



Australasian Division of the
International Academy of Pathology Limited

Newsletters - 2005

Number Two

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**Report on the
30th Annual
Scientific Meeting
of the Division**

**Darling
Harbour,
Sydney,
June 3-5,
2005.**



This meeting was another success story. We had three international speakers. On Friday, Dr Henry Tazelaar from the Mayo Clinic spoke on two topics, "Risk management in the pathology laboratory" and "Interstitial lung disease." Both of these produced lively discussions.

On Saturday, Dr David Weedon, Sullivan and Nicolaides Pathology, Brisbane, held the audience in suspense with his Oscar winning performance on skin conditions. After his talk, the President, Warick Delprado presented David with a Distinguished Pathologist Award of the Division.

On Sunday, Dr Jennifer Hunt, University of Pittsburgh Medical Center, USA, led us gently but thoroughly through "Head and Neck pathology." She beautifully illustrated the use of morphological diagnosis and the ancillary approach of molecular pathology. We are extremely lucky to be able to attract this calibre of international speaker to our meetings.

Dominic Spagnolo in delivering the Vincent McGovern Memorial Lecture gave an erudite talk on "NK lymphoma." This difficult topic was well presented to those neophytes in the audience as well as to the established Lymphomaniacs.

There were 436 registrants. 200 attended the cocktail party, and 80 the dinner.

I would like to thank Warick Delprado for all the work he and his committee put into this meeting. In stepping down as President, Warick completed 19 years of active work on the Executive. It is only through the generosity of such people that this meeting continues to be a success.



Soon Lee (organiser of the poster displays), Richard Jaworski (organiser of the web site), Brett Delahunt (President elect).



David Weedon being presented with a Distinguished Pathologist Award by the President, Warick Delprado.



Warick Delprado presents Peter Cropley with a Distinguished Pathologist Award.



Con Theocarous and Veli Marjoniemi received special awards for their long service to the Division.



The retiring Executive - Con Theocarous (Sec.), Warick Delprado (Pres.), Veli Marjoniemi (Treas.)

The International Congress in Brisbane in 2004 was voted "the best meeting yet" by the President of the IAP, Professor Ushigome. When the final accounts were known, it was found that it had resulted in the third largest disbursement of funds from an International Congress. The chief organiser of the Congress, Robin Cooke, was not able to attend the Annual Meeting because he was giving invited lectures on Infectious Diseases to the Bolivian, Chilean and Argentinian Divisions of the IAP. Bob Eckstein who organized the outstanding Scientific Programme was on hand to receive the thanks of the Board and the membership. Both of them were presented with Special Service Awards for their efforts in running the Congress. They

were ably assisted by a large number of individuals from the Division and from abroad. The Board wishes to acknowledge and thank all of these for their untiring efforts in making the Congress the success that it was. It could not have happened without the wholehearted support of all members of the Division. It was wonderful to note that there were 518 delegates from Australia and 48 from New Zealand. It was also very encouraging to see so many Trainees attending the Congress. We all hope that they were stimulated and encouraged in their pursuit of a career in Pathology by their attendance.

A Distinguished Service Award was presented to Peter Cropley, the foundation Secretary/Treasurer of the Division. He was also the founding Editor of the News Letter of the Division. This was one of the first such Newsletters to be published by a Division of the IAP. His award was richly deserved.

Poster Prize Winners

There were 21 posters submitted. Thank you Soon Lee for organising them. Winning posters listed below by first authors:

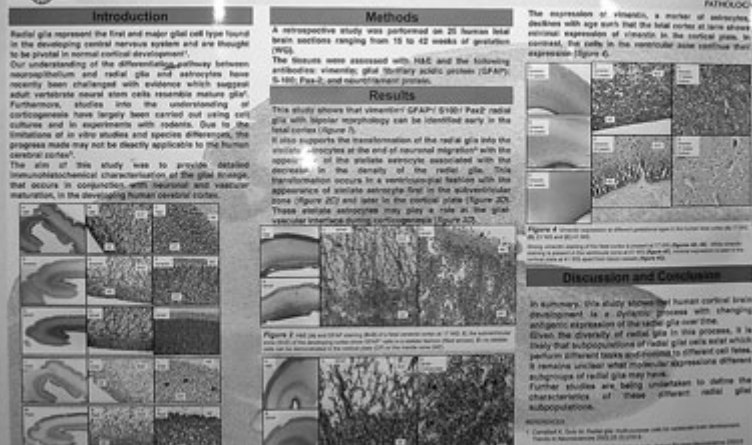
Characterisation of the Radial Glia and Astrocytic Differentiation in the Human Fetal Cerebral Cortex
 Ching KHC¹, Chan-Ling F¹, Bean E¹ and Dawson J^{1,2}
¹Dept of Anatomical Pathology, ACT Pathology, The Canberra Hospital, ACT, and ²Dept of Anatomy, Institute for Biochemical Research, University of Sydney, NSW.

