

# CURRICULUM VITAE

**Name:** Mark John SMYTH

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## **Education:**

1981 – 1983 B.Sc. University of Melbourne (Biochemistry/Pathology)  
1984 B.Sc. (Hons.) University of Melbourne (H1) (Pathology)  
1985 – 1988 Ph.D., Research Centre for Cancer and Transplantation, Department of Pathology,  
University of Melbourne  
June 1987 - July 1987 Farmitalia Carlo Erba, Milan, Italy

## **Current Appointment:**

Senior Scientist, Immunology Department Coordinator  
Head of Immunology in Cancer and Infection Laboratory  
QIMR Berghofer Medical Research Institute  
NH&MRC Senior Principal Research Fellow

## **Position and Responsibility:**

At the QIMR Berghofer Medical Research Institute, I am one of nine Senior Scientists and Head of the Immunology Department (21 Laboratories, ~188 staff) and Head of the Immunology in Cancer and Infection Laboratory (22 staff and 7 PhD students).

## **Other Appointments Currently Held:**

2012- Honorary Professor, University of Queensland  
2013- Honorary Professor, Queensland University of Technology

## **Executive Summary**

### **POSITION AND RESPONSIBILITY**

I am a NH&MRC Senior Principal Research Fellow, Senior Scientist (one of nine at QIMR), Immunology Department Coordinator and Head of the Immunology in Cancer and Infection Laboratory at the QIMR Berghofer. I am a CIA on a NH&MRC Program Grant (2018-2022). I am a Fellow of the Australian Academy of Science and the Australian Academy of Health and Medical Sciences and a former NH&MRC Australia Fellow.

### **MAJOR ORIGINAL RESEARCH CONTRIBUTIONS**

I am regarded as a world leader in several fields including currently: tumour immunology and natural killer (NK) biology; and in the past: lymphocyte-mediated mechanisms of cell death and multi-drug resistance and NKT cell biology. Key past and recent primary papers in these fields and reviews in premier immunology journals are outlined below. I currently have 608 peer-review papers and 19 book chapters published or in press, with a large proportion of these in the highest impact journals. These papers have attracted a total of 74,087 citations and 34,918 since 2014. My H-index is currently 143 (M index = 4.2, i10 index = 504, Google Scholar – Jan 2019). I am the most highly cited immunologist in Australia and one of the world's highest in tumor immunology. Initially, I was intimately involved in isolating and describing the transcriptional control and function of lymphocyte cytotoxic granule proteins, and since 1998 I have established a broad program of research focussed on understanding the biological functions of killer lymphocyte cells and proteins and exploring the potential of cytokines and cytotoxic lymphocytes in natural tumor immunity and cancer immunotherapy. Major highlights include:

- first characterised the specificity and transcriptional regulation of perforin and lymphocyte effector function.
- helped dissect the major players in lymphocyte-mediated apoptosis.

These studies collectively culminated in my 1995 Australian Academy of Science Gottschalk Medal.

- described a new function for P-glycoprotein.

For this work, I won the 1998 AMGEN Medical Research Award.

- first defined a role for NK and NKT cells in tumor immune surveillance.
- proved that lymphocyte-mediated cytotoxicity was important in cancer immune surveillance.
- first defined a physiological role for TRAIL as a tumor suppressor.

These studies collectively rekindled world-wide interest in cancer immune surveillance, substantiating the concept, and focusing greater attention on the function of NKT cells and TRAIL. For this work, I was awarded two international general immunology and cancer research prizes, namely the 2002 William B. Coley Award (USA) and more recently the biennial 2007 Charles Rodolphe Brupbacher Foundation Prize (Switzerland). I am the youngest ever recipient of both these awards.

- made key discoveries linking NK cells and adaptive T cell control of tumors and viruses.
- defined a role for NKG2D in cytokine and host protection from tumor initiation.
- demonstrated a unique combination of pathways that can potently reject established cancers in mice.
- first defined immune-mediated dormancy of cancer.

This study is amongst my most important work to date.

- defined CD73 as a new target of cancer immunotherapy.
- defined CD96 a novel immune checkpoint.
- defined antitumor activity of co-targeting of CD73 and A2AR.
- defined NK cell conversion to ILC1 in tumors.
- defined superiority of neoadjuvant immunotherapy over adjuvant immunotherapy.
- defined bone marrow IL-18 as critical in the prognosis and progression of multiple myeloma.

### **MAJOR PRIZES AND DISTINCTIONS**

2017	Fellow of Australian Academy of Science
2015	QIMR Berghofer Ralph Doherty Prize
2015-2018	Thomson Reuters Highly Cited Researchers – Immunology
2015	Fellow of Australian Academy of Health and Medical Sciences
2014	Highest ranked NH&MRC Development Grant
2014	Highest ranked NH&MRC Research Fellowship
2014	NH&MRC Senior Principal Research Fellowship
2010	NH&MRC Australia Fellowship
2009	Glaxo Smith Kline Award for Excellence

2007	Charles Rodolphe Brupbacher Prize
2006	NH&MRC Senior Principal Research Fellowship
2002	Cancer Research Institute William B. Coley Medal
1998	AMGEN Medical Research Award
1995	Australian Academy of Science Gottschalk Medal

#### CAREER FELLOWSHIPS

2014 NH&MRC Senior Principal Research Fellowship; 2010 NH&MRC Australia Fellowship; 2006 NH&MRC Senior Principal Research Fellowship; 1999&2003 NH&MRC Principal Research Fellowships; 1994-98 Wellcome Trust Senior Research Fellowship in Medical Science (Aust/NZ); 1993 NH&MRC R. Douglas Wright Research Fellowship; 1989-92 NH&MRC C. J. Martin Fellowship; 1988-89 NIH Fogarty Visiting Fellowship

#### PROFILE AND STANDING AT INTERNATIONAL AND NATIONAL LEVEL

I have been awarded two prestigious international prizes in basic immunology and cancer research and most recently the national GSK Award (see above). I currently hold a NH&MRC Program grant and a NH&MRC Project grant. Past International grant support from 1993-2017 includes international grants from the NIH, Human Frontiers in Science Program, Susan G. Komen Foundation, AICR, Leukemia and Lymphoma, Wellcome Trust, US Army DOD, and Cancer Research Institute. Nationally - NH&MRC (for 19 years), ACRF, MSA, VBCRC, Leukemia Foundation, VCA, CCV and CCQ. Collectively, totaling >\$AUS65M. Since 2013, I have received more than 40 invitations to speak/chair at major international immunology/cancer conferences, including many plenary presentations and the prestigious Ashley Dunn orations. I have regularly reviewed many international grants (NIH, EuroCom, HFSP, Wellcome, cancer grants for multiple countries etc.), regularly reviewed for premier journals (Cell and Nature journals, Science, J. Exp. Med.), and regularly been invited to write reviews (Science, Nature journals, Immunity). I am an Editorial Board member at Science and a Senior Editor at Cancer Immunology Research. I am on the Editorial boards of Oncoimmunology, Immunotherapy, Frontiers in Molecular and Cellular Oncology and The Faculty of 1000. I was on the Editorial Board of The Cancer Research (2009-2017), Journal of Biological Chemistry (2005-2010), The Journal of Leukocyte Biology (2004-2015) and Clinical and Translational Immunology. I was invited to review a major general foreign national science prize in 2008 and organize 2011 and 2016 Keystone Meetings. I am on the Scientific Advisory Board of the Cancer Research Institute (USA).

#### SERVING THE DISCIPLINE AND TEACHING

I have also regularly served on NH&MRC GRP, CDA or Fellowship panels, and with the Australasian Society for Immunology and local branch since 1995. I have trained/supervised 34 post-docs and 31 post-graduate students - some have won Pfizer Fellowships, NH&MRC RD Wright and Doherty Fellowships, the Premiers Award, or the Victoria Fellowship. I founded the Cancer Research Institute Pre-doctoral Emphasis Program in Tumour Immunology in Melbourne (2004-2014) that trained 14 PhD graduates.

#### RESEARCH APPLICATIONS

My Ph.D. studies culminated in four patents and phase I clinical trials in cancer patients. Subsequently, Farmitalia Carlo Erba (Italy) shared our technology and the immunosuppressive properties of Idarubicin-mAb conjugates resulted in R &D syndicate funding of over \$3 million to the Austin Research Institute. I have lodged a number of patents in the past five years, and my research has resulted in the foundation of two start-up companies. I have been and am a consultant to multiple major pharma for the clinical development of immunotherapeutics, including membership of a number of scientific advisory boards. I have served as an expert witness on patent challenges. Clinically, I have been integral in developing a Phase I trial in adoptive immunotherapy of genetically engineered T cells (the first of its kind in Australia), and new trials of Her2 targeted therapies in combination with anti-PD1 (PANACEA), combination radiotherapy and T cell checkpoint blockade, and combination neoadjuvant anti-PD-1 and anti-RANKL in NSCLC (POPCORN). I have attracted pharmaceutical support for pre-clinical studies from Bristol Myers Squibb (BMS), Corvus Pharmaceuticals, Medimmune, Tizona Therapeutics, Aduro Biotech, GSK, Novartis, Pfizer, AMGEN and Costim. Patent IP on adoptive cellular therapy was licenced to Juno in 2015 for undisclosed upfront, R&D program and milestones and royalties. Patent IP was licenced to Tizona Therapeutics for undisclosed upfront, R&D program and milestones and royalties. Patent IP on CD96 was licenced to BMS in 2015 for undisclosed upfront, R&D program and milestones and royalties.

## **Previous Appointments:**

2007-2013	Honorary Professor, University of Melbourne
2007-2013	Honorary Professor, Monash University
Mar 2000-Mar 2013	Program Head, Cancer Immunology Program, Peter MacCallum Cancer Centre, Melbourne, Australia
Apr 2010-Mar 2013	NH&MRC Australia Fellow, Peter MacCallum Cancer Centre, Melbourne, Australia
Jan 2007-Mar 2010	NH&MRC Senior Principal Research Fellow, Peter MacCallum Cancer Centre, Melbourne, Australia
Jan 2004-Dec 2006	NH&MRC Principal Research Fellow, Peter MacCallum Cancer Centre, Melbourne, Australia
Mar 2000-Dec 2003	NH&MRC Principal Research Fellow, Peter MacCallum Cancer Centre, Melbourne, Australia
Jan 1999-Mar 2000	NH&MRC Principal Research Fellow, Austin Research Institute, Melbourne, Australia
1998-2000	Associate Professor, Victoria University of Technology
1998-2000	Senior Fellow in the Department of Medicine, Austin and Heidelberg Repatriation Medical Centre
1996-1998	Senior Associate in the Department of Pathology, University of Melbourne
Jan 1994 – Dec 1998	Wellcome Trust Senior Research Fellow in Medical Science, Austin Research Institute, Melbourne, Australia
1993-	Senior Associate in the Department of Surgery, Austin and Heidelberg Repatriation Hospitals, University of Melbourne
Jan 1993 – Dec 1993	R.Douglas Wright Research Fellow of the National Health and Medical Research Council of Australia, Austin Research Institute, Melbourne, Australia
Dec 1991 – Jan 1993	C.J. Martin Fellow of the National Health and Medical Research Council of Australia, Austin Research Institute, Melbourne, Australia
Dec 1989 – Dec 1991	C.J. Martin Fellow of the National Health and Medical Research Council of Australia, Frederick Cancer Research and Development Center, NCI, USA
Dec 1988 – Dec 1989	Visiting Fellow, Fogarty Visiting Program, Frederick Cancer Research and Development Center, NCI, USA
April – Dec 1988	Research Fellow, Grade I, Research Centre for Cancer and Transplantation, University of Melbourne, Australia

## **Individual honours, awards and prizes:**

1984-87	Commonwealth Postgraduate Scholarship, University of Melbourne.
1988-89	NIH Fogarty Visiting Fellowship.
1989-92	NH&MRC C.J. Martin Fellowship.
1991	NCI -FCRDC Certificate of Appreciation for Outstanding Performance.
1992	Sandoz Young Investigators Award (TSANZ - Canberra).
1993	Australian Life Sciences Research Award.
1993	NH&MRC R. Douglas Wright Research Fellowship.
1994-98	Wellcome Trust Senior Research Fellowship in Medical Science.
1995	Australian Academy of Science Gottschalk Medal.
1998	AMGEN Medical Research Award.
1999-2003	NH&MRC Principal Research Fellowship.
2002	Cancer Research Institute, William B. Coley Award for Distinguished Research in Basic and Tumour Immunology.
2003	Commonwealth Health Minister's Award for Excellence in Health and Medical Research – Finalist
2004-2008	NH&MRC Principal Research Fellowship renewal.
2007-2011	NH&MRC Senior Principal Research Fellowship promotion.
2007	Charles Rodolphe Brupbacher Foundation Prize.
2007	Gordon Ada Oration, ASI, Sydney.
2009	Glaxo Smith Kline Award for Excellence.
2009	ASI Gordon Ada Award.

2010	NH&MRC Australia Fellowship
2011-	Member of Academy of Cancer Immunology, Cancer Research Institute, USA
2011-	Elected to European Academy of Tumor Immunology
2012	Career Award, European Academy of Tumor Immunology
2015	Fellowship of the Australian Academy of Health and Medical Sciences
2015	Ranked 1 <sup>st</sup> NH&MRC Research Fellowships 2014 round
2015	Ranked 1 <sup>st</sup> NH&MRC Development Grants 2014 round
2015	Thomson Reuters Highly Cited Researchers – Immunology
2015	QIMR Berghofer Ralph Doherty Prize
2017	Fellowship of the Australian Academy of Science

### **Travel awards:**

1989	Society for Leukocyte Biology Travel Award (Hilton Head, USA).
1992	Sandoz Young Investigators Travelling Fellowship (TSANZ - Paris).
1993	EMBO Travel Award (EMBO-CMC Workshop - Neve Ilan, Israel).
1995	American Association of Immunologists Travel Award (San Francisco, USA).
1995	National Science Foundation Nevada EPSCoR Travel Award (Reno, USA).
1997	EMBO Travel Award (EMBO-CMC Workshop – Kerkrade, The Netherlands).
1998	Australian Academy of Science, Scientific Visits to Germany Scholarship.
2001	Ian Potter Foundation Travel Award (Stockholm, Sweden)
2005	Aegean Travel Award

### **Present Grant Support: (\*International)**

Apr 2015-Jan 2020	NH&MRC Senior Principal Research Fellowship (1078671) (\$AUS 911, 915): <b>M. J. Smyth.</b>
2018-2022	NH&MRC Program Grant (1132519) (\$AUS 1,862,547 p/a, \$AUS 9,312,735 in total): Immunotherapy in cancer and virus infection. <b>M. J. Smyth</b> , R. Khanna, S. R. Burrows, and D. M. Thomas.
2017-2020	NH&MRC Project Grant (1124784) (\$AUS 959,596): Identification of CIS as a potent checkpoint in NK cell-mediated tumour immunity. N. D. Huntington, <b>M. J. Smyth</b> , E. Vivier, and S. Nicholson.
2018-2019	Cancer Council of Queensland (1140251) (\$AUS 200,000): Inhibiting ILC1 formation in cancer. <b>M. J. Smyth.</b>
*June 2017-2019	Cancer Research Institute, Clinical and Laboratory Integration Program (CLIP) Grant (\$US 200,000): Targeting NK cell transdifferentiation in cancer. <b>M. J. Smyth.</b>
*July 2017-July 2019	Tizona Therapeutics (\$US1,260,000): Sponsored Research Agreement. <b>M. J. Smyth</b>
* Aug 2018-Dec 2019	Bristol Myers Squibb Research Agreement (\$US 2,975,000). <b>M. J. Smyth</b>
2018	Aduro Biotech (\$US180,000): Sponsored Research Agreement. <b>M. J. Smyth</b>
2018-2019	Bristol Myers Squibb Research Agreement (\$US 566,182). Sponsored Research Agreement. <b>M. J. Smyth</b>
2018	AMGEN ISS: 20177440 (\$US697, 368). Pre-surgical evaluation of anti-PD1 with Denosumab in patients with operable stage I-III NSCLC. B. Hughes, W. C. Dougall, <b>M.J. Smyth</b> , M. W. L. Teng, E. Ahern

### **Past Project Grant Support:**

- \* Aug 2017-Aug 2018 Bristol Myers Squibb Research Agreement (\$US 2,250,000). **M. J. Smyth**
- \*2017 Aduro Biotech (\$US350,000): Sponsored Research Agreement. **M. J. Smyth**
- 2017 Australian Cancer Research Foundation Equipment Grant: The ACRF Centre for Advanced Cellular Immunotherapy. AUS \$1,750,000. G. R. Hill, R. Khanna, **M. J. Smyth**, S. Tey, K. MacDonald, M. Teng, C. Smith.
- 2016-2017 Cancer Council of Queensland (1102242) (\$AUS 200,000): Checkpoint blockade and denosumab in the treatment of established primary and metastatic cancers. **M. J. Smyth**.
- 2015-2017 NH&MRC Development Grant (1093566) (\$AUS 796,046): Development of CD96 antibodies for cancer treatment. **M. J. Smyth** and J. Miles
- 2017-forfeited CIA NH&MRC Project Grant (1120887) (\$AUS 587,857): Co-inhibition of adenosine generation and signalling: a new combination cancer therapy. **M. J. Smyth** and M. W. L. Teng
- 2016-2017 forfeited CIA NH&MRC Project Grant (1098960) (\$AUS 739,234): New target pathway for cancer therapy. **M. J. Smyth** and M. W. L. Teng.
- \*2016-2017 Corvus Pharmaceuticals (\$US243,176): Research Collaboration Agreement. **M. J. Smyth**
- \*Aug 2015- Aug 2017 Bristol Myers Squibb Research Agreement (\$US 3,150,000). **M. J. Smyth**, J Miles.
- \*June 2015-2017 Cancer Research Institute, Clinical and Laboratory Integration Program (CLIP) Grant (\$US 200,000): The pre-clinical validation of CD96 as a checkpoint target for cancer immunotherapy. **M. J. Smyth**.
- 2016-2017 ASSC Project Grant (\$AUS 47,000): "Immune contexture of transforming naevi". **M. J. Smyth**, M. W. L. Teng, R. Khanna, R. Sturm, M. Stark, H. Schaidler, B. Gabrielli.
- 2012-2016 NH&MRC Program Grant (1013667) (\$AUS 2,523,044 p/a, \$AUS 12,615,220 in total): Immune regulation, effector function and therapy. **M. J. Smyth**, J. A. Trapani, R. W. Johnstone, D. I. Godfrey, H. M. Prince, and M. H. Kershaw.
- \*Jul 2012- Jul 2016 Susan G. Komen Breast Cancer Foundation Program Grant (IIR12221504) (\$US 900,000): 'Targeting CD73 for the treatment of triple negative breast cancer'. J. Stagg and **M. J. Smyth**.
- 2015-2016 Cancer Council of Queensland (1083776) (\$AUS 200,000): A new checkpoint target of cancer immunotherapy. **M. J. Smyth**.
- \*2016 Aduro Biotech (\$US270,720): Sponsored Research Agreement. **M. J. Smyth**
- \*Sept 2015-Aug 2016 MedImmune. Sponsored Research Agreement (\$US 317,196) **M. J. Smyth**.
- \*Sept 2015-Aug 2016 Cancer Research Institute, Clinical Strategy Team Grant (\$US 355,248): Targeting adenosine in the tumor microenvironment. **M. J. Smyth**, G.V. Long, R.S. Scolyer, J. Stagg, S. Antonia.
- 2011-2015 Centre for Research Excellence in Asbestos Related Diseases (CRE) 1001020 (\$AUS 10,000 pa., \$AUS 50,000 total). **M. J. Smyth**., B. Robinson (PI)

2013-2015 NH&MRC Project Grant (1044392) (\$AUS 617,503): New molecules that regulate cancer immunity and therapy. **M. J. Smyth** and D. S. Ritchie.

\*July 2014-Jun 2015 Bristol Myers Squibb (\$AUS 95,382): The combination effect of anti-CTLA-4 and anti-RANKL. **M. J. Smyth**.

Apr 2010-Mar 2015 NH&MRC Australia Fellowship (628623) (\$AUS 4,000,000): **M. J. Smyth**.

\*2010-2013 Cancer Research Institute Post-doctoral Tumor Immunology Emphasis Program (educational program for PhD and MD students) (\$US 450,000): **M. J. Smyth**, J. A. Trapani, J. McCluskey, D. I. Godfrey, A. Scott, and W. Chen.

\*Jul 2013-Jul 2014 MedImmune. Sponsored Research Agreement. Human anti-human CD73 antibodies. (\$US 346,467) J. Stagg and **M. J. Smyth**.

2013 Australian Cancer Research Foundation (ACRF) Equipment Grant. The ACRF Centre for Comprehensive Biomedical Imaging (\$AUS 2,600,000). G. R. Hill, **M. J. Smyth**, A. Boyd, K. Khanna, P. Parsons, S. Lane, A. Moller, K. MacDonald.

\*October 2013- Costim Pty Ltd, Sponsored Research Agreement. Targeting Tim3 in cancer (\$US 24,800).

Nov 2013- Proof of Concept Award, QIMR Berghofer Medical Research Institute (\$AUS 96,825). **M. J. Smyth** and L. Martinet

Jan 2014 Rio Tinto Ride to Conquer Cancer Research Grant 2013 (RTCC130008). The role of the atypical chemokine receptor CCRL1 in intra-tumor lymphoid neogenesis (\$AUS 100,567). **M. J. Smyth** & C. Guillerey

Jan 2014 Rio Tinto Ride to Conquer Cancer Research Grant 2013 (RTCC130004). Combination of BRAF inhibitor and immunotherapies in BRAF-mutated melanoma (\$AUS 102,024). **M. J. Smyth** & S-F. Ngiow

Apr 2014 2013 Weekend to End Women's Cancers Grant. Targeting suppressive TGF- $\beta$ R, IL-10R and A<sub>2A</sub>R pathways in natural killer cells: enhancing the innate anti-metastatic response against breast cancer progression (\$AUS 51,471). F.S.F Guimaraes & **M. J. Smyth**

2011-2013 Cancer Council Victoria (1003336): (\$AUS 292,000): Immunoregulation of tumor microenvironment. **M.J. Smyth** & M.W. Teng.

2010-2013 Victorian Cancer Agency (\$AUS 2,800,000 - \$AUS 203,500 pa)(EOI09\_71): Translational research program in sarcomas. D. Thomas, **M. J. Smyth**, N. Watkins and J. Desai.

2009-2012 Leukemia and Lymphoma Society. (\$US 600,000) Extension to "A phase I study investigating the tolerability, safety and biological parameters of an infusion of autologous peripheral blood T lymphocytes transduced with an anti-LewisY chimeric receptor gene in patients with LewisY positive multiple myeloma." H. M. Prince, S. Peinhert, **M. J. Smyth**, L. Kravets, J. A. Westwood, P. K. Darcy, P. Neeson, D. Ritchie, M. H. Kershaw.

2012-2013 Victorian Cancer Agency, Scheme B Clinical Trials Capacity Building "Training the Next Generation of Translational Immunology Cancer Research Clinicians." (\$AUS 250,000): D. Ritchie (**M. J. Smyth**, AI).

2012 Victorian Cancer Agency, Prostate Cancer Collaborative Research Grant, CAPTIV (\$AUS 2,000,000). Consortium lead by M. Frydenburg, D. Pook, I. Davis, S. Williams, J.

- Millar, J. Pedersen, D. Murphy, N. Lawrentshuk, G. Risbridger, A. Costello, Y. Haupt, **(AI M. J. Smyth)**.
- 2010-2012 NHMRC Project Grant 628302 (\$AUS 662,000): “Novel mechanisms of inflammation amplified by lymphocytes.” **M. J. Smyth** & D. M. Andrews.
- \*2009-2011 Pfizer TORCH grant (\$AUS 110,00 p/a): Combining radiotherapy and monoclonal antibody therapy for the treatment of breast cancer. **M.J. Smyth**, N. M. Haynes.
- 2009-2012 Victorian Breast Cancer Consortium (\$AUS 1,288,500): Development and testing of novel anti-breast cancer therapies. R. W. Johnstone, **M. J. Smyth**, R. Hannan, R. Pearson, S. Loi.
- 2007-2011 NH&MRC Program Grant (454569) (\$AUS 2.162 million p/a (\$AUS 10.81 million in total): Immune regulation, effector function and human therapy. J. A. Trapani, **M. J. Smyth**, R. W. Johnstone, D. I. Godfrey, and H. M. Prince.
- \*2008 (Nov19)-2011 Susan G. Komen Breast Cancer Foundation Program Grant (KG080035) (\$US 600,000): ‘Combination chemo-immunotherapy for established breast cancer’. **M. J. Smyth** and R. W. Johnstone.
- \*2010-2011 Amgen Research Agreement (\$US 179, 919): Examination of the role of mIL-23p19 (p19) and mIL-12p40 (p40) in experimental and spontaneous models of tumour development. **M. J. Smyth** and M. W. L. Teng.
- \*2008 (Oct1)-2011 Association of International Cancer Research (183,000 pounds): ‘Can the immune system and tumour be in a state of equilibrium.’ **M. J. Smyth**.
- \*2007-2010 Cancer Research Institute Post-doctoral Tumor Immunology Emphasis Program (educational program for PhD and MD students) (\$US 450,000): **M. J. Smyth**, J. A. Trapani, R. W. Johnstone, J. McCluskey, D. I. Godfrey, A. Scott, J. Cebon, I. Davis, S. Turner, T. Johns, and W. Chen.
- 2009-2010 Prostate Cancer Foundation of Australia (\$AUS 300,344): Cell death and mobilizing immunity for the treatment of established prostate cancer. **M. J. Smyth** and R. W. Johnstone.
- \*2009-10 Amgen Research Agreement (\$US 223,179): Examination of the role of mIL-23p19 (p19) and mIL-12p40 (p40) in experimental and spontaneous models of tumour development. **M. J. Smyth** and M. W. L. Teng.
- 2008-2010 Cancer Council Victoria: (\$AUS 300,000): Combined chemo-immunotherapies that eradicate established tumors. **M.J. Smyth**.
- 2009 Leukemia Foundation: (\$AUS 100,000): Development of new therapeutic approaches to treat leukaemia and lymphoma. R.W. Johnstone, **M. J. Smyth**.
- 2007-2009 NHMRC Project Grant 458761 (\$AUS 547,315): “Determining the mechanisms that regulate long-term anti-viral immunity.” M. A. Degli-Esposti, & M. J. **Smyth**.
- 2007-2010 NHMRC Senior Principal Research Fellowship (454699) (\$AUS 757,250): **M. J. Smyth**.
- \*2008 US Army Breast Cancer Concept Award (\$US 75,000): ‘Role of CD73 (ecto-5-nucleotidase) in breast cancer and characterization of anti-CD73 monoclonal antibody (mAb) therapy’. **M.J.Smyth** & J. Stagg.

- \*2004-2008 National Institutes of Health (1R01CA106377) (\$US 800,000): “The regulation of tumour immunity by NKT cells.” **M. J. Smyth.**
- \*2007-2008 Novartis: (\$AUS 368,000): Combination studies with LBH589 and the XIAP inhibitor LBW242 and the agonist anti-DR5 antibody MD5.1 with Novartis. R. W. Johnstone & **M.J. Smyth**
- \*2005-2007 Leukemia and Lymphoma Society. (\$US 600,000) “A phase I study investigating the tolerability, safety and biological parameters of an infusion of autologous peripheral blood T lymphocytes transduced with an anti-LewisY chimeric receptor gene in patients with LewisY positive multiple myeloma.” D. Honemann, M.H. Kershaw, P. K. Darcy, **M. J. Smyth**, J. A. Trapani, M. Prince, D. Ritchie, D. Wall, R. Hicks, A.Scott
- \*2006-2008 Susan G. Komen Breast Cancer Foundation Program Grant (BCTR0600585)(\$US 250,000: ‘Combination immunotherapy of established breast cancer’. **M. J. Smyth.**
- 2005-2007 Cancer Council Victoria: (\$AUS 210,000): “TRAIL-mediated immunosurveillance, immunoselection and immunotherapy of cancer.” **M.J. Smyth**
- \*2004-2007 Association of International Cancer Research (AICR 04-029) (125,000 pounds): “The double-edged sword of NKT cells in tumour immunity.” **M. J. Smyth.**
- 2004-2008 NH&MRC Principal Research Fellowship (220015) (\$AUS 456,813): **M. J. Smyth.**
- 2003-2007 NH&MRC Program Grant (251608) total \$AUS 6.31 million awarded: ‘Immune regulation, effector function and therapy.’ **M.J. Smyth**, J. A. Trapani, R. W. Johnstone & D. I. Godfrey.
- \*2006 US Army Breast Cancer Concept Award (\$US 75,000): “Characterization of the immune modulatory effect of regulatory T cells on NK cells during breast cancer for the development of novel therapeutic strategies”. **M.J.Smyth** & J. Stagg
- \*2004-2006 Susan G. Komen Breast Cancer Foundation Program Grant (BCTR0402942) (\$US 250,000): ‘Immunogene therapy of breast cancer’. **M. J. Smyth.**
- 2004-2006 NH&MRC Project Grant (303024) (\$AUS 447,750): “Dissecting the molecular effectors and regulators of anti-viral immune responses.” M.A. Degli-Espoti, A.A. Scalzo, & **M. J. Smyth**
- \*2003-2007 Cancer Research Institute Predoctoral Emphasis Program in Tumour Immunology (\$US 450,000): **M. J. Smyth.**
- 2003-2004 Glaxo Smith Kline. (\$AUS 50,000): “The role of NKT cells in IL-18 anti-tumor activity.” **M. J. Smyth**
- \*2001-2004 Human Frontiers in Science Program Grant (RGP0048/2001) (\$US 750,000): ‘Molecular mechanisms that control NK cell-mediated tumor surveillance’ H.Yagita & **M. J. Smyth.**
- \*2002-2003 Susan G. Komen Breast Cancer Foundation Program Grant (BCTR0100396)(\$US 250,000): ‘Immune control of breast cancer’. **M. J. Smyth.**
- 2002-2003 MSA Project Grant (\$AUS 110,000): ‘Natural killer cells: a novel mechanism of suppression of autoimmune demyelination and inflammation.’ **M. J. Smyth.**

- 2001-2003 Anti-Cancer Council of Victoria Project Grant (\$AUS 150,000): 'Immunotherapy of cancer using genetically engineered T cells ' P. K. Darcy, **M.J. Smyth**, & J.A. Trapani.
- 1999-2003 NH&MRC Principal Research Fellowship (\$AUS 500,000): **M. J. Smyth**.
- 2002-2004 NH&MRC Project Grant (209021) (\$AUS 255,000): 'What is the relative role of TNF-related apoptosis-inducing ligand (TRAIL) in tumor immunity?' **M. J. Smyth**.
- 2002-2004 NH&MRC Project Grant (209055) (\$AUS 345,000). 'Novel approaches for activation and expansion of genetically modified T cells in vivo.' P.K. Darcy, **M. J. Smyth** & J. A. Trapani.
- 2002-2004 NH&MRC Project Grant (194252) (\$AUS 240,000): 'NKT cells and tumour immunosurveillance.' D. I. Godfrey & **M. J. Smyth**.
- 2000-2002 NH&MRC Project Grant (118900) (\$AUS 312,000): 'Analysis of the molecular functions of perforin: a critical role in tumor immunosurveillance' **M.J. Smyth** & J. A. Trapani.
- 1999-2003 NH&MRC Project Grant (990127) (\$AUS 1,000,000): 'Natural killer cell-specific proteins and functions' **M. J. Smyth**.
- \*2002 The Wellcome Trust (UK): Equipment Grant. "Flow Cytometry Facility for Cancer Research" (\$AUS 992,000): P. Simmons, P. Kaur, **M.J. Smyth**, R.W. Johnstone, L. Purton.
- 1999-2001 NH&MRC Project Grant (991065) (\$AUS 216,000). 'Characterisation of the anti-apoptotic function of P-glycoprotein' R. W. Johnstone & **M. J. Smyth**.
- 1998-2000 Anti-Cancer Council of Victoria Project Grant (\$AUS 237,000): 'The potential role of cytotoxic lymphocytes in tumour immunotherapy ' **M.J. Smyth**, P. K. Darcy & J.A. Trapani.
- 1998-2000 NH&MRC Project Grant (981916) (\$AUS 237,000): The potential role of cytotoxic lymphocytes in tumour immunotherapy ' **M.J. Smyth**, P. K. Darcy & J.A. Trapani.
- 1998 University of Melbourne Awards for Joint Research Projects Scheme (\$AUS 5,000) : "Effector mechanisms controlled by the natural killer cell gene complex." **M.J. Smyth**, A. Scalzo.
- 1997-99 NH&MRC Project Grant (971337) (\$AUS 159,000): ' A structure/function analysis of cytotoxic lymphocyte perforin' **M.J. Smyth** & J. A. Trapani
- 1997-99 NH&MRC Project Grant (971336) (\$AUS 215,000): ' The regulation and function of natural killer cell-specific granzymes' **M.J. Smyth**
- \*1994-98 Wellcome Trust Senior Research Fellowship in Medical Science. (\$AUS 875,000): **M.J. Smyth**
- \*1998 The Wellcome Trust : Equipment Grant (\$AUS 125,000): J. A. Trapani, **M. J. Smyth**
- 1995-97 Anti-Cancer Council of Victoria Project Grant (\$AUS 174,000): ' A transgenic mouse model for lymphocyte-mediated therapy of cancer' **M. J. Smyth** & J.A. Trapani.

- 1995-97 NH&MRC Project Grant (950872) (\$AUS 174,000): ' A transgenic mouse model for lymphocyte-mediated therapy of cancer' **M. J. Smyth** & J.A. Trapani
- 1994-96 NH&MRC Project Grant (940490) (\$AUS 162,000): 'Novel natural killer cell genes: characterisation and transcriptional control' **M. J. Smyth**
- 1995 Clive and Vera Ramaciotti Foundations: **M. J. Smyth** & B. McInnes
- 1993-94 Anti-Cancer Council of Victoria Project Grant: ' Tumour immunotherapy using cytolytic T cell subsets and bispecific antibodies' **M. J. Smyth** & J.A.Trapani
- \*1988-89 NIH Fogarty Research Grant: **M. J. Smyth** & J.R. Ortaldo.

### **Charitable grants:**

- 2017 ACRF (\$1,750,000): "The ACRF Centre for Advanced Cellular Therapy"  
G. R. Hill, R. Khanna, **M.J. Smyth**, K.MacDonald, S. Tey, M. Teng, C.Smith
- 2013- ACRF (\$2,600,000): "ACRF Centre for Comprehensive Biomedical Imaging"  
G. R. Hill, A. Moller, K. Khanna, S. Lane, A. Boyd, N. Waterhouse, **M.J. Smyth**
- 2007-2009 Peter Mac Foundation (\$AUS 300,000): "Immunotherapy of kidney cancer." M.H. Kershaw & **M. J. Smyth**
- 2006 Peter Mac Foundation (\$AUS 100,000): "Immunotherapy of kidney cancer." **M. J. Smyth** & M.H. Kershaw.
- 2006 Peter Mac Foundation (\$AUS 71,000): "Do wound healing genes control the tumour microenvironment." **M. J. Smyth.**
- 2005 Helen McPherson Smith Trust (\$AUS 105,000): "Anti-cancer blood cell transplantation initiative". M. H. Kershaw & **M. J. Smyth.**
- 2003 The John T Reid Charitable Trust (\$AUS 250,000): "Gene Transfer Suite". M. H. Kershaw, P. K. Darcy & **M. J. Smyth.**
- 1997 The Ian Potter Foundation: Equipment Grant \$AUS 125,000 (Irradiator):  
I. F. C. McKenzie, V. Apostolopoulos, J. A. Trapani, **M. J. Smyth**

### **Memberships of Scientific Societies/Committees:**

- Australasian Society for Immunology (1992-)  
The Transplantation Society of Australia and New Zealand (1992-2000)  
The American Association of Immunologists (1995-)  
Natural Society for Immunity (1999-2007)  
The Australian Society for Medical Research (1999-2006)  
The International Society for Interferon and Cytokine Research (2002-2008)  
The Society for Leukocyte Biology (2004-2011)  
The American Society for Biochemistry and Molecular Biology (2004-2010)  
The European Institute for Integrated Cellular Pathology (2012-)

- NH&MRC Discipline Panel Member 1998, 2000, 2004, 2005  
ACCV National Assigning Panel Member 1998-1999  
ASI State Councillor 2000-2003  
IgV Council Member 1995-2007  
NH&MRC Research Fellowships Committee 2011, 2013, 2015  
NH&MRC Career Development Award Panel Member (2006, 2007, 2008-Chair, 2009, 2012).  
PCFA Grants Committee 2012, 2013-current  
Scientific Advisory Board of the Cancer Research Institute 2012-current

### **Peer review involvement:**

I have been a regular reviewer of national (NH&MRC, Cancer Council, etc.) and international (NIH, EuroCom, CRC, HFSP, Wellcome etc.) peer-reviewed grants for 27 years. In the past I have reviewed Program grants for the European Commission and RO1 for the NIH as an ad-hoc reviewer to the TTT study section. Over the past fifteen years I have had a large number of invitations to review international fellowships, projects and programs from a variety of countries (see below). I have been a member of the NH&MRC Project Grants Discipline Panel (DP) in Immunology, on Research Fellowships and CDA panels, and served as an Assigning Panel member of the National Cancer Councils. My international profile is also supported by numerous invitations to review for and publish reviews/commentaries in leading journals including Science, Nature, Nature Immunology, Nature Medicine, Nature Reviews Cancer, Nature Reviews Immunology, Immunity, J. Exp. Med., BLOOD, Trends in Immunology, Current Opinions in Immunology and Journal of Immunology. For many of these journals, particularly Nature, Nature Immunology, Immunity, JCI, J. Exp. Med, Journal of Immunology, J. Biol. Chem. and BLOOD, I am a regular expert reviewer. I was an Editorial Board Member at the Journal of Biological Chemistry (2005-2010) and Clinical and Translational Immunology (2014-2016), and Section Editor at the Journal for Leukocyte Biology (2004-2015). I am a current Editorial Advisor at Science and Section Editor at Cancer Research and Cancer Immunology Research. I am also on the Editorial Board of Immunotherapy, Cell Stress, Frontiers in Molecular and Cellular Oncology, and OncoImmunology. I am a member of the Faculty of 1000. I am on the Scientific Advisory Board of the Cancer Research Institute since 2012.

**Faculty of 1000 member (Immunology)** (2004-2012, 2013-)

**Consulting Editor:** The Journal of Leukocyte Biology (1997-00).

**Editorial Board:** The Journal of Biological Chemistry (2005-2010).

**Editorial Board:** Cancer Immunity (2012-ceased).

**Editorial Board:** Cancer Immunology Research (2013-2016).

**Invited Section Editor:** Current Opinions In Immunology (2007).

**Invited Section Editor:** Current Opinions In Immunology (2011).

**Section Editor:** The Journal of Leukocyte Biology (2004-2015).

**Senior Editor:** Cancer Research (2009-2017).

**Editorial Board Member:** Science (2016-).

**Senior Editor:** Cancer Immunology Research (2017-).

**Advisory Board:** E Biomedicine (2017-).

**Editorial Board:** Immunotherapy (2008-).

**Editorial Board:** Oncoimmunology (2010-).

**Editorial Board:** Clinical and Translational Immunology (2012-).

**Editorial Board:** Molecular and Cellular Oncology (2013-).

**Founding Editor:** Cell Stress

**Associate Editorial Board:** Frontiers in Molecular and Cellular Oncology (2010-).

**Invited Founding International Member:**

European Research Institute for Integrated Cellular Pathology (ERI-ICP)(2010-).

Member of the European Academy of Tumor Immunology (2010-).

**National Committees:**

NH&MRC Discipline Panel Member Immunology (1998, 2000, 2004, 2005).

NH&MRC Discipline Panel Member Cancer/Oncology (2012 – invited/declined)

NH&MRC Career Development Award Panel Member (2006, 2007, 2008-Chair, 2009, 2012).

NH&MRC Research Fellowships Committee (2011).

National Cancer Councils (for ACCV) Assigning Panel Member (1998, 1999).

Health Research Council of New Zealand (2009 Invited).

Cancer Australia's Priority Driven Collaborative Cancer Research Scheme (2012 – invited/declined)

Prostate Cancer Foundation of Australia Grants Committee (2012-)

Movember and NCF Peer Review Committee (2017- invited/declined)

**Annual Review of National Project Grant Applications for:**

NH&MRC of Australia (1992-current) (2-6 per year).

National Cancer Councils of Australia (1992-current) (1-5 per year).

University of Sydney, Cancer Research Fund (1994-2000) (1-2 per year).  
The Leo & Jenny Leukemia & Cancer Foundation (1995-2008) (1 per year).  
Cure Cancer Australia (2007-2011)(2 per year).  
Sydney Cancer Centre (2006-2007)(1-2 per year).

**Occasional Review of National Project Grant Applications for:**

The Raine Foundation (1996, 1998, 2010).  
Diabetes Australia Research Trust (1999).  
The Thoracic Society of Australia and New Zealand (1999).

**Review of Program, Research Fellowship or Training Applications for:**

NH&MRC of Australia (1/yr).  
The Wellcome Trust (1/yr).  
John Curtin School of Medical Research (several).  
JDRF Diabetes Vaccine Development Centre.  
NIH Tenure (ad hoc).  
Deutsche Forschungsgemeinschaft (DFG), German Excellence Program

**Occasional Review of International Program/Project Grant Applications for:**

European Commission Framework Program Grants (2004, 2005)  
European Research Council (2010, 2012)  
NIH Ad Hoc Study Section (TTT, Experimental Immunology) (2004, 2005)  
Swiss National Science Foundation (2005)  
France National Cancer Institute (2005, 2008)  
French National Research Agency (2009, 2010)  
Israel Science Foundation (2005, 2009, 2010)  
The Wellcome Trust (United Kingdom) (1996-).  
University of Pittsburgh, Pennsylvania (USA) (1994).  
National Institutes of Health (NIH) RO1 Project Grants (USA) (1999-2004).  
Associazione Italiana per la Ricerca sul Cancro (2000, 2001, 2003, 2004, 2010, 2015, 2017).  
Biomedical Research Council of Singapore (2001).  
The Cancer Research Campaign (2000, 2002, 2004).  
Guy's & St Thomas' Charitable Foundation (2002).  
Irish Health Research Board (2002, 2012, 2013).  
The Royal Society of New Zealand – Marsden Fund (2002, 2003, 2012).  
The Netherlands Organisation for Health Research and Development (ZonMw) (2002, 2012, 2013).  
Science Foundation Ireland (2002, 2003).  
The MRC (UK) (2004, 2009, 2010, 2011).  
The Association for International Cancer Research (2006, 2007, 2008, 2009, 2010).  
Austrian Research Fund (2009)  
Health Research Council of NZ (2009, 2010, 2011, 2012)  
Agency for Science, Research & Technology (A\*STAR)(2010, 2011)  
Singapore Immunology Network (2009)  
Swiss Cancer League (2009, 2017)  
The Dutch Cancer Society (2010)  
The Erwin Schroedinger Foundation, Austrian Science Fund (2010)  
Genesis Oncology Trust NZ (2010, 2011)  
BBSRC (2011)  
Cancer Research UK's New Agents Committee (NAC) (2012)  
Skolkovo Foundation (Russia) (2012)  
Auckland Medical Research Foundation (2013)  
The Kay Kendall Leukemia Fund (2014)  
National Science Centre (Poland) (2014)  
Italian Ministry of Health (2015)  
NBCF Innovator Grants Peer Review Committee (2016)  
Technology Foundation STW (Netherlands) (2015)  
Unity through Knowledge/Croatian Science Fund (2015)

Cancer Research UK Review Panel (2018)

**Regular ( $\geq 5$ /year) Manuscript Reviews for:**

Nature Immunology (2001-)  
The Journal of Experimental Medicine (2000-)  
The Journal of Immunology (1995-)  
BLOOD (1998-)  
The Journal of Biological Chemistry (2002-2005)  
Nature (2006-)  
Cancer Research (1998-)  
Cancer Cell (2006-)  
Journal Leukocyte Biology (2000-)  
Journal of Clinical Investigation (2007-)  
Cancer Immunology Research (2012-; 25/06/13)

**Occasional (between 20-30 over last 10 years) Manuscript Reviews for:**

Cell  
Science  
Nature Medicine  
Immunity  
Proceedings of The National Academy of Sciences, USA

**Infrequent (between 1-5 over last 10 years) Manuscript Reviews for:**

Nature Communications (25/06/13)  
Science Translational Medicine  
Molecular and Cellular Biology  
PLOS ONE  
Nature Cell Biology  
Journal of the National Cancer Institute  
Cell Death and Differentiation  
International Immunology  
Immunology Today/Trends in Immunology  
Clinical Cancer Research  
Oncogene  
Immunology and Cell Biology  
European Journal of Immunology  
Natural Immunity, Cytokine, The Journal of Laboratory and Clinical Medicine, Immunogenetics, International Journal of Cancer, British Journal of Cancer, Journal of Molecular Biology, Xenotransplantation, Brain Research, Journal of Gene Therapy. American Journal of Pathology, Cancer Letters, Tissue Antigens, Expert Opinion on Biological Therapy, Trends in Pharmacological Sciences, Trends in Biochemical Sciences, Journal of Investigative Dermatology, Molecular Medicine, Immunobiology, Hepatology, Melanoma Research

**Examined a total of more than 10 PhD theses since 1993 for:**

University of Newcastle  
University of Western Australia  
University of Melbourne  
Monash University  
University of Sydney  
University of Queensland  
Opponent: PhD Thesis Gustaf Vahlne, Karolinska Institute, Stockholm, Sweden, 2007

**Consultancy:** I was a paid consultant to the Ludwig Institute for Cancer Research concerning the monitoring of cellular immune responses of melanoma patients enrolled in a series of vaccine trials at the Ludwig Oncology Unit at Austin and Repatriation Medical Centre (1997 to 1999). These trials involved synthetic melanoma peptide antigens administered either alone or co-administered with immune adjuvants such as GM-CSF or IL-12. The trials were conducted collaboratively in several centres internationally, including New York, Frankfurt and Lausanne. I

provided expertise in innate and acquired immunity and the design of effective surrogate assays for clinical immune responses.

I was a consultant/advisor to Novo Nordisk for the clinical development of IL-21 from 2004-2008. We have a basic pre-clinical program of IL-21 research in my group that funding two visiting scientists from Novo Nordisk.

I was a founder and consultant to Cytoscreen Pty Ltd. 2003-2009

I was a consultant for Genscreen Pty Ltd. from 2004-2009

I was a consultant to Cynata Pty Ltd. from 2005-2009.

Consult ad-hoc for Defined Health (USA).

Expert Advisory Board – Boehringer Ingelheim (2011).

Expert Advisory Board – Bristol-Myers Squibb (2011).

Expert Advisory Board – GSK (2011-2012).

Expert Advisory Board – AMGEN (2015).

Scientific Advisory Board of F-star (2013-2016).

Scientific Advisory Board of Kymab (2014-2016).

Scientific Advisory Board Arcus Biosciences (2016-2017).

Scientific Advisory Board Astra Zeneca (2016-2017).

Scientific Advisory Board Tizona (2017-).

Scientific Advisory Board Compass Therapeutics (2018-).

Consultant to AMGEN (2009-2012).

Consultant to Ablynx (2011-2012).

Consultant to Merck (2012).

Consultant to Five Prime Therapeutics (2013-2014).

Consultant to Janssen (2013).

Consultant to Compugen (2014).

Consultant to Heat Biologics (2014).

Consultant to Gerson Lehman Group (2013-).

Consultant to Aduro Biotech (2015-2018).

Consultant to Bristol Myers Squibb (2015-).

Consultant to Inception Sciences (2016-2017).

Consultant to Elstar Therapeutics (2017-).

### **Meetings organised:**

1998 Australasian Society of Immunology Meeting, Melbourne.

2000 Immunology of Victoria, Mt Buffalo

2001 Immunology of Victoria, Mt Buffalo

2002 Immunology of Victoria, Beechworth

2003 Immunology of Victoria, Beechworth

2003 5<sup>th</sup> Peter Mac Symposium, Melbourne

2004 3<sup>rd</sup> International CD1 and NKT cell workshop, Heron Island.

2005 Apoptosis and Immunology, Palm Cove (May/June)

2005 Australasian Society for Immunology/14<sup>th</sup> International HLA Immunogenetics Conjoint Meeting, Melbourne (Dec).

2005 Advisory Committee, 21<sup>st</sup> International NK cell workshop, Hawaii, November.

2006 6<sup>th</sup> International Cytokine Meeting, Vienna – International Advisory Board.

2008 Organizing Committee, 23<sup>rd</sup> International NK cell Workshop, Perth, November.

2010 AACR Annual Meeting Scientific Program Committee

2011 Keystone Symposia Program Chair

- 2011 Annual Meeting of ISBTc, Workshop on Combination Immunotherapies, Bethesda, MD, USA, Nov 3-6.
- 2011 Immunotherapy Program Visit, BMS, August 17.
- 2012 Scientific Advisory Committee of International Workshop on the Mathematical Modelling of Tumour:immune Dynamics, Sydney, Australia, Jan 7-10, 2012.
- 2015 Immunotherapy@Brisbane 2015, Nov 24-26, 2015, Brisbane Australia – Scientific Program Chair
- 2016 Scientific Program Committee for the International Congress of Immunology, Melbourne, 2016.
- 2017 Immunotherapy@Brisbane 2017, May 10-12, 2015, Brisbane Australia – Scientific Program Chair

**Involvement in wider community:**

**Public Education:**

- 1989-1990: While I was training at the Frederick Cancer Research and Development Center, NCI, USA, I was involved in a special initiative in Maryland to expose high school students to leading medical research. I supervised Mr. Jeffrey Gerard (20 hrs/week). He was one of the first ten high school students selected for the Student Intern Program within Maryland.
- 1994: Talk at Rotary Lions Club of Heidelberg, October.
- 1995: Talk at Rotary Lions Club of Rosebud, November.
- 1997: Talk at Rotary Lions Club of Nunawading, April
- 1998: Talk at Austin Research Institute Public Information Night, August. "CANCER - from every perspective."
- 1999: The Sir Macfarlane Burnet Live-In Workshop for VCE level, University of Melbourne, July.
- 2004: Research presentation at Peter Mac Cup Breakfast (Carlton v Collingwood), Park Hyatt, May.
- 2004: Peter Mac Staff Forum, June, 2004
- 2010: Cancer Council Victoria Sponsors Day, June 23, 2010
- 2014: Public Forum – QIMR Berghofer, Cancer Immunotherapy Awareness Month, June 17, 2014
- 2015: Public Forum –Immunotherapy@Brisbane, November 24, 2015

Occasional written, verbal and documentary presentations of my research to public via mass media [New York Times, Washington Post, The Age, Canberra Times, ABC radio, ABC TV (Quantum)], Channel 10, and smaller outlets (Local radio stations, Today’s Life Sciences).

Regular presentations of scientific articles to Peter MacCallum Cancer Centre and QIMR Berghofer Fundraising Departments.

November 18-24, 2007. Nature paper. Channel 9 and 10 national news story. Herald Sun weekly and Weekend releases. Worldwide media release via AAP.

January 28, 2010: NH&MRC Australia Fellowship announcements.

May 29, 2012: CCV Cancer News Interview and Article

<http://www.healthcanal.com/cancers/17196-Breast-cancer-new-treatment-avenue.html>

<http://scicasts.com/lifesciences/1875-cancer-research/3649-new-treatment-avenue-for-breast-cancer-identified>

<http://medicalxpress.com/print224836365.html>

<http://www.canadianbusiness.com/article/25935--breast-cancer-a-new-treatment-avenue-identified-at-the-crchum-and-the-peter-macallum-cancer-centre>

<http://www.newswire.ca/en/releases/archive/May2011/17/c4666.html>

<http://news.bioscholar.com/2011/05/new-avenue-for-treating-breast-cancer-identified.html>

<http://www.medicalnewstoday.com/releases/225658.php>

<http://oneclick.indiatimes.com/article/0gYx5QfgcD6K1>

<http://www.medicalnewstoday.com>

<http://www.medilexicon.com>

Medical News Today Article Publication (Article ID: 228470)

<http://www.healthcanal.com/medical-breakthroughs/18099-New-cell-type-offers-new-hope.html>

<http://www.biotechnologynews.net/StoryView.asp?StoryID=2393964>

<http://www.cosmosmagazine.com/news/4445/australian-scientists-discover-new-immune-cell>

<http://www.abc.net.au/rn/healthreport/>

<http://aww.ninemsn.com.au/olay/tips/8479450/stress-and-your-immune-system-listen-to-your-body>

Herald Sun August 12, 2012 (online and in press).

<http://www.skynews.com.au/health/article.aspx?id=815457>

<http://au.news.yahoo.com/queensland/a/-/local/17669778/enzyme-blocker-offers-breast-cancer-treatment-boost/>

<http://www.abc.net.au/news/2013-06-19/enzyme-blocker-offers-breast-cancer-treatment-boost/4766532?section=qld>

<http://www.abc.net.au/news/2013-08-18/riders-conquer-nations-biggest-charity-ride/4895022?section=qld>

March 24, 2014

<http://www.theaustralian.com.au/news/latest-news/aussies-reveal-how-cancer-tricks-the-body/story-fn3dxiwe-1226862806111>

<http://www.businessinsider.com.au/australian-researchers-have-found-that-cancer-cells-use-camouflage-to-trick-our-bodies-2014-3>

<http://www.heraldsun.com.au/news/breaking-news/aussies-reveal-how-cancer-tricks-the-body/story-fni0xqi4-1226862806111>

<http://health.msn.co.nz/healthnews/8818772/aussies-reveal-how-cancer-tricks-the-body>

<http://au.news.yahoo.com/a/22132455/aussies-reveal-how-cancer-tricks-the-body/>

<http://www.news.com.au/lifestyle/health/aussies-reveal-how-cancer-tricks-the-body/story-fneuzlbd-1226863179442>

<http://www.perthnow.com.au/news/breaking-news/aussies-reveal-how-cancer-tricks-the-body/story-fnhrvfuw-1226862806111>

<http://www.prostate.org.au/research/funded-research/meet-our-investigators/>

## **Invitations to Speak at International Scientific Meetings:**

- 1989: Second International Workshop on Cytokines, Hilton Head Island, SC, USA, Dec. 1989. "IL-2 induction of perforin mRNA expression in human lymphocyte subsets."
- 1991: First International Symposium on Combination Therapies, Washington D.C., USA, March 1991. "Immunosuppression in tumor bearing mice: functional and molecular basis."
- 1992: Natural Killer Cell Workshop- Molecular and Cellular Aspects of Natural Killer Cell Triggering and Signalling, St. Petersburg Beach, Florida, USA, Oct. 1992. "Purification and cloning of a novel serine protease with Met-ase activity from the granules of a rat natural killer cell line."
- 1993: European Molecular Biology Organisation Workshop on Cell-Mediated Cytotoxicity, Neve Ilan, Israel, August, 1993. "Purification and cloning of a novel granzyme activity from natural killer cells."
- 1994: Second Meeting of The Society for Natural Immunity, Taormina, Italy, May, 1994. "Granule serine proteases of natural killer cells localise to the nucleus of target cells."
- 1995: The First International Granzyme Conference, Reno, NE, USA, March, 1995. "A LGL granzyme: control of transcription, expression and activation."
- 1997: European Molecular Biology Organisation Workshop on Cell-Mediated Cytotoxicity, Kerkrade, The Netherlands, April, 1997. "The role of perforin in tumor xenograft rejection by adoptive transfer and FasL in allogeneic bystander lysis."
- 1998: Fifth Meeting of The Society for Natural Immunity, Warrenton, Virginia, October, 1998. "NK cell-mediated tumor rejection in vivo: a role for TNF in cell movement."
- 1999: Inaugural Workshop on NK T cells and CD1-mediated antigen presentation, San Diego, April, 1999. "The role of NK and NKT cells following tumor or xenoantigen challenge in vivo."
- 2000: International Symposium on Cancer Immunosurveillance, Cancer Research Institute, New York City, NY, USA, October, 1999 (SYMPOSIUM).
- 2000: The 18<sup>th</sup> International Natural Killer Cell Workshop, 6<sup>th</sup> Annual Meeting of the Society for Natural Immunity, Marseille, France, May 2000. "Innate immunity, effector mechanisms and cancer in mice."
- 2001: International Congress in Immunology, Stockholm, Sweden, July, 2001 (SYMPOSIUM).
- 2002: First Wellcome International Senior Fellows Meeting, London, UK, May, 2002.
- 2002: Cancer Research Institute 16<sup>th</sup> Annual Awards Dinner, New York, NY, May 2002.
- 2002: FASEB Meeting on Apoptosis and Immunity, Tuscon, AZ, USA, July 2002 (SYMPOSIUM).
- 2002: Cancer Research Institute CVC Symposium, New York, NY, USA October 2002 (SYMPOSIUM)
- 2002: The 19<sup>th</sup> International Natural Killer Cell Workshop, San Juan Puerto Rico, October, 2002 (SYMPOSIUM).
- 2002: The 9th International Congress on the TNF Related Cytokines, San Diego, CA, October, 2002.

- 2002: The Second International CD1 and NKT cell Workshop, Woods Hole, USA, November, 2002 (SYMPOSIUM).
- 2002: The Japanese Society for Immunology Annual Meeting, Tokyo, Japan, December, 2002 (SYMPOSIUM).
- 2003: International Symposium on Tumor Biology, Kanazawa, Japan, March, 2003 (PLENARY).
- 2003: IL-13 and Related Factors in Inflammation and Disease, Cape Town, South Africa, March, 2003 (INVITED/declined).
- 2003: The American Association of Immunologists, Denver, CO, USA, May, 2003 (SELECTED).
- 2003: The European Network of Immunology Institutes, Ile des Embiez, France, May, 2003 (SYMPOSIUM).
- 2003: The Annual Meeting of the Korean Cancer Association, Seoul, South Korea, June, 2003 (PLENARY). "Cancer immunosurveillance."
- 2003: Sapporo International Cancer Symposium, Sapporo, Japan, July, 2003 (SYMPOSIUM).
- 2003: The International Society for Interferon and Cytokine Research, Cairns, October, 2003 (PLENARY).
- 2004: Indo-Australian Conference on Biotechnology in Medicine, Indian Institute of Science, Bangalore, India, February 9-11, 2004 (PLENARY/declined).
- 2004: NIH Seminar Series, Bethesda, MD, USA, April, 2004
- 2004: University of Connecticut Health Center Seminar Series, New Haven, CT, USA, April, 2004 (INVITED LECTURE SERIES).
- 2004: The 20<sup>th</sup> International Natural Killer Cell Workshop, Noordwijkerhout, The Netherlands, April, 2004 (SYMPOSIUM).
- 2004: 4<sup>th</sup> HFSP Annual Awardees Meeting, Hakone, Japan, May, 2004 (INVITED SYMPOSIUM - declined).
- 2004: International Congress in Immunology, Montreal, Canada, July, 2004 (INVITED WORKSHOP CHAIR).
- 2004: 3<sup>rd</sup> International Workshop on NKT cells and CD1 mediated antigen presentation, Heron Is, Australia, September, 2004 (INVITED SYMPOSIUM).
- 2004: Genomics, Proteomics and Therapeutics in Cancer Research, Hong Kong, October, 2004 (INVITED PLENARY & SYMPOSIA). "Innate effectors and regulators of tumor immunity."
- 2005: Seventeenth Lorne Cancer Conference, Lorne, February, 2005 (INVITED). "Innate effectors and regulators of tumor immunity."
- 2005: Basic Aspects of Tumor Immunology, Keystone Symposia, Keystone, CO, March 2005 (INVITED SYMPOSIUM - declined).
- 2005: Apoptosis and Immunity, Palm Cove, Cairns, June 2005 (INVITED SYMPOSIUM)

- 2005: 7th International Symposium on Cytokines and Chemokines, Montreal September 8-9, 2005 (INVITED SYMPOSIUM – declined).
- 2005: The Annual Meeting of the Korean Cancer Association, Seoul, South Korea, June, 2005 (INVITED PLENARY). “Cancer immunosurveillance.”
- 2005: The Joint Meeting on IL-21, Copenhagen, Denmark, September, 2005 (INVITED SPEAKER)
- 2005: 1st Crossroads between Innate and Adaptive Immunity Conference, Rhodes, Greece, October 2005 (INVITED PLENARY). “Cancer immunosurveillance.”
- 2005: International Symposium on Cancer Vaccines. Barriers, Endpoints, and Opportunities, Cancer Research Institute, New York City, NY, USA, October, 2005 (INVITED PLENARY). “Cancer immunosurveillance.”
- 2006: Immunet, Wellington, NZ, June, 2005 (INVITED PLENARY – declined)
- 2006: Sapporo International Cancer Symposium, Sapporo, Japan, July, 2006 (INVITED PLENARY - declined).
- 2006: Pasteur Institute Spring Seminar Series, Paris (INVITED SPEAKER –declined ).
- 2006: 6<sup>th</sup> International Cytokine Meeting, Vienna, Austria, August, 2006 (INVITED CHAIR AND SYMPOSIUM SPEAKER).
- 2006: National Cancer Institute “Frontiers in Basic Immunology”, Bethesda, MD, September 2006 (INVITED PLENARY - declined).
- 2006: 4th International Workshop on NKT cells and CD1 mediated antigen presentation, Tuscany, Italy, October, 2006 (INVITED SYMPOSIUM - declined).
- 2006: Annual Meeting of the International Society of Biologic Therapy of Cancer, Los Angeles, CA, October, 2006 (INVITED CHAIR AND SPEAKER).
- 2006: International Workshop Immunotherapy: targeting complexity, Havana, Cuba, November, 2006 (INVITED SPEAKER - declined).
- 2006: Inaugural European Cell Death Organization (ECDO) Workshop, Villejuif, France, December, 2006 (INVITED PLENARY - declined).
- 2007: Keystone Symposia “Mechanisms Linking Inflammation and Cancer”, Santa Fe, NM, February, 2007 (INVITED SYMPOSIUM).
- 2007: Keystone Symposia “The Powerful New Anti-tumor Immunotherapies.”, Banff, Canada, March 2007 (INVITED SYMPOSIUM - declined).
- 2007: Charles Rodolphe Brupbacher Symposium, Zurich, Switzerland, March 2007 (PRIZE AND INVITED PLENARY).
- 2007: 10th NK cell Workshop, Cambridge, UK, April, 2007 (INVITED SYMPOSIUM-declined).
- 2007: 7th International Conference on Progress in Vaccination Against Cancer (PIVAC-7), Stockholm, Sweden, September 2007 (INVITED PLENARY - declined).

- 2007: NCI, Frontiers in Basic Immunology, Bethesda, MD, USA, October, 2007 (INVITED PLENARY).
- 2008: Keystone Symposium, NK and NKT cell biology, Keystone, CO, USA, February, 2008 (INVITED SYMPOSIUM).
- 2008: CIMT, Cancer Immunotherapy, Mainz, May 15-16, 2008, Germany (INVITED PLENARY-declined)
- 2008: EMBO Workshop, Cytotoxicity, Cell Death and the Immune System, Zaragosa, Sept 17-20, 2008, Spain (INVITED SYMPOSIUM -declined)
- 2008: Cancer Research Institute 16th Annual Meeting, Cancer Immunology and Immunotherapy 2008: From Discovery to Development to Drug, New York, New York, USA, Sept 15-17, 2008 (INVITED PLENARY)
- 2008: 13th World Congress on Advances in Oncology, Creta Maris, Hersonissos, Crete, Greece, Oct 9-11, 2008 (INVITED SPEAKER – declined).
- 2008: 11th Meeting of the Society for Natural Immunity, Fremantle, Australia, October, 2008 (INVITED SYMPOSIUM).
- 2008: 1st International Conference on Anti-cancer Chemo-immunotherapy, Paris, France Oct 17-18, 2008 (INVITED OPENING PLENARY).
- 2008: 8th International Conference of -21, 2008 (INVITED PLENARY)  
 PLENARY – declined). A, 2008 (INVITED PLENARY), K os, G reece 0 ct 17
- 2008: AACR Special Conference, Tumor Immunology:New Perspectives, Miami, USA Dec 2-5, 2008 (INVITED SYMPOSIUM - declined).
- 2008: International Workshop “Immunotherapy 2008: Implementing combinations”, Havana, Cuba, November 10-14, 2008 (INVITED SPEAKER - declined).
- 2009: Keystone Symposium, Mobilizing Cellular Immunity for Cancer Therapy, Snowbird, UT, USA, January, 2009 (INVITED SYMPOSIUM).”Combination chemo-immunotherapies: looking for synergy.”
- 2009: Twenty-first Lorne Cancer Conference, Lorne, Australia, February, 2009 (INVITED SYMPOSIUM).
- 2009: 5th International Symposium on the Clinical Use of Cellular Products, Nurnberg, Germany, March 19-20, 2009 (INVITED SYMPOSIUM – declined)
- 2009: 5th International Symposium on CD1/NKT cells, Kamakura, Japan, March, 2009 (INVITED SYMPOSIUM)
- 2009: The Second Australia-China Biomedical Research Conference, Tianjin, China, April 24-27, 2009 (INVITED SPEAKER – declined).
- 2009: 3rd Annual Immunodiagnosics and Immunomonitoring Conference, Chicago, IL, April 23-24, 2009 (INVITED SPEAKER – declined).
- 2010: Keystone Symposium, Role of Inflammation in Oncogenesis, Keystone, CO, USA, Feb 7-12, 2010 (INVITED SYMPOSIUM). “Suppression and innate immune surveillance.”

- 2010: The 2010 Miami Winter Symposium, “Targeting Cancer Invasion and Metastasis”, Miami, FL, Feb 21-24, 2010 (INVITED SYMPOSIUM). “Finding a balance: cancer and immunity.”
- 2010: The AACR Annual Meeting, Washington DC, USA, April 17-21, 2010 (INVITED SYMPOSIUM SPEAKER).”Pathways that suppress tumor immunity.”
- 2010: The 12th Meeting of The Society for Natural Immunity, Cavtat, Croatia, April 20-24, 2010 (INVITED SPEAKER). “Therapeutic and functional properties of DNAM-1/CD96 in immune responses to tumors.”
- 2010: International Congress in Immunology, Kobe, Japan, Aug 22-27, 2010 (INVITED SPEAKER). “Finding a balance between cancer and immunity.”
- 2010: International Symposium on Tumor Biology, Kanazawa, Japan Aug 27-29, 2010 “Cancer and host response” (INVITED SYMPOSIUM SPEAKER).
- 2010: Brazilian Society for Immunology, Porto Alegre, Brazil, Nov 3-6, 2010 (INVITED SYMPOSIUM SPEAKER - declined).
- 2011: Keystone Symposium “Antibodies as Drugs” Keystone, CO, USA, Feb 6-11, 2011(INVITED SYMPOSIUM).
- 2011: Keystone Symposium “Cancer Control by Tumor Suppressors and Immune Effectors” Santa Fe, NM, USA, Feb 12-17, 2011 (INVITED SYMPOSIUM).
- 2011: 3rd Australia-China Biomedical Research Conference, April 28-30 (INVITED SYMPOSIUM - declined)
- 2011: “Immunochemotherapy: Correcting Immune Escape in Cancer” Mar 10-11th, 2011 (INVITED PLENARY).
- 2011: 6th International Symposium on Cellular Therapy, Erlangen, Germany, Mar 24-25 (INVITED SYMPOSIUM - declined).
- 2011: 6th International Symposium on CD1d/NKT, Chicago, USA, Sept 23-27, 2011 (INVITED SYMPOSIUM).
- 2011: Boehringer Ingelheim Expert Meeting on Immunotherapy, New York City, New York, Oct 6-7, 2011 (INVITED SPEAKER).
- 2011: Bristol Myers Squibb Immunooncology Advisory Board Meeting, Bethesda, MD, Nov 2, 2011 (INVITED)
- 2012: The 13th Meeting of The Society for Natural Immunity, Asilomar, CA, USA, April 20-24, 2012 (INVITED SPEAKER).
- 2012: IMPAKT 2012 Breast Cancer Conference, “Development of immunotherapeutic approaches in TNBC”, Brussels, Belgium, May 2, 2012 (INVITED SPEAKER).
- 2012: IMPAKT 2012 Breast Cancer Conference, Interrogating the immune system”, Brussels, Belgium, May 4, 2012 (INVITED SPEAKER).
- 2012: European Academy of Tumor Immunology Conference, “NK cells in malignancy”, Paris, France, May 7, 2012 (INVITED SPEAKER).
- 2012: Antibody Design and Discovery Conference, San Diego, USA, Jun 7-8, 2012 (INVITED SPEAKER, declined).

- 2012: 5th International Symposium of Immunology, Singapore, Jun 7-8, 2012 (INVITED SPEAKER).
- 2012: European Human Genetics Conference (ESHG), Nurnberg, Germany, June 24-26, 2012 (INVITED SPEAKER - declined). "Cancer Genetics".
- 2012: European Congress of Immunology, LFB Satellite Symposium, "The immunomodulatory activities of therapeutic antibodies, from preclinical studies to clinical trials", Sept 6-8, 2012 (INVITED SPEAKER).
- 2012: NK cell Symposium, Heidelberg, Germany, Sept 26-28, 2012 (INVITED SYMPOSIUM).
- 2012: World Congress on Advances in Oncology, Creta Maris, Hersonnis, Crete, Greece, Oct 11-13, 2012 (INVITED TALK – declined).
- 2012: Annual SITC Meeting, Bethesda, Oct 26-28, 2012 (INVITED SYMPOSIUM CHAIR & PLENARY SPEAKER – declined).
- 2012: AACR Special Conference. Tumor Immunology: Multidisciplinary Science Driving Basic and Clinical Advances. Miami, USA, Dec 2-6, 2012 (INVITED SPEAKER – declined).
- 2012: International Workshop on the Mathematical Modelling of Tumour:Immune Dynamics, Sydney, Australia, Jan 7-10, 2012 (INVITED PLENARY - declined).
- 2013: Keystone Symposium "Cancer Immunology and Immunotherapy", Vancouver, Canada, Jan 27-Feb 1, 2013 (INVITED SYMPOSIUM - declined).
- 2013: IMPAKT 2013 Breast Cancer Conference, Interrogating the immune system", Brussels, Belgium, May 1-4, 2013 (INVITED CHAIR & SPEAKER - declined).
- 2013: Cancer Immunotherapy Consortium, Washington DC, April 25-27, 2013 (INVITED SYMPOSIUM).
- 2013: The Roche Nature Medicine Immunology Symposium, Buonas, Switzerland, April 28-30, 2013 (INVITED SYMPOSIUM - declined).
- 2013: International Congress of Immunology, Aug 22-27, 2013 (INVITED SYMPOSIUM - declined).
- 2013: Annual Joint Meeting of the International Cytokine Society (ICS) and International Society for Interferon and Cytokine Research (ISICR), San Francisco, CA, USA, Sept 29-Oct 3, 2013 (INVITED SYMPOSIUM - declined).
- 2013: The 17th ECCO - 38th ESMO - 32nd ESTRO ~~European Cancer Congress~~ : European Cancer Congress, Amsterdam, The Netherlands, Sept 27-Oct 1, 2013 (INVITED CHAIR AND SYMPOSIUM SPEAKER – declined).
- 2013: XIII Michelangelo Seminar, Breast Cancer, the immune system, and new therapeutic opportunities, Milan, Italy, Oct 25, 2013 (INVITED PLENARY - declined).
- 2013: Cold Spring Harbor Asia Conference on Cancer Immunology and Immunotherapy, Suzhou, China, Oct 28-Nov 1, 2013 (INVITED SYMPOSIUM).
- 2013: IBC Antibody Engineering Meeting, "The Interface between monoclonal antibody and cellular immunity in cancer", Huntington Beach, CA, Dec 8-12, 2013 (INVITED SYMPOSIUM-declined).

- 2014: 5th Australasian Vaccines and Immunotherapeutic Development Meeting, Melbourne, Australia, May 7-9, 2014 (INVITED SPEAKER).
- 2014: CIMT 12th Annual Meeting 2014, Mainz, Germany, May 6-8, 2014 (INVITED PLENARY)
- 2014: Kymab Scientific Experts Meeting, Cambridge, Sept 8-9, 2014 (INVITED SYMPOSIUM).
- 2014: Annual General Meeting of the International Cytokine and Interferon Society, Melbourne, Oct 26-29, 2014 (INVITED SYMPOSIUM).
- 2014: Boehringer Ingelheim Experts Meeting, Vienna, Nov 23-24, 2014 (INVITED SYMPOSIUM).
- 2015: 4th Network of Immunology Frontier Winter School, Singapore, Jan 18-23, 2015 (INVITED SYMPOSIUM).
- 2015: 27th Lorne Cancer Conference, Lorne, Australia, Feb 12-15, 2015 (INVITED PLENARY).  
Ashley Dunn Oration
- 2015: 4th International Conference on Immunochemotherapy, Philadelphia, Apr 16-17, 2015 (INVITED PLENARY).
- 2015: Annual AACR Meeting, Philadelphia, Apr 18-22, 2015 (INVITED SYMPOSIUM).
- 2015: NK 2015, 15th Meeting of the Society for Natural Immunity, Montebello, Quebec, Canada, May 2-6, 2015 (INVITED SYMPOSIUM).
- 2015: International Conference of Cancer Immunotherapy and Macrophages, Tokyo, Japan, July 9-11, 2015 (INVITED SYMPOSIUM).
- 2015: International Forum on Cancer and Immunology, Lugano, Sept 25-26, 2015 (INVITED PLENARY).
- 2015: The Inaugural International Cancer Immunotherapy Conference, New York, Sept 16-19, 2015 (INVITED SYMPOSIUM-declined).
- 2015: Weizmann Australia, 2nd Making Connections Symposium “Future Directions in Cancer Biology and Targeted Therapeutics”, 19-20 October 2015, Melbourne (INVITED SYMPOSIUM DECLINED).
- 2015: 2015 NHRI/IBMS Joint International Conference on Inflammation and Disease, Taiwan, Oct 21-23, (INVITED SYMPOSIUM – declined).
- 2015: 9th International Conference on Cell Therapy, Seoul, Korea, Oct 23-25, (INVITED PLENARY – declined).
- 2015: Annual Korean Immunology Meeting, Seoul, Korea, Nov 12-13, 2015 (INVITED SYMPOSIUM – declined).
- 2015: Immunocan 2nd Euro-Asian Experts Conference on Immune Biomarkers for Personalized Medicine in Oncology, Shanghai, China, Nov 12-13, 2015 (INVITED SYMPOSIUM AND CHAIR – declined).
- 2015: XGEVA® Immuno-Oncology Global Scientific Advisory Board, Geneva, Switzerland, Nov 19, 2015 (Invited – declined).
- 2015: ESMO Asia Congress, Singapore, Dec 18-21, 2015 (INVITED SYMPOSIUM - declined).

- 2016: Keystone Conference, Purinergic Signaling, Vancouver, British Columbia, Canada, Jan 24-29, 2016 (INVITED SYMPOSIUM).
- 2016: Keystone Conference, Antibodies as Drugs, Whistler, British Columbia, Canada, Mar 6-11, 2016 (INVITED SYMPOSIUM).
- 2016: BMS Immunooncology Symposium, Redwood City, CA, USA, April 14, 2016 (INVITED KEYNOTE).
- 2016: Annual AACR Meeting, New Orleans, USA, Apr 16-20, 2016 (INVITED SYMPOSIUM).
- 2016: Maui Immunotherapy Meeting “T cell immunotherapy: a deeper dive”, Maui, Hawaii, USA, June 10-12, 2016 (INVITED SYMPOSIUM).
- 2016: CRI-CIMT-EATI-AACR Translating Science into Survival, New York, USA, Sep 25-28 (INVITED SYMPOSIUM).
- 2016: NK 2016, 16th Meeting of the Society for Natural Immunity, Taormina, Sicily, Italy, October 2-5, 2016 (INVITED SYMPOSIUM).
- 2016: The 8th Princess Chulabhorn International Science Congress, “Environmental Health: Inter-linkages among the Environment, Chemicals, and Infectious Agents”, Bangkok, Thailand, Nov 13-17, 2016 (INVITED CHAIR & PLENARY).
- 2016: XV Michelangelo Seminar “Immunotherapy comes to age: opportunities, challenges and implication for breast cancer”, Milan, Italy, Nov 4 2016 (INVITED SYMPOSIUM - declined).
- 2017: 9th International Cellular Therapy Meeting, Erlangen, Germany, March 16-17, 2017 (INVITED SYMPOSIUM - declined).
- 2017: Keystone Conference, Immune regulation in autoimmunity and cancer, Whistler, British Columbia, Canada, Mar 26-31, 2017 (INVITED SYMPOSIUM).
- 2017: Principles of Immunooncology, Paris, France July 6-7, 2017 (INVITED SYMPOSIUM).
- 2017: The 2017 International Cancer Immunotherapy Conference (AACR-CRI-EATI-CIMT), Mainz, Germany Sep 6-9, 2017 (INVITED SYMPOSIUM - declined).
- 2017: 5th Annual Meeting of the International Cytokine and Interferon Society 2017, Kanazawa Japan Oct 29-Nov 2, 2017 (INVITED SYMPOSIUM).
- 2017: First International Cancer Immunotherapy Conference, Institut National du Cancer and ITMO Cancer-Aviesan, Paris, France, Nov 27-28, 2017 (INVITED KEYNOTE).
- 2017: 3rd Annual Summit ICI Europe, November 15-16th, Munich, Germany (INVITED speaker-declined).
- 2017: Medimmune Oncology Scientific Exchange Meeting, November 20, 2017, Gaithersburg, MD, USA (INVITED speaker- declined).
- 2017: 34th Annual Horizons Meeting, Sydney, Nov 20-21st, 2017 (INVITED PLENARY – declined).
- 2017: 46th Annual Meeting of the Australasian Society for Immunology, Brisbane, Nov 27-Dec 1, 2017 (INVITED PLENARY).

- 2018: American Association for Cancer Research Annual Meeting, Meet the Expert Session, April 14-18, 2018 (INVITED SYMPOSIUM).
- 2018: 17th Meeting of the Society of Natural Immunity, NK2018 San Antonio, Texas, USA, May 28-June 1, 2018 (INVITED SYMPOSIUM).
- 2018: Merck Scientific Input Engagement (SIE), San Francisco, CA, June 12-14, 2018 (INVITED).
- 2018: Nektar Therapeutics and Cellular Therapies Advisory Board Meeting, Napa Valley, CA, June 27-28<sup>th</sup> (INVITED).
- 2018: CSH Asia, Frontiers of Immunology in Health and Disease, Suzhou, China, Sept 10-14<sup>th</sup>, 2018 (INVITED SYMPOSIUM).
- 2018: Nature-Tsinghua Conference, Inflammation and Cancer, Beijing, China, Oct 23-Oct 26, 2018 (INVITED SYMPOSIUM).
- 2018: NHRI/IBMS Joint International Conference on Inflammation and Disease, NHRI, Taiwan, Oct 31-Nov 2, 2018 (INVITED SYMPOSIUM – declined).
- 2019: Keystone Symposia, Uncovering mechanisms from immune-based therapy in cancer and autoimmunity, Breckenridge, CO, USA, Feb 18-23, 2019 (INVITED SYMPOSIUM).
- 2019: 16<sup>th</sup> Annual International Innate Immunity Conference, Jun 7-12<sup>th</sup>, 2019, Rhodes, Greece (INVITED SYMPOSIUM)
- 2019: British Association for Cancer Research on "Tumour Microenvironment, basic science to novel therapies", July 1-3rd, 2019, Nottingham, UK (INVITED SYMPOSIUM - declined).

### **Invitations to talk at National Meetings or as a Visiting Seminar Speaker Internationally and Nationally:**

- 1987: Imperial Cancer Research Fund Laboratories, London, England, June 1987. "Immunochemotherapy of solid tumours."
- University of Nottingham, Nottingham, England, June 1987. "Immunochemotherapy of cancer using drug-mono-clonal antibody conjugates."
- Stanford University Medical School, Palo Alto, CA, USA, September 1987. "The specific targeting of antineoplastic drugs to tumours using monoclonal antibodies."
- University of Texas, Health Service Center, Dallas, TX, USA, September 1987. "Immunochemotherapy of cancer using drug-mono-clonal antibody conjugates."
- University of Minnesota, Minneapolis, MN, USA, September 1987. "The specific targeting of antineoplastic drugs to tumours using monoclonal antibodies."
- Bristol Myers Inc., Wallingford, CT, USA, October 1987. "The use of drug-mono-clonal antibody conjugates in cancer treatment."
- 1991: Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, February 1991. "Role and gene regulation of perforin in cytotoxic cells."

- Institute of Medical and Veterinary Science, Adelaide, Australia, February 1991. "Gene regulation of perforin in cytotoxic cells."
- 1992: NCI-Frederick Cancer Research and Development Center, Frederick, MD, USA, August, 1992. "Cloning of the rat natural killer cell serine protease, RNK-Met-1."
- Tenth Scientific Meeting of The Transplantation Society of Australia and New Zealand, Canberra, Australia, Apr. 1992. "T lymphocyte subsets with distinct lytic mechanisms."
- 1993: Monash University Department of Pathology and Immunology, April, 1993. "NK cell-specific genes-characterisation and uses."
- Howard Florey Institute of Experimental Physiology and Medicine, July, 1993. "The granule exocytosis mechanism of lymphocyte-mediated lysis."
- Ludwig Institute for Cancer Research, October, 1993. "Cytotoxic lymphocyte granule proteins and their transcriptional control."
- 1994: University of Rome "Regina Elena" Cancer Institute, Rome, Italy, May, 1994. "Granzymes-functions and uses."
- The Third Annual Conference of the Immunology Group of Victoria, WEHI, Melbourne, Oct. 1994. "NK-specific gene targeting."
- Twenty-fourth Annual Scientific Meeting of the Australasian Society for Immunology, Canberra, Dec. 1994. SYMPOSIA: "Cytotoxic lymphocyte granule proteins trigger target cell death."
- 1995: The Wellcome Symposium, Sydney, April, 1995. "Lymphocyte-mediated cell death - targeted immunotherapy."
- The Australian Academy Of Science AGM, Canberra, April, 1995. "Dual mechanisms of lymphocyte-mediated cytotoxicity serve to control and deliver the immune response."
- University of Melbourne, Dept. of Microbiology, Melbourne, August, 1995. "The immunotherapeutic potential of killer lymphocytes: maintenance of self."
- University of Sydney, Dept. Medical Oncology and Palliative Care, Westmead Hospital, Westmead, 1995. "Immunotherapy : manipulating killer cell function."
- Twenty-fifth Annual Scientific Meeting of the Australasian Society for Immunology, Gold Coast, QLD, Dec. 1995. SYMPOSIA: "Dual mechanisms of lymphocyte-mediated cytotoxicity serve to control and deliver the immune response."
- 1996: NCI-Frederick Cancer Research and Development Center, Frederick, MD, USA, September 1996. "Perforin and granzymes : a healthy collaboration."
- Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA, September 1996. "Perforin and granzymes : a healthy collaboration."
- The Immunobiology of Xenotransplantation, Walter and Eliza Hall Institute, October, 1996. "Cytotoxic mechanisms in xenograft rejection."
- St. Vincent's Hospital, Dept. Clinical Immunology, November, 1996. "Perforin and granzymes: a healthy collaboration."

- Austin & Repatriation Medical Centre (Repat), Dept. Medicine , December, 1996. "Perforin and FasL: mechanisms of cytotoxicity and sensitivity to P-glycoprotein."
- 1997: Ninth Lorne Cancer Conference (in association with AACR), Lorne, Feb, 1997. "The role of perforin in tumor xenograft rejection following adoptive transfer and FasL in allo-CTL bystander lysis."
- Annual Immunology of Victoria Conference, Mt. Buffalo, March, 1997. "The role of FasL in allo-CTL bystander lysis."
- Peter MacCallum Cancer Institute, May, 1997. " Killer cell-mediated control in vivo."
- Twenty-seventh Annual Scientific Meeting of the Australasian Society for Immunology, Perth, WA, Dec 1997. SYMPOSIA: "NK cells, perforin and tumor surveillance."
- 1998: Sixteenth Scientific Meeting of The Transplantation Society of Australia and New Zealand, Canberra, Australia, Apr. 1998. PLENARY: "NK cells:direct cytotoxicity and promoting CTL differentiation."
- Macfarlane Burnet Centre for Medical Research, May, 1998. "Killer cells and viruses: a battle of evolution."
- Monash University, Dept. Pathology & Immunology, June 1998. "Immune surveillance and tumour escape mechanisms."
- Austin Research Institute Public Information Night, August, 1998. "CANCER - from every perspective."
- Institute for Genetics, University of Cologne, October, 1998. "NK cell-specific proteins and effector mechanisms."
- Institute for Genetics, University of Cologne, November, 1998. "NK cell-mediated tumor surveillance: models for discovery and defining the players."
- Twenty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Victoria, Dec 1998. SYMPOSIA: "NK cells: emigration and anti-tumor effector function."
- 1999: Fifth Annual Curtin Conference, "Apoptosis", Canberra, January, 1999. "The drug efflux protein, P-glycoprotein, protects tumor cells from multiple forms of caspase-dependent apoptosis."
- Eleventh Lorne Cancer Conference, Lorne, Feb, 1999. "NK cells and tumor metastasis."
- Ludwig Tumor Immunology Workshop, Melbourne, March, 1999. "Immunosurveillance of spontaneous and experimental tumours."
- DNAX Research Institute of Molecular and Cellular Biology, Palo Alto, March, 1999. "Perforin and TNF superfamily molecules in NK cell tumor surveillance."
- University of Texas Southwestern, Dallas, April, 1999. "Perforin and TNF superfamily molecules in NK cell tumor surveillance."
- Peter MacCallum Cancer Institute, May, 1999. "Tumor immunosurveillance by cytotoxic lymphocytes."
- The Sir Macfarlane Burnet Live-In Workshop for VCE level, University of Melbourne, July, 1999. "Tumor Immunity."

- Centenary Institute of Medicine and Cancer Biology, August, 1999. "Tumor immunosurveillance: dissecting the major players."
- NCI-Frederick Cancer Research and Development Center, Frederick, MD, USA, October 1999. "Perforin and tumor surveillance."
- Joint Children's Cancer Institute Australia and Sydney Children's Hospital Research Seminar Program, October, 1999. "Pathways of cell death: regulation by P-glycoprotein."
- Third Peter Mac Symposium Initiation and Progression of Cancer, November, 1999. "Perforin and tumor surveillance."
- Twenty-ninth Annual Scientific Meeting of the Australasian Society for Immunology, Dunedin, NZ, Dec 1999. SYMPOSIA. "Perforin-mediated immune surveillance of cancer."
- 2000: Institute for Genetics, University of Cologne, May, 2000. "NK cell-mediated tumor immune surveillance."
- Eighth Annual Immunology of Victoria Conference, Mt Buffalo, Victoria, Oct 2000. "Cellular networks that control natural and activated anti-tumor immunity."
- 2000 Hanson Symposium, Cancer: Biology and Therapeutics, Adelaide, Nov 2000. "Cellular networks that control natural and activated anti-tumor immunity."
- Thirtieth Annual Scientific Meeting of the Australasian Society for Immunology, Sydney, NSW, Dec 2000. SYMPOSIA: "Cellular networks that control natural and activated anti-tumor immunity."
- 2001: 7<sup>th</sup> Annual Australasian Autoimmunity Workshop, Sydney, June 2001. "The anti-tumor activity of alpha-galactosylceramide activated NKT cells."
- IgV Techniques Workshop, Melbourne, July 2001. "Tumour models."
- Brisbane Immunology Group Seminar Series, Brisbane, July 2001. "The anti-tumor activity of NKT cells."
- Monash University, Department of Pathology and Immunology Seminar Series, August 2001. "Effector molecules that control tumour immunosurveillance."
- ASI Visiting Speaker to WA, Perth, August 2001. "NKT cells - mediators of tumour and/or CTL suppression?"
- The Twelfth Annual Combined Biological Sciences Meeting, Perth, August 2001. PLENARY SPEAKER. "Burnet's tumor immunosurveillance hypothesis revisited."
- 2002: Fourteenth Lorne Cancer Conference, Lorne, February, 2002. INVITED. "Burnet's tumor immunosurveillance hypothesis revisited."
- Peter MacCallum Cancer Institute & CSIRO Molecular Science Cancer Research Workshop, Melbourne, April 2002. "Cancer Immunology at Peter Mac."
- University of Turin, Department of Clinical and Biological Sciences, Turin, Italy, May 2002. "Nature's path – on the TRAIL to tumor immunotherapy."
- Washington University School of Medicine, St Louis, MO, USA, May 2002. "Tumor immunosurveillance."

Memorial Sloan Kettering Cancer Institute, New York, NY, USA, May 2002. "Natures path – on the TRAIL to tumor immunotherapy."

Murdoch Children's Research Institute, Royal Children's Hospital, Grand Rounds, Melbourne, July, 2002. "Versatile T cells - new genetic approaches to immunotherapy of cancer."

CSL, Melbourne, August, 2002. "Tumor immune surveillance – effectors and regulators."

Flinders University, Adelaide, August 2002. "Natures TRAIL - on a path to cancer immunotherapy".

ASI Visiting Speaker University of Adelaide, Adelaide, August 2002. "NKT cells - conductors of anti-tumor immunity".

Department of Microbiology and Immunology, University of Melbourne, August 2002. "Tumor immunosurveillance – myth to mystery."

St. Vincent's Institute for Medical Research, Melbourne, August 2002. "Tumor immunosurveillance – myth to mystery."

Peter MacCallum Cancer Institute Grand Rounds, Melbourne, September 2002. "Tumor immunosurveillance – myth to mystery."

Monash University, Department of Biochemistry Seminar Series, Melbourne, November 2002. "Cancer immune surveillance – effectors and regulators."

Thirty-second Annual Scientific Meeting of the Australasian Society for Immunology, Brisbane, QLD, Dec 2002. SYMPOSIA. "Cancer immune surveillance – effectors and regulators."

2003: Ludwig Institute for Cancer Research Seminar Series, Melbourne, April, 2003. "Effectors and regulators of tumour immunity."

NCI, Frederick Cancer Research and Development Center, May, 2003. "TRAIL as an effector and regulator of tumor immunity."

Seoul National University, Cancer Research Institute, June, 2003. "Effectors and regulators of tumour immune surveillance."

Ludwig Institute for Cancer Research Seminar Group, Heidelberg, June, 2003. "Effectors and regulators of tumour immune surveillance."

Baker Medical Research Institute, Melbourne, September, 2003. "Effectors and regulators of tumour immune surveillance."

John Curtin School of Medical Research, School Seminar, Canberra, September, 2003. "Effectors and regulators of tumour immune surveillance."

WEHI Seminar Series, "A fresh look at tumour immunity.", Melbourne, October, 2003.

Eleventh Annual IgV Meeting, "Anti-TRAIL DR5 targeting promotes tumor immunity." Beechworth, October, 2003.

Fifth Peter MacCallum Cancer Institute Symposium - November (INVITED). "Anti-TRAIL DR5 targeting promotes tumor immunity."

QIMR Seminar Series, Brisbane, November 19<sup>th</sup>, 2003. "Effectors and regulators of tumour immune surveillance."

- Thirty-third Annual Scientific Meeting of the Australasian Society for Immunology, Perth, WA, Dec 2003. PLENARY. "Effectors and regulators of tumour immune surveillance."
- 2004: Centenary Institute of Medicine and Cancer Biology, May, 2004. "Innate effectors and regulators of tumor immunity."
- WEHI Postgraduate Lecture Series, May, 2004. "Tumour immunology".
- Department of Pathology and Immunology, Monash University, Melbourne, June, 2004. "Innate effectors and regulators of tumor immunity."
- Washington University School of Medicine, St Louis, July 2004.
- 2005: University of California San Francisco, San Francisco, April, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy".
- AMGEN, San Francisco, April, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy".
- Queensland Institute of Medical Research, Brisbane, April, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy".
- Austin Research Institute, Melbourne, June, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy".
- IgV Techniques Workshop, Melbourne, July 2005. "Mouse models of cancer."
- Brisbane Immunology Group Meeting (PLENARY), August, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy."
- Ludwig Heidelberg Group Meeting, October, 2005.
- James Cook University, Townsville, November 28-30th, 2005. "Networks and effectors that mediate tumor immune surveillance and immunotherapy."
- Thirty-fifth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Vic, Dec 2005. "Cancer immunosurveillance."
- 2006: Twenty-fourth Scientific Meeting of The Transplantation Society of Australia and New Zealand, Canberra, April, 2006 (INVITED PLENARY). "Role of lymphocyte effectors in graft rejection."
- Garvan Medical Research Institute, July, 2006. "Cancer immunosurveillance."
- IFN Biology Group, Peter MacCallum Cancer Centre, July, 2006.
- Australian Health & Medical Research Congress (AH&MRC), Melbourne, November, 2006 (INVITED SYMPOSIUM SPEAKER). "Cancer immunosurveillance."
- Thirty-six Annual Scientific Meeting of the Australasian Society for Immunology, Auckland, NZ, Dec 2006 (INVITED SYMPOSIUM x 3). "Cancer immunosurveillance."
- 2007: University of Chieti, Italy, March, 2007 (INVITED SPEAKER). "Cancer immunosurveillance."
- Topics in Cancer Biology Course: Cancer Immunology, Peter MacCallum Cancer Centre, May, 2007.

Clinical Grand Rounds, Peter MacCallum Cancer Centre, May, 2007. "Cancer immunosurveillance: myth to mystery."

Centenary Institute of Medicine and Cancer Biology, August, 2007. "Cancer immunosurveillance."

NCI, Frederick Cancer Research and Development Center, October, 2007. "Combination chemo-immunotherapy of established cancer."

Gordon Ada Oration, Thirty-seventh Annual Scientific Meeting of the Australasian Society for Immunology, Sydney, December, 2007.

2008: Monman Workshop I, Monash University, February 2008 (INVITED SPEAKER-declined)

National University of Singapore, Singapore, April 2008 (INVITED SPEAKER)

WEHI Immunology Seminar Series, Melbourne, May 2008 (SEMINAR)

Hanson Institute Seminar Series, Adelaide May 2008 (SEMINAR)

Immunology Victoria Master Class in Immunology, Melbourne July 2008 (SEMINAR)

Mouse Models of Cancer, Peter Mac, Melbourne, August 2008 (SEMINAR)

Latrobe University, Melbourne August 2008 (SEMINAR)

HMRI Cancer Conference, Newcastle, Sept 2008 (INVITED SPEAKER, declined)

University of Adelaide Seminar Series, Adelaide November 2008 (SEMINAR)

QIMR Seminar Series, Brisbane, Nov 2008 (SEMINAR)

Thirty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Canberra, December, 2008 (INVITED PLENARY)

2009: Deeley Research Centre, University of Victoria, BC, Canada, January, 2009 (INVITED SEMINAR).

Monman Workshop II, Monash University, February 2009 (INVITED SPEAKER)

Malaghan Seminar Series, Wellington, NZ, March, 2009 (INVITED SEMINAR).

University of Tokyo, Tokyo, March, 2009 (INVITED SEMINAR).

University of Kyoto, Kyoto, March, 2009 (INVITED SEMINAR).

University of Melbourne, Department of Microbiology & Immunology, May, 2009 (INVITED SEMINAR).

Peter MacCallum Cancer Centre, Topics in Cancer – Cancer Immune Surveillance, August, 2009 (INVITED SEMINAR).

ASSG – Developing combination immunotherapeutics in sarcoma, Sydney, August 24th, 2009 (INVITED SEMINAR)

Thirty-ninth Annual Scientific Meeting of the Australasian Society for Immunology, Tumor Immunology Workshop, Gold Coast, December, 2009 (INVITED SPEAKER)

Thirty-ninth Annual Scientific Meeting of the Australasian Society for Immunology, Gold Coast, December, 2009 (INVITED PLENARY)

2010: Centre de Recherche des Cordeliers, Paris, France, April 26, 2010 (INVITED SPEAKER).

Institut Gustave Roussy, Paris, France, April 27, 2010 (INVITED SPEAKER).

3rd Novartis Research and Development Symposium, Melbourne, May 2010 (INVITED SPEAKER - declined).

ASSG – Immunotherapeutics in sarcoma, Melbourne, August 24th, 2010 (INVITED SEMINAR)

Cancer Council Victoria, Sponsors Day, “Combination immunotherapeutics for cancer treatment, June 23rd, 2010 (INVITED SPEAKER).

IHBI, Queensland University of Technology, “Cancer and immunity: a balancing act.”, July 15th, 2010 (INVITED SPEAKER).

Mater Medical Research Institute, Brisbane “Cancer and immunity: a balancing act.” July 16th, 2010 (INVITED SPEAKER).

Lowy Cancer Research Centre, Sydney, Sept 8th, 2010 (INVITED SEMINAR).

Burnet Seminar Series, Melbourne, Oct 13th, 2010 (INVITED SEMINAR).

Peter Mac Therapeutics Retreat, Oct 25-26th, 2010 (INVITED SPEAKER).

Fortieth Annual Scientific Meeting of the Australasian Society for Immunology, Perth, December, 2010 (INVITED SPEAKER - WORKSHOP)

2011: Immunology Summer Camp, University of Melbourne, Jan 24-February 5, 2011 (INVITED SPEAKER-declined).

Diamantina Seminar Series, May, June 27th, 2011, Brisbane (INVITED SPEAKER).

WEHI Postgraduate Lecture Series, July 4th, Melbourne (INVITED SPEAKER).

Australasian Prostate Cancer Conference, “Immunotherapy of prostate cancer” Aug 3-4th, Melbourne (INVITED PLENARY).

Bristol Myers Squibb-Peter Mac Immuno-oncology Joint Initiative, Peter MacCallum Cancer Centre, Aug 17th (SPEAKER).

Changing the landscape of melanoma treatment. The power of the immune system. “The role of T cells in driving the anti-tumor immune response”, Aug 19-20th (INVITED PLENARY).

Brisbane Immunology Group Seminar Series, QIMR, Sept 5-6th (INVITED SPEAKER).

Australasian Sarcoma Group ASM, Oct 15-16th, 2011, Melbourne (INVITED SYMPOSIUM)

LICR Translational Oncology Conference, Oct 24-26th, 2011, Melbourne (INVITED SPEAKER)

2012: Bristol Myers Squibb, March 21st, 2011, Princeton, USA (INVITED SPEAKER).

Victorian Comprehensive Cancer Centre 1<sup>st</sup> Breast Cancer Research Collaborative. “Use of mouse

mammary cancer models to dissect immune reaction and therapy mechanism of action.” July 17, 2012, Melbourne (INVITED SPEAKER).

Jonathan Sprent Oration, BIG Conference, Aug 16-17th, 2012, Kingscliff (INVITED PLENARY)

Scott Kirkbride Melanoma Research Centre Inaugural Melanoma Conference, Oct 24-25th, 2012, Perth (INVITED SPEAKER-declined).

First Australian p53 Workshop, Peter MacCallum Cancer Centre, Nov 19-21st, 2012, Melbourne (INVITED SPEAKER).

Inflammation 2012 Meeting, AMREP, Monash University, Nov 30-Dec 2, 2012, Melbourne (INVITED SPEAKER – declined).

2013: Infection and Immunology Seminar Series, QIMR, Brisbane, May 22, 2013 (INVITED SPEAKER).

ASMR Queensland Postgraduate Student Conference, Brisbane, May 29, 2013 (INVITED SPEAKER).

Brisbane Breast Cancer Workshop, Brisbane, June 20, 2013 (INVITED SPEAKER).

University of Adelaide School of Molecular and Biomedical Sciences Postgraduate Symposium, Adelaide, July 25, 2013 (INVITED SPEAKER - declined).

Griffith University Seminar Series, Gold Coast, August 25, 2013 (INVITED SPEAKER).

Translational Research Institute Seminar Series, Brisbane, Sept 3, 2013 (INVITED SPEAKER).

HIRF-Siemens Research Collaborative Meeting, Brisbane, Nov 21-22, 2013 (INVITED SPEAKER).

2014: Dana Farber Cancer Institute Seminar Series, Boston, MA, USA April 16th, 2014 (INVITED SPEAKER)

Medimmune, Gaithersburg, MD, USA, April 22nd, 2014 (INVITED SPEAKER)

Centenary Institute, Sydney, May 20th, 2014 (INVITED SPEAKER).

QUT School of Biomedical Sciences Seminar Series, Garden Point, Brisbane June 6th, 2014 (INVITED SPEAKER).

Brisbane Immunology Group (BIG) Conference, Gold Coast, Aug 20-21st, 2014 (PLENARY SPEAKER – HOT TOPICS).

MIA Melanoma Immunotherapy Program, Sydney, Aug 26th, 2014 (INVITED SPEAKER).

Sciences of Oncology, Medical Oncology Group of Australia, Melbourne, Nov 8-9, 2014 (INVITED SPEAKER).

QIMR Berghofer Research Retreat, Twin Waters, Nov 10-11, 2014 (INVITED SPEAKER).

Brisbane Cancer Conference, Brisbane, Dec 18-19, 2014 (INVITED PLENARY).

2015: National Key Laboratory of Medical Immunology, Second Military Medical University, Shanghai, China, Jan 15-16, 2015 (INVITED SPEAKER).

Medimmune LLC, Gaithersburg, MD, USA, May 1, 2015 (INVITED SPEAKER).

- Research Excellence in Cancer Care Symposium, Brisbane, July 15, 2015 (INVITED SYMPOSIUM).
- Brisbane Melanoma Interest Group Meeting, “Anti-PD1 resistance”, Brisbane, Aug 24, 2015 (INVITED SEMINAR).
- Australian Sarcoma Group Annual Meeting, Brisbane, October 17-18th, 2015 (INVITED PLENARY)
- Medical Oncology Group of Australia, Immunooncology Forum, Melbourne, Oct 24, 25, 2015 (INVITED SYMPOSIUM).
- 7<sup>th</sup> Barossa Meeting “Cell Signalling in Cancer Biology & Therapy”, Barossa Valley, 18-21 November, 2015 (INVITED SYMPOSIUM).
- Immunotherapy@Brisbane 2015, Brisbane, 24-26 November, 2015 (INVITED SYMPOSIUM).
- 2016: Seminar, Lady Cilento Childrens Hospital, Brisbane, 28th July, 2016 (INVITED SEMINAR)
- MOGA Immunooncology Forum, Implementation and Innovation in Immunotherapy, Aug 3, 2016 (INVITED PLENARY).
- Frontiers 2016: Garnett Pass Foundation, Gold Coast Sept 8-10th, 2016 (INVITED SYMPOSIUM).
- RBWH Herston Campus Retreat, Herston Partnerships, Nov 10th (INVITED TALK).
- Brisbane Cancer Conference, Immunooncology, Nov 24-25th, 2016 (INVITED PLENARY).
- MOGA Sciences of Oncology Education Program, Dec 3-4, 2016 (INVITED PLENARY - declined).
- 2017: Monash Institute of Pharmaceutical Sciences Seminar Series, “Targeting adenosine in cancer” Feb 22nd, 2017 (INVITED SEMINAR)
- Leaders in Science and Society Seminar, Garvan Institute, Sydney, Mar 17th, 2017 (INVITED SEMINAR).
- VCCC Inaugural Research Conference 2017, Melbourne, Sept 17-19th, 2017 (INVITED SYMPOSIUM).
- World Melanoma Congress and Society for Melanoma Research, Brisbane, Oct 18-20th, 2017 (INVITED TALK).
- John Curtin School of Medical Research, 10th November, 2017 (INVITED SEMINAR).
- QIMR CIVD Workshop, 14<sup>th</sup> November, 2017 (INVITED TALK).
- ASSC Annual Meeting, Brisbane, November 29<sup>th</sup>, 2017 (INVITED TALK).
- 2018: Drug Development Meeting, Sydney, 22-23<sup>rd</sup> March, 2018 (INVITED TALK)
- AMGEN Hematology and Oncology Symposium, Melbourne, 4-5<sup>th</sup> May, 2018 (INVITED PLENARY)
- Centre d’Immunologie de Marseille Luminy, France, June 21st, 2018 (INVITED SEMINAR)
- Suzhou Institute of Sytems Medicine, Suzhou, China, September 11<sup>th</sup>, 2018 (INVITED SEMINAR)
- Shanghai Institute of Hematology, Shanghai, Oct 22<sup>nd</sup>, 2018 (INVITED SEMINAR)

Nanjing University, Nanjing, Dec 4<sup>th</sup>, 2018 (INVITED SEMINAR)

2019: Horizon 2019, Melbourne, March 2<sup>nd</sup>, 2019 (INVITED SYMPOSIUM)

7<sup>th</sup> International PacRim Breast and Prostate Cancer Meeting, Barossa Valley, Sydney, 17-20th March, 2019 (INVITED SYMPOSIUM - declined)

### **Symposia/Plenary Chair:**

- 1994: Twenty-fourth Annual Scientific Meeting of the Australasian Society for Immunology, Canberra, December, 1994, " Mechanisms of Cytotoxicity."
- 1997: Annual Immunology of Victoria Conference, Mt. Buffalo, March, 1997.
- 1997: Twenty-seventh Annual Scientific Meeting of the Australasian Society for Immunology, Perth, WA, Dec 1997, "Tumour Immunology and Cytotoxic Cells."
- 1998: Twenty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Victoria, Dec 1998. "NK cells and Innate Immunity."
- 1998: Twenty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Victoria, Dec 1998. "Tumour Immunology."
- 1998: Twenty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Victoria, Dec 1998. "Clinical Trials of Vaccines."
- 2000: Eight Immunology of Victoria Annual Meeting, Mt Buffalo, Victoria, Oct 2000 "Infection and Immunity".
- 2000: Thirtieth Annual Scientific Meeting of the Australasian Society for Immunology, Sydney, Dec 2000. "Migration and inflammation in health and disease."
- 2001: Ninth Immunology of Victoria Annual Meeting, Mt Buffalo, Victoria, Oct 2001.
- 2002: The 19<sup>th</sup> International Natural Killer Cell Workshop, San Juan Puerto Rico, October, 2002.
- 2003: Sapporo International Cancer Symposium, Sapporo, Japan, July, 2003.
- 2003: ComBio 2003, Melbourne, October, 2003. "Tumor Immunology."
- 2003: The International Society for Interferon and Cytokine Research, Cairns, October, 2003. "Interferons in tumor immunology."
- 2003: Thirty-third Annual Scientific Meeting of the Australasian Society for Immunology, Perth, WA, Dec 2003. "Apoptosis and the immune system."
- 2004: International Congress in Immunology, Montreal, Canada, July, 2004.
- 2004: 3<sup>rd</sup> International Workshop on NKT cells and CD1 mediated antigen presentation, Heron Is, Australia, September, 2004.
- 2004: Thirty-fourth Annual Scientific Meeting of the Australasian Society for Immunology, Adelaide, SA, Dec 2004. Symposium "NK cells"(invited/declined).
- 2005: Thirty-fifth Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, Vic, Dec 2005. Symposium "Innate Immunity".
- 2006: 6<sup>th</sup> International Cytokine Meeting, Vienna, Austria, August, 2006 (INVITED CHAIR and SYMPOSIUM SPEAKER Microenvironment/Apoptosis).
- 2006: Thirty-six Annual Scientific Meeting of the Australasian Society for Immunology, Auckland, NZ, Dec 2006 (INVITED CHAIR)."Tumor immunology."
- 2007: Thirty-seventh Annual Scientific Meeting of the Australasian Society for Immunology, Sydney, NSW, Dec 2007 (INVITED CHAIR – TUMOUR IMMUNOLOGY WORKSHOP).
- 2008: Thirty-eighth Annual Scientific Meeting of the Australasian Society for Immunology, Canberra, ACT, Dec 2008 (INVITED CHAIR).
- 2009: Thirty-ninth Annual Scientific Meeting of the Australasian Society for Immunology, Gold Coast, December, 2009 (INVITED CHAIR - PLENARY)

- 2010: The AACR Annual Meeting, Washington DC, USA, April 17-21 (INVITED SYMPOSIUM CHAIR – Tumor immune suppression and escape).  
 Fourtieth Annual Scientific Meeting of the Australasian Society for Immunology, Perth, December, 2010 (INVITED CHAIR - WORKSHOP)  
 Fourtieth Annual Scientific Meeting of the Australasian Society for Immunology, Perth, December, 2010 (INVITED CHAIR – TUMOR IMMUNOLOGY WORKSHOP)
- 2011: Keystone Symposium “Antibodies as Drugs” Keystone, CO, USA, Feb 6-11<sup>th</sup>(INVITED CHAIR- PLENARY).
- 2011: Keystone Symposium “Cancer Control by Tumor Suppressors and Immune Effectors” Santa Fe, NM, USA, Feb 12-17<sup>th</sup> 2011 (INVITED CHAIR - Workshop).
- 2012: Fourty second Annual Scientific Meeting of the Australasian Society for Immunology, Melbourne, December 2012 (INVITED CHAIR – TUMOR IMMUNOLOGY WORKSHOP)
- 2016: CRI-CIMT-EATI-AACR Translating Science into Survival, New York, USA, Sep 25-28 (INVITED CHAIR).

### **Other presentations:**

- 1992: Fourteenth International Congress of the Transplantation Society, Paris, France, August, 1992. "T lymphocyte subsets with distinct lytic mechanisms."
- 1993: The Fifth Lorne Cancer Conference, Lorne, Australia, February, 1993. "Purification and cloning of a novel granzyme activity from natural killer cells."
- 1994: The Nineteenth Annual Lorne Conference on Protein Structure and Function, Lorne, Australia, February, 1994. "Granule serine proteases are normal nuclear constituents of natural killer cells."  
 Rotary Club of Heidelberg, October, 1994. "Lymphocyte-immunotherapy of cancer."
- 1995: The Ninth International Congress of Immunology, San Francisco, CA, USA, July, 1995. "Cytotoxic lymphocyte granule proteins trigger target cell death."
- 1996: The Twenty First Annual Lorne Conference on Protein Structure and Function, Lorne, Australia, February, 1996. "A novel substrate binding pocket interaction restricts the specificity of the human natural killer cell-specific serine protease, Met-ase-1."
- 1998: Tenth Lorne Cancer Conference, Lorne, Feb. 1998. "P-glycoprotein additionally protects drug-resistant tumor cells from multiple forms of caspase-dependent apoptosis."
- 2000: Twelfth Lorne Cancer Conference, Lorne, Feb. 2000.
- 2001: Thirteenth Lorne Cancer Conference, Lorne, Feb. 2001.
- 2003: Fifteenth Lorne Cancer Conference, Lorne, Feb. 2003.
- 2005: AAI Meeting/FASEB, San Diego, April, 2005.
- 2011: 19<sup>th</sup> Annual International Symposium. Immune Effector Mechanisms in Tumor Immunity. Cancer Research Institute, New York City, New York, USA. Oct 3-5, 2011.

## **Teaching Experience:**

### **Lecturing:**

I used to spend 4-6 hours a year in undergraduate teaching (Monash and Uni. Melbourne- Dept. Pathology and nationally). At QIMR I am committed to working with Universities to provide an opportunity to nurture new talent to join the effort to understand and treat cancer. Students, including foreign trainees are engaged in quality experimental science in my laboratory. I strive to attract the best students from tertiary and post-graduate areas and inspire them to pursue further studies in treatment and research in cancer-related fields.

### **Postgraduate and undergraduate teaching involvement:**

#### **Positions held**

1984	Demonstrator in Histology, University of Melbourne
1986	Demonstrator in Microbiology, University of Melbourne
1990	Supervisor, Frederick County Student Intern Program, NCI-Frederick Cancer Research and Development Center, Frederick, MD, USA
1993-2000	Senior Associate in the Department of Surgery, Austin and Heidelberg Repatriation Hospitals, University of Melbourne.
1993-	Senior Associate in the Department of Surgery, Austin and Heidelberg Repatriation Hospitals, University of Melbourne
1994-1998	Senior Associate in the Department of Pathology, University of Melbourne.
1998-2000	Associate Professor, Victoria University of Technology
1998-2000	Senior Fellow in the Department of Medicine, Austin and Heidelberg Repatriation Medical Centre.
1999-2006	Associate Professor, Department of Pathology, University of Melbourne
1999-2006	Honorary Associate Professor in the Department of Microbiology and Immunology, University of Melbourne.
1999-2006	Honorary Associate Professor in the Department of Pathology and Immunology, Monash University.
2006-	Honorary Professor in the Department of Pathology and Immunology, Monash University.
2007-	Honorary Professor, Department of Pathology, University of Melbourne
2007-	Honorary Professor in the Department of Microbiology and Immunology, University of Melbourne.
2013-	Honorary Professot in the School of Medicine, University of Queensland.

#### **Undergraduate:**

In departments with whom I have held positions (as above), I have provided ad-hoc lecturing to third year B.Sc. and Medical undergraduates. In general, I have provided a total of between one to three lectures per year on topic such as NK cells, tumor immunology and immunotherapy and cellular cytotoxicity.

#### **Postgraduate:**

I have (or are currently) supervised and trained the following students:

\*joint supervision with Joe Trapani, \*\* with Ricky Johnstone, \*\*\* with Dale Godfrey, \*\*\*\* with Kresten Skak, # with Phillip Darcy, ## with Nicole Haynes, ### with Trina Stewart, % with Daniel Andrews, \$ with Shaun McColl, \$\$ with Andreas Moeller, & with Steven Lane

#### **Other students**

Mr Jason Chen	Winter Research Program [School of Biomedical Sciences, University of Queensland] (Jun-Aug 2015) (Aug-Nov 2015, SCIE3220).
Ms. Yelena Krasnova	Winter Research Program [University of Queensland] (Jun-Aug 2015).
Ms. Tricia Treo	Winter Research Program [University of Queensland] (Jun-Aug 2016).

#### **B. Sc. (Project):**

Ms. Laura McDade	Immunology [University of Queensland] (July 2013-Nov 2013)
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**B. Sc. (Hons.):**

*Ms. Pangayachelvi Ganesvaran	B. Sc. (Hons.) [University of Melbourne] (1994) - H2A.
Mr. Michael O'Connor	B. Sc. (Hons.) [University of Melbourne] (1995) – H1.
Ms. Nicole Haynes	B. Sc. (Hons.) [University of Melbourne] (1997) – H1 (1 <sup>st</sup> ).
**Ms. Jenny Lo	B. Sc. (Hons.) [University of Melbourne] (1997) – H1.
Ms. Hong Chi-Ly	B. Sc. (Hons.) [University of Melbourne] (1999) - H1.
***Mr. Kon Kyparissoudis	B. Sc. (Hons.) [Monash University] (2001) – H1 (1 <sup>st</sup> ).
#Ms. Michele Teng	B. Sc. (Hons.) [University of Melbourne] (2001) – H1.
#Ms. Maria Moeller	B. Sc. (Hons.) [University of Melbourne] (2001) – H1 (1 <sup>st</sup> ).
%Mr. Christopher Chan	B. Sc. (Hons.) [Monash University] (2008) – H1 (1 <sup>st</sup> )
%Mr. Melvyn Chow	B. Sc. (Hons.) [University of Melbourne] (2009) – H1 (1 <sup>st</sup> ).
###Ms. Francisca Go	B. Sc. (Hons.) [University of Melbourne] (2009) – H1 (1 <sup>st</sup> ).
##Ms Jenna Langfield	B. Sc. (Hons.) [University of Melbourne] (2009) – H1 (1 <sup>st</sup> ).

**M.Sc.:**

Ms. Kimberley Ottaway	M.Sc. [Hood College, Frederick, MD] (completed 1991).
*Mr. Michael Kershaw	M.Sc. (Prelim) [University of Melbourne] (1993) – H1.
Ms. Erika Cretney	M.Sc. (part-time) [University of Melbourne] (2000-June2002).
Mr Kevin Kos	M.Sc. [Vrije Universiteit Amsterdam] (2016).

**Ph.D.:**

Mr. Michael Kershaw	Ph. D. [University of Melbourne] (1994-1997 completed).
*Mr. Kevin Thia	Ph.D. [University of Melbourne] (1995- converted to MSc.).
#Ms. Nicole Haynes	Ph.D. [University of Melbourne] (1998-2002 completed).
**Ms. Astrid Ruefli	Ph.D. [University of Melbourne] (1998-2002 completed).
***Ms. Nadine Crowe	Ph.D. (Monash University) (2000- 2003 completed).
Ms. Erika Cretney	Ph.D. [University of Melbourne] (July 2002-2004 completed).
***Ms. Jessica Markby	Ph.D. (Monash University) (2000-2006 completed).
***Ms. Shayna Street	Ph.D. (Monash University) (2001- 2005 completed).
#Ms. Michele Teng	Ph.D. [University of Melbourne] (2002-2006 completed).
#Ms. Maria Moeller	Ph.D. [University of Melbourne] (2003-2007 completed).
Mr. Jeremy Swann	Ph.D. [University of Melbourne] (February 2003-2007 completed).
**Ms. Aisla Frew	Ph.D. [University of Melbourne] (February 2005-2008 completed)
***Mr. Paul Bolitho	Ph.D. [University of Melbourne] (February 2005-)
*Ms. Desiree Anthony	Ph.D. [University of Melbourne] (February 2005-2009 completed)
****Mr. Henrik Sondergaard	Ph.D. [University of Copenhagen] (Oct 2006-2010 completed).
\$Ms. Yuka Harata-Lee	Ph.D. [University of Adelaide] (March 2008-2012 completed)
%Mr Christopher Chan	Ph.D. [Monash University] (June 2009-2013 completed)
**Ms Alison West	Ph.D. [University of Melbourne] (February 2009-2013 completed)
Mr. Shin Foong Ngiow (Malaysia)	Ph.D. [University of Melbourne] (June 2009-2013 completed).
%%Mr Melvyn Chow	Ph.D. [University of Melbourne] (March 2010-April 2013 completed)
\$\$Ms Jacelyn Sceneay	Ph.D. [University of Melbourne] (May 2010-Dec 2013 completed)
Mr. Lucas Ferrari de Andrade	Ph.D. [Universidade Federal do Parana](Mar 2011-Aug 2014 completed)
\$\$Ms Jing Liu	Ph.D. [University of Queensland] (Feb 2013-June 2016 completed)
\$Ms. Carly Gregor	Ph.D. [University of Adelaide] (March 2013-September 2018 completed)
Ms. Arabella Young	Ph.D. [University of Queensland] (July 2013-April 2017 completed)
Ms. Rebecca Austin	Ph.D. [University of Queensland] (Feb 2014-)
Ms. Heidi Harjunpaa	Ph.D. [University of Queensland] (July 2014-October 2018 submitted)
Ms. Elizabeth Ahern	Ph.D. [University of Queensland] (Apr 2015)
Mr. Yuling Gao	Ph.D. [University of Queensland] (Apr 2015)
Mr Juming Yan	Ph.D. [University of Queensland] (Apr 2015)
Mr Dillon Corvino	Ph.D. [University of Queensland] (Apr 2015)
Mr Jake O'Donnell	Ph.D. [University of Queensland] (Jan 2016)

**Other:**

Ms. Angela Gordon  
Ms. Jenny Dwyer

ACCV Kathleen Cunningham Foundation Studentship (95-96)  
ACCV Studentship (2000-2001).

**Awards to Students:**

Dr. Michael Kershaw

awarded NH&MRC C.J. Martin Fellowship (1998).

\*Mr. Kevin Thia

awarded a NH&MRC Dora Lush Scholarship (1995).

\*\*\*Ms. Shayna Street

awarded a NH&MRC Dora Lush Scholarship (2001).

#Ms. Nicole Haynes

awarded Amgen Prize (Deans Hons.) (1997).

#Ms. Michele Teng

awarded MIRS and MIFRS for International students (2001).

\*\*\*Mr. Kon Kyparissoudis

B.Sc. (Hons) Nairn Medal for Departmental Top of Year

#Ms. Nicole Haynes

Peter MacCallum Cancer Institute Post-Graduate Student Medal, 2002  
Cancer Council of Victoria Post-doctoral Fellow, University of Melbourne (2003-).

#Ms. Nicole Haynes

\*\*Dr. Astrid Ruefli

Premiers Award for Medical Research, 2002, Winner

Ms. Erika Cretney

1st Poster Prize, 9th International Congress on TNF related cytokines, San Diego, 2002.

Ms. Michele Teng

1st Poster Prize, Australasian Society for Immunology, Perth, 2003.

Ms. Erika Cretney

Peter MacCallum Cancer Centre Post-Graduate Student Medal, 2004.

Ms. Erika Cretney

Cure Cancer Foundation Ph.D. Student Finalist, 2004.

Ms. Nadine Crowe

Premiers Award for Medical Research, 2004, Commendation.

Ms. Erika Cretney

Premiers Award for Medical Research, 2004, Commendation.

Ms. Shayna Street

St. Jude Children's Research Hospital Special Post-doctoral Fellowship, 2005.

Mr. Jeremy Swann

1st Poster Prize, Australasian Society for Immunology Tumour Immunology, Adelaide, 2005.

Ms. Aisla Frew

Cancer Research Institute Pre-doctoral Scholarship (2005).

Mr. Paul Bolitho

Cancer Research Institute Pre-doctoral Scholarship (2005).

Dr. Erika Cretney

Premiers Award for Medical Research 2005, Commendation.

Dr. Erika Cretney

Victoria Fellowship (2005).

Ms. Michele Teng

Jean Gilmore Bursary, Australian Federation of University Women (2005).

Mr. Jeremy Swann

Ferid Murad Poster Award, ISICR Meeting, Shanghai, China (2005).

Mr. Jeremy Swann

Peter MacCallum Cancer Centre Post-Graduate Student Medal, 2007.

Ms. Maria Moeller

Peter MacCallum Cancer Centre Post-Graduate Student Medal, 2007.

Mr Christopher Chan

Peter MacCallum Cancer Centre Lundie Award, 2008.

Mr. Christopher Chan

Top rank student for Faculty of Medicine, Nursing and Health Sciences, Monash University.

Mr Christopher Chan

Leukemia Foundation Scholarship, 2009-2011.

Mr Christopher Chan

Cancer Research Institute Pre-doctoral Scholarship (2009, declined).

Mr Christopher Chan

2008 Lundie Prize (Best Honours Graduate, Peter Mac).

Ms Alison West

NH&MRC Biomedical Postgraduate Scholarship 2009.

Mr Melvyn Chow

Cancer Research Institute Pre-doctoral Scholarship (2010).

Mr Melvyn Chow

Beaney Scholarship in Pathology (2010).

Mr Melvyn Chow

awarded fee paying scholarship for International students (2011).

Mr Shin Foong Ngiow

Travel Bursary, 14<sup>th</sup> ICI Congress, Kobe (2010).

Mr Shin Foong Ngiow

Awarded fee paying scholarship for International students (2011).

Ms. Alison West

Cancer Therapeutics CRC Travel Scholarship (2011).

Ms Alison West

Cancer Therapeutics CRC Best Oral Presentation (2011).

Mr Christopher Chan

Travel Award and Oral Presentation NK2012 meeting of Society of Natural Immunity (2012)

Ms. Alison West

Cancer Council of Victoria Post-doctoