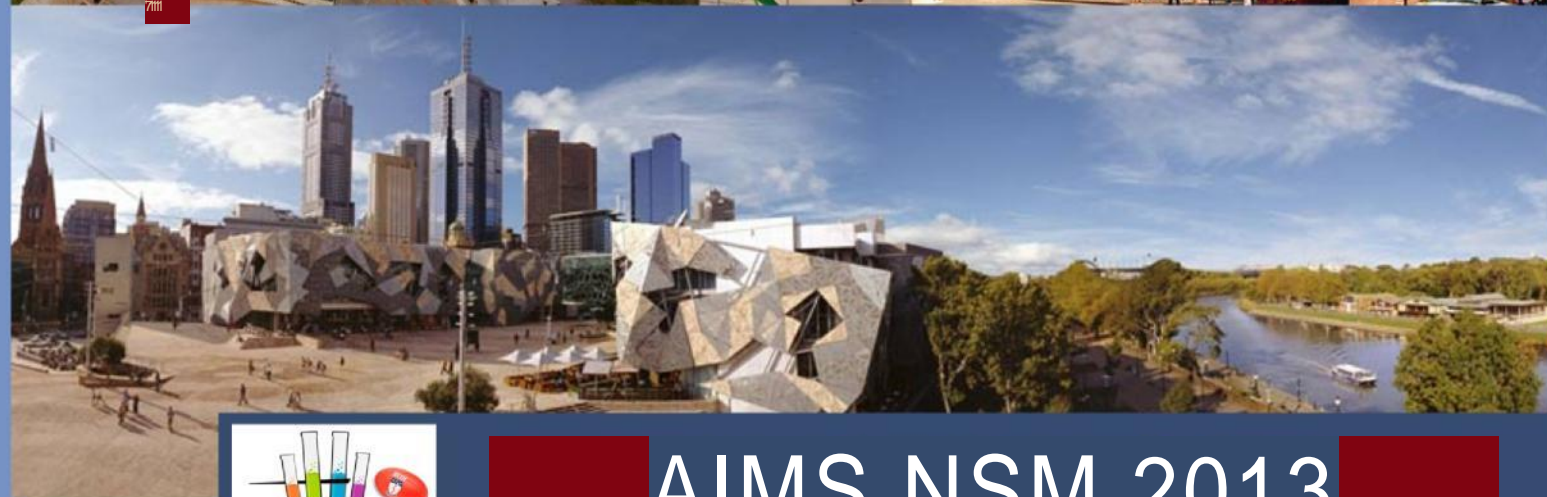
The xylene-dewaxed sections stained with GMS and PASD were dehydrated and cleared using absolute ethanol and xylene. The detergent-dewaxed sections stained with GMS and PASD; and STB sections dewaxed via both methods; were dehydrated and air dried with absolute ethanol and subsequently 'dry-coverslipped'. All sections were coverslipped using the same xylene-based mountant.

The results of these tests showed no overall difference in the detection of fungi dewaxed with either method. Detergent dewaxing was preferred in 6 of 14 cases after STB staining. This was due to improved contrast between the fungi and background. Neither of the two cases of *Pneumocystis jiroveci* were detected with PASD due to being obscured by background mucin staining. This highlights the importance of using another method, such as the GMS, where mucin is over-oxidised by the use of chromic acid to carboxylic acids, resulting in little to no staining. Chromic acid oxidation may also be used prior to Schiff's reagent when fungal infection is suspected to increase contrast between fungi and background.

After 6 months there did not appear to be any deterioration of staining quality in the sections dewaxed with detergent and coverslipped without clearing.

The innovative use of diluted commercial dishwashing detergent as an alternative to xylene for dewaxing of FFPE tissue sections was introduced in a 2001 publication by Falkeholm et al.. Their method to dewax and rehydrate sections has been successfully reproduced and validated in a number of subsequent studies, including this one. Interestingly another publication by Henwood (2012) showed the use of detergent dewaxing gave equivalent results to regular hydrocarbon dewaxing in the demonstration of over 50 antigens via immunohistochemistry.

The results from this study showed hot detergent dewaxing to be compatible with the 3 fungal stains used. It was also determined to be faster, less expensive and safer than conventional xylene dewaxing and provided equivalent staining results.



AIMS NSM 2013

"Tackling Science, Kicking Goals"

2nd - 4th SEPTEMBER 2013 | Grand Hyatt, Melbourne Victoria

The Australian Institute of Medical Scientists is proud to host and invite you to the 2013 AIMS National Scientific Meeting (NSM), 2-4 September.

The meeting at the Grand Hyatt will bring together a top level forum of leading national and local expert speakers to address topical issues in medical science.

www.aims.org.au

AIMS NSM 2013

Day 1 | Targeted Therapies and Diagnostics | Monday 2nd September 2013

8:40	9:00	Official Opening				
9:00	10:00	Keynote Address Prof Fiona Wood, Burns Service Western Australia & Fiona Wood Foundation The Quest for Scarless Healing				
10:00	10:45	Saal-Foley Lecture Prof Denise Jackson, RMIT University Developing the Careers of Medical Scientists in Australia				
10:45	11:15	Morning Tea				
11:15	12:45	Plenary 1 Prof Stephen Fox, Peter MacCallum Cancer Centre Molecular Pathology: Evolution or Revolution in Tumour Classification and Therapeutics Dr Dominic Wall, Peter MacCallum Cancer Centre Cell Therapies - Translation to the Clinic				
12:45	13:30	Lunch				
13:30	15:00	Breakout Session 1 - Biochemistry George Streitberg - Impact of Technology on Service Provision in Core and Biochemistry Labs Dr Hans Schneider - Natriuretic Peptide testing in Heart Failure	Breakout Session 1 - Microbiology Danielle Sevier - MALDI TOF Dr Peter Ward - Gram Negative Resistance and Phenotype Testing Mick Huysmans - Transition to EUCAST Patricia White - Gonorrhoea and Antimicrobial Resistance	Breakout Session 1 - Haematology/Coagulation/Transfusion Dr Erica Wood - Platelet Transfusions - Why, When and How? Anthony Bell - Transitioning Molecular Haematology to Next Gen Sequencing (NGS) Dr John Rowell - Haemophilia Genetic Testing	Breakout Session 1 - Histology Dr Michael Christie - Molecular Testing of Colorectal Cancer Samples Beena Kumar - IHC - Does it have a Role in Targeted Therapy?	Breakout Session 1 - Pathology Funding & E-Health Ed Wilson - Pathology Under Medicare. The Need for a New Approach to Funding Jenny Sikorski - E-health Challenge in Pathology
15:00	15:30	Afternoon Tea				
15:30	17:00	Breakout Session 2 - Biochemistry David Faulkner - Clinical Chemistry of Multiple Myeloma Dr Ken Sikaris - Tumour Marker Presentation	Breakout Session 2 - Microbiology 6 x Microbiology Case Study Presentations Patricia Szczurek Amy Batey Geremie Ganino	Breakout Session 2 - Haematology/Coagulation/Transfusion Dr Emmanuel Favaloro - Futility of Testing for Thrombophilia Kylie Rushford - Blood Transfusion Practice in Thalassemia Joe Manitta - Malaria Incidence, Diagnosis & Therapy	Breakout Session 2 - Molecular Pathology and Somatic Mutations A/Prof Elizabeth Algar - Cancer Molecular Pathology: Lessons Learned from Paediatric Cancer Dr Ben Solomon - Topic TBC	Breakout Session 2 - Regulatory Session Michelle McNiven - TGA & IVD Regulation Presentation Andy Griffin - Updates from NATA

AIMS NSM 2013

Day 2 | Transplantation and Immunisation | Tuesday 3rd September 2013

7:30	8:30	Breakfast Master Class - Molecular Pathology 101 Anthony Bell & Dr Victoria Beshay - <i>From DNA to Life Changing Decisions</i>	Breakfast Master Class - Coagulation Robert Bird - <i>The Clinical Utility of Thrombophilia Screening</i> Murray Adams - <i>QC of Lupus Testing</i>	Breakfast Master Class - Flow Cytometry Ralph Rossi - <i>Introduction to Physics Flow Cytometry</i> Vuong Nguyen & Gosia Gorniak - <i>Clinical Flow Case Studies</i>	Breakfast Master Class - Haemoglobinopathy/Thalassemia Investigation Alan Balloch & Steve Valentine - <i>Molecular, Morphology & HbEP Topics</i>	Breakfast Master Class - Victorian Immunohaematology Discussion Group Speaker TBC - <i>Intravascular Haemolysis Following Intravenous Immunoglobulin Therapy</i> Mark Risson - <i>Testing and Transfusion Challenges in a Massive Transfusion</i> Sue Quiring - <i>Anti-Jkb Implicated in Haemolytic Disease of the Fetus and Newborn</i>
9:00	10:30	Plenary 2 Dr Helen Opdam , DonateLife <i>Organ donation - What's New and Changing</i> A/Prof David Ritchie , Royal Melbourne Hospital <i>Haematopoietic Stem Cell Transplantation; The Power and the Promise</i>				
10:30	11:00	Morning Tea				
11:00	12:30	Plenary 3 Prof Monica Slavin , Peter MacCallum Cancer Centre <i>Infections in the Immunocompromised</i> Dr Solomon Cohnney , University of Melbourne & Monash University <i>ABO Incompatible Solid Organ Transplantation</i>				
12:30	14:00	Lunch (including Poster Session)				
14:00	15:30	Proffered Papers Margaret May Baekalia - <i>Assessing Vaginal Smears from Solomon Islands for Bacterial Vaginosis by Nugent Score Method</i> Helen Bardsley - <i>Transfusion in HELLP</i> Rebecca Donkin - <i>Utilising Virtual Microscopy to Teach Haematology in a Regional University</i> Pranav Dorwal - <i>Flow Cytometric Cross Match (FCXM): A sensitive tool to detect Donor Specific Antibodies (DSA)</i> Dennis Mok - <i>ISO 15189:2012 implementation: an applied change management approach</i> Leanne Sinclair - <i>Case study of adult MLL-rearranged B-precursor acute lymphoblastic leukaemia</i>			Education Discussion Forum <i>A Topical Education Session for Medical Science Educators and Laboratory Trainers</i> Panel: A/Prof Anthony Woods, Prof Denise Jackson, Dr Cindy O'Malley & Dr Nina Fotinatos Facilitator: A/Prof Ralph Green	
15:30	16:00	Afternoon Tea				
16:00	17:30	Breakout Session 3 - Microbiology Dr Jason Trubiano - <i>Faecal Transplantation for C. difficile</i> Prof Heath Kelly - <i>Influenza Vaccination Trends and Issues</i> Christopher Maher - <i>Polio Eradication Program and Progress Versus Issues Faced</i>	Breakout Session 3 - Haematology/Coagulation/ Transfusion Geoff Magrin - <i>Blood Transfusion Requirements in Transplantation</i> Dr Kate Burbury - <i>Haemostasis in Massive Transfusion</i> Peter Gambell - <i>CD34 Testing for Transplantation Planning- What's New?</i>	Breakout Session 3 - Histology Prof Greg Snell - <i>Lung Transplantation: Interfacing Clinical Medicine and Basic Science</i> Dr Donna Rudd - <i>Preservative Solutions for Solid Organs</i>	Breakout Session 3 - Biochemistry Sabrina Koetsier - <i>Monitoring Your Method Using the RCPAQAP</i> Marion Black - <i>Immunosuppressant Drug Testing</i>	Breakout Session 3 - POCT & Automation Tony O'Neill - <i>POCT Presentation</i> Ray Dauer - <i>Challenges for Medical Scientists in an Automated World</i> Robyn Woodburn-Dennis - <i>Update on Automation Platforms</i>
18:15	19:00	MCG Tour				
19:00	23:00	Conference Dinner at the MCG				

AIMS NSM 2013

Day 3 | Use and Abuse of Medical Science | Wednesday 4th September 2013

9:00	10:30	Plenary 4 Dr Catrina Goebel , Australian Sports Drug Testing Laboratory <i>The Australian Sports Drug Testing Laboratory</i> Dr Peter Larkins , Epworth Sports & Exercise Medicine Group <i>An Historical Perspective of Drugs & Doping in Sport – and Where to Next?</i>
10:30	11:00	Morning Tea
11:00	12:30	Plenary 5 Levinia Crookes , Australasian Society for HIV Medicine <i>Status and Latest Developments in POCT for HIV in Australia</i> Prof Andrew Grigg , Austin Health <i>Advances and Road Blocks in the Management of Haematological Malignancy</i>
12:30	13:30	Lunch and AGM
13:30	15:00	Joint Session - Multidisciplinary Topics Dr Ross Brown - <i>Blood Boosting</i> Dr Jim Vadolas - <i>Development of New Treatments for Haemoglobin Disorders</i> Carolyn George - <i>A Patient's Encounter With Blood Products</i>
15:00	15:30	Afternoon Tea
15:30	16:30	Joint Session - Multidisciplinary Topics Dr Ross Brown - <i>Ethics of the In Vitro Diagnostic Industry</i> Prof Lindsay Grayson - <i>Use and Abuse of Antimicrobials and Antibiotic Stewardship</i>
	17:00	Meeting Closed



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

Thursday 14th November, 2013 Peter MacCallum Cancer Centre

Nominated Person.....

Institution.....

Email Address.....

Position Nominated For	President	<input type="checkbox"/>
(Please tick box)	Treasurer	<input type="checkbox"/>
	Secretary	<input type="checkbox"/>
	Committee Member	<input type="checkbox"/>

All nominations must be signed by two HGV members
(If you receive Paraffinalia you are a member)

Name of Member.....Signature.....

Name of Member.....Signature.....

Nominations must have the consent of the nominee

Signature of Nominee.....

Nominations must be returned no later than Thursday 7th November, 2013.

Please send nomination form to:
The Secretary
Histology Group of Victoria
PO Box 1461
Collingwood, VIC 3166

Scanned and emailed to
secretary@hgv.org.au



Histology Group of Victoria Inc.
Org. No. A0035235F

Future Events:

2013

~~Thursday 21st February~~

~~Combined HGV/ASC Scientific Meeting-Student Presentations~~

~~Venue: The Royal Dental Hospital
720 Swanston St., Carlton~~

~~Friday, 15th March~~

~~Lawn Bowls~~

~~Venue: Fitzroy Bowling and Sports Club
578 Brunswick St, Fitzroy North~~

~~April 26-28~~

~~National Histology Conference 2013~~

~~Venue: Crown Conference Centre, Melbourne~~

~~Thursday, 30th May~~

~~3rd International Workshop in Diagnostic Immunohistochemistry~~

~~Venue: Sydney~~

~~Friday 26th July~~

~~Trivia night~~

~~Venue: Colonial Hotel
240 King St, Melbourne VIC 3000~~

~~September 2-4~~

~~AIMS meeting~~

~~Venue: Grand Hyatt Melbourne~~

~~September 20-25~~

~~NSH Symposium Convention~~

~~Venue: Providence, Rhode Island, USA~~

~~Thursday 14th November~~

~~Scientific Meeting/AGM~~

~~Venue: Peter Mac~~