Introduction
 Radial glia represent the first and major glial cell type found in the developing central nervous system and are thought to be pivotal in normal cerebral development.
 Our understanding of the differentiation pathway between neuroepithelium and radial glia and astrocytes have recently been challenged with evidence which suggest adult vertebrate neural stem cells resemble mature glial. Furthermore, studies into the understanding of corticogenesis have largely been carried out using cell cultures and in experiments with rodents. Due to the limitations of in vitro studies, and species differences, the progress made may not be directly applicable to the human cerebral cortex.
 The aim of this study was to provide detailed morphochemical characterisation of the glial lineage that occurs in conjunction with neuronal and vascular maturation, in the developing human cerebral cortex.

Methods
 A retrospective study was performed on 20 human fetal brain sections ranging from 18 to 42 weeks of gestation (WS).
 The tissues were assessed with H&E and the following antibodies: vimentin; glial fibrillary acidic protein (GFAP); S-100; Pax-2; and neurofilament protein.

Results
 This study shows that vimentin+ GFAP+ S-100+ Pax2+ radial glia with bipolar morphology can be identified early in the fetal cortex (Figure 1).
 It also supports the transformation of the radial glia into the astrocytic astrocytes at the end of neuronal migration with the appearance of the astrocytic astrocytes associated with the decrease in the density of the radial glia. This transformation occurs in a ventrodorsal gradient with the appearance of astrocytic astrocytes first in the subventricular zone (Figure 2C) and later in the cortical plate (Figure 2C). These astrocytic astrocytes may play a role in the glial-vascular interface during cortical plate maturation (Figure 2C).

Discussion and Conclusions
 In summary, this study showed that human cerebral cortex development is a dynamic process with changing antigenic expression of the radial glia over time. The diversity of radial glia in this process, it is likely that subpopulations of radial glia cells exist which perform different tasks determined to different cell lines. It remains unclear what molecular expressions different subpopulations of radial glia may have.
 Further studies are being undertaken to define the characteristics of these different radial glial subpopulations.



Pathologist/Scientist Winner – Mr K H C Chung, ACT Pathology, Canberra. Characterization of the Radial Glia and Astrocytic Lineage in Human Fetal Cerebral Cortex

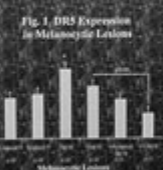
Examination of Death Receptors (DR4 and DR5) for Tumour Necrosis Factor-related Apoptosis-Inducing Ligand (TRAIL) in Human Melanoma
 Liqing Zhuang¹, C. Soon Lee¹, Richard A. Scolyer^{1,2}, Stanley W. McCarthy^{1,3}, Xu dong Zhang¹, John P. Thompson⁴, Gavin Screaton⁵, Peter Hersey^{1,3}

Introduction: TRAIL is a member of the tumour necrosis factor family which acts as type II membrane proteins that are found on the surface of a variety of cell types. TRAIL expression on tumour cells is thought to be involved in tumour progression of melanoma. It induces apoptosis by interacting with death receptors TRAIL-R1 (DR4) or DR5 (DR5) on melanoma cells. Our previous studies showed that sets of human melanoma lines show partial or complete sensitivity to TRAIL-induced apoptosis and that the level of apoptosis induced by TRAIL appeared to be dependent largely by the level of expression of the death receptor DR5. In subsequent studies we found the fresh isolates of melanoma cells from various locations and sites were cultured. Isolates of melanoma cells were initially exposed to TRAIL and appeared to be associated with the death receptor expression on the cells. In view of this we studied death receptor expression on formalin-fixed sections of melanoma with immunohistochemical staining for DR4 and DR5.

Table DRs expression in different melanoma lesions

Tumour type	No.	DR4	DR5
Primary	19	2	10
Metastatic	18	7	15
Melanoma-DR5	34	3	23
Normal Mel	21	2	17
LAMMEL	17	1	11

Fig. 1. DR5 Expression in Melanocytic Lesions

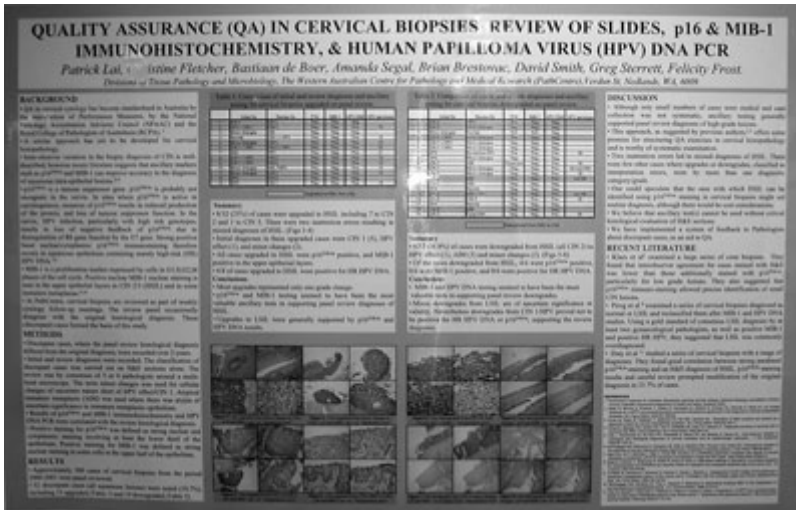


Results: DR4 was expressed in most cases of benign naevi and melanomas. DR5 was not detected in 1/12 of primary and 1/10 of metastases (10%). In metastases of 1.5mm thickness, the mean percentage of DR5 (DR5+) (DR5/DR5+) was higher than in benign naevi (DR5+). Apoptosis was induced by TRAIL in melanomas DR5+ and high level metastases (10.4%). The mean percentage of DR5 in melanomas >1.5mm thickness (DR5+) was also significantly higher than that in lymph node metastases (DR5+). In contrast, DR4 expression was not detectable in 80% of all 100 metastases (primary and secondary) and was low (40%) DR4 and DR5 tended to be local and the staining in the majority of primary melanomas was 1+ and weak in the metastases (Fig. 2).

Conclusions: DR4 but not DR5 was expressed in most primary melanomas. Expression was stronger in metastases and in naevi was found in metastases. These findings suggest that many melanoma cells may not be responsive to therapy based on TRAIL or TRAIL expression unless given with agents that may improve TRAIL death receptor expression.

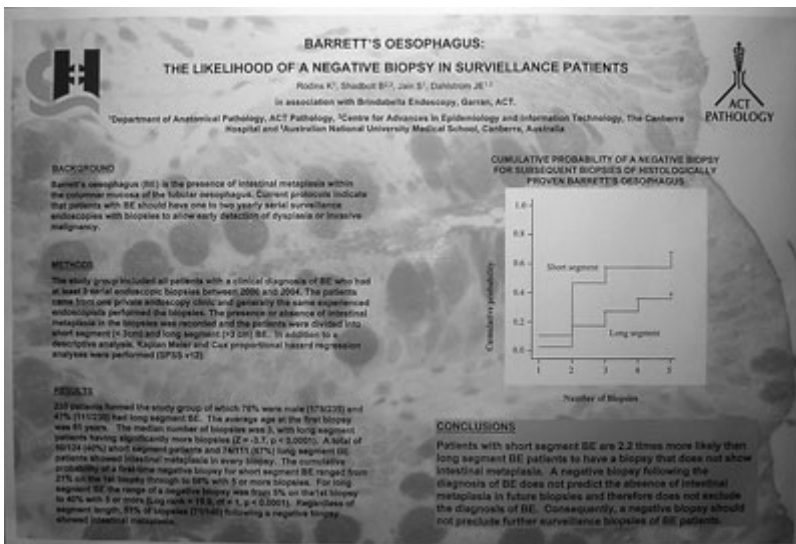
Pathologist/Scientist Commendation – Dr Liqing Zhuang, Royal Prince Alfred Hospital, Sydney.

Examination of Death Receptors (DR4 and DR5) for Tumour Necrosis Factor-Related Apoptosis-Inducing Ligand (TRAIL)



Registrar Winner – Dr Patrick Lai, Pathcentre, Perth.

Quality Assurance (QA) IN Cervical Biopsies: Review of Slides, P16 & MIB-1 Immunohistochemistry, & Human Papillomavirus (PHV) DNA PCR



Registrar Commendation – Dr K Rodins, ACT Pathology, Canberra.

Barrett's Oesophagus: What is the Likelihood of a Negative Biopsy in Surveillance Patients?

Richard Jaworski continues to run the website of the Division.

The 2006 meeting will be held at the Darling Harbour Convention Centre, Sydney, June 1-3, 2006. It will be based on Uro-oncology. The speakers will be Dr David Grignon, Professor of Pathology at Wayne State University Michigan, and Dr William Murphy recently from the University of Florida.

David is an internationally renowned speaker with a particular interest in renal malignancies, and Bill has had a longstanding interest in bladder tumours and prostate cancer. All these topics are important to the practising pathologist as there are ongoing controversies in staging and grading.

I would like to encourage current members of the IAP to convince younger pathologists to join.

There are multiple benefits to being a member. These are subsidised fees for our local meeting as well as the international and American meetings. It is through our subscription fees and our annual meeting that we are able to continue as a successful division of the IAP. In particular I would like to encourage registrars to join. The 2006 meeting will have a specific session devoted to registrars. This would involve a practical approach to aspects of pathology and will be exclusively for people in training.

The committee is also looking to support pathologists from our region to come to Australia for our annual meeting and to visit laboratories whilst here. It is an important part of our Division's philosophy to foster relationships with our regional colleagues.

If anyone is interested in helping or nominating particular people, I would encourage you to write to me.

John Pedersen, President.

Meet the new
Executive



Left to right; Stephen Fairy, Jane Nankervis and John Pedersen

John Pedersen works at Tissupath and the Alfred Hospital in Melbourne. His research interests include prostate cancer, stem cells, and fibrosis in Hepatitis C infections. His other interests include breeding Long Horn Wiltshire sheep.

Stephen Fairy holds a B.App.Sci in medical laboratory science and studied medicine at Newcastle University. He trained in Anatomical Pathology at Concord Repatriation General Hospital and ICPMR at Westmead. He has been with Douglass Hanly Moir Pathology since 2003. His main professional interests are in the field of genitourinary pathology.

Jane Nankervis works at Southern ImL Pathology in Wollongong. She has worked there since completing her training (St George Hospital, Sydney and The Childrens' Hospital at Westmead). Her main areas of interest are gastrointestinal pathology and skin pathology.

Special Executive Meeting **Present:**

John Pedersen, Warick Delprado, Stephen Fairy, Con Theocharous, Jane Nankervis, Veli Marjoniemi, Robin Cooke, Bob Eckstein, Richard Jaworski, Jan McLean, Rayleen Jovanovic

Sydney, The meeting was convened as a "hand over" forum to the new executive.

Wednesday

17th

August

Points discussed:

DVDs

Dr Jaworski opened discussion as to whether to proceed with DVDs for slide seminars. Decided it is the decision of the convenor whether to provide DVDs, CDs or glass slides.

Yearly Schedule

Dr Delprado advised the meeting of the general schedule for the year.

Meeting advised that the ASM brochure is usually sent out to members during February, but could be sent earlier if ready.

Three mailings are sent out during the year-

February/March contains the international and national newsletters and ASM brochure.

May contains Australasian newsletter advising details of Companion Clubs, international newsletter

November contains new member forms, newsletter, AGM minutes, Annual Accounts

An executive meeting is desired to be held around August to plan the meeting details.

Annual subscription invoices sent out end November for subscription year 1 December to 31st November

Congress 2004

Dr Cooke reported the profit from the Congress at \$84961

The accounts had been audited by KPMG who had also made the final accounting adjustments, including reconciling the Congress National Bank Account.

The shared profit amount of \$42,500 to the IAP will be the third largest on record.

Annual Scientific Meeting

Dr Pedersen had checked with the RCPA re timing of the registrars examinations and informed that the date is set close to our meeting for the foreseeable future.

Discussion followed whether to hold a registrar session on the Sunday afternoon, similar to short courses that would be dedicated to registrar teaching.

Dr Delprado suggested a registrar session could be held on the Friday mid morning to run parallel to companion meetings.

Newsletter Editor

Dr Cooke suggested it could be time to enquire if anyone else interested to take on the position of Editor. He is happy to continue for the present.

Sponsorship

Discussion as to whom the division could sponsor to attend the national meeting. It was suggested two people from South East Asia, either two young pathologists or one young and one senior. The people attending the Beijing meeting are to obtain a few suggestions of names.

Subscriptions

Meeting decided to leave the cost of subscription at the present level.

Annual Dinner

It was decided to continue holding the Annual Dinner. A venue is to be sought.

Instant Feedback gadgets

Dr Pedersen advised he was looking into hiring Feedback handheld gadgets for an interactive session at the ASM.

**XXVI
International
Congress of the
International
Academy of
Pathology**

**September
16 - 21,
2006 in
Montreal,
Quebec,
Canada**



Preparations are well underway for the 100th Anniversary Congress of the IAP to be held in Montreal.

Visit www.iap2006.com to review the preliminary scientific and social programs. For this unique anniversary celebration, we are also planning a number of special events, including the preparation of a time capsule destined for our fellow pathologists in the years to come, to which you will be invited to contribute.

To better confirm and manage your participation, the Congress is moving to an exclusively online registration process. Poster abstracts, congress registration and hotel bookings will all be available at www.iap2006.com in the fall.

Plan now to come to Montreal to participate in the celebration of the 100th anniversary of the Academy.

Rick Fraser
Congress President

ASM Dates

Dates of future Annual Scientific Meetings of the Australasian Division of the IAP

2007 June 1 - 3

2008 May 30 - June 1

2009 June 12 - 14

2010 June 4 - 6

**Slide Seminar
Books with CDs**

Some of these seminars are still available. They are useful dissertations on the various topics covered in the Slide Seminars at the Congress.

Price \$22 plus postage. (A real bargain.)

Order from Jan McLean at the IAP secretariat.

Email: janm@rcpa.edu.au

**Secretary's
Report**

2006 sees a number of changes to the Board of the Australasian Division of the IAP. Warick Delprado completed his successful term as President, but will continue to serve on Board as Past President. John Pedersen has the honour of becoming the next President. Brett Delahunt is President Elect. Stephen Fairy is Secretary and Jane Nankervis is Treasurer.

Perhaps the most notable change to the Executive is the departure of Con Theocharous and Veli-Matti Marjoniemi. Both leave the Board with long and distinguished records of service. Con has served tirelessly in his capacity as secretary for an unprecedented 10 years and it is not without some sense of trepidation that I take his place. Having served as treasurer for 6 years, Veli also elected to stand down from this position.

On behalf of the membership, the incoming Board wishes to pass on to Con and Veli its gratitude for the enormous contribution they have made to the Division and to congratulate them on their many achievements.

Other Members of the Board

Councillors:

New South Wales - Drs R. Jaworski & V. Howard

Victoria - Dr D. MacGregor

Queensland - Dr J Kencian

South Australia - Dr D. Ellis

Tasmania - Dr A. Parker

Western Australia - Dr B. De Boer

New Zealand - Dr D. Kenwright

IAP Representatives

Vice President, Australasia

Dr R. Eckstein

IAP President Elect

Prof K. Muller

Editor Newsletter

Prof R. Cooke

Stephen Fairy, Hon. Secretary

**Trends in
Surgical
Pathology**

This meeting will be held in the Frank Packer Education Centre, Royal Prince Alfred Hospital on the 16th of November, 2005 commencing at 6.30pm.
Refreshments will be provided.

This is an annual slide seminar meeting held under the auspices of the Royal College of

Pathologists of Australasia.

Nine cases will be presented by pathologists and registrars from teaching hospitals and private practices in Sydney and adjacent large centres.

Many of the cases will illustrate special techniques that have helped in the diagnosis.

This year some slides will be scanned onto DVDs to enable a wider range of cases to be presented, and to include some with only a small amount of biopsy material available.

It is as yet uncertain how much the DVDs and slide sets will cost. This will be announced in one of the forthcoming College newsletters.

As previously, the commentaries will be mailed with the slides and DVD's for those unable to attend the meeting.

For more details and/or an order form for the slide sets, please phone or email one of us.

Cate Trebeck and Julie Fletcher, Convenors.

Ph 02 98555543 and 02 97677442

Email: ctrebeck@dhm.com.au or fletcherj@email.cs.nsw.gov.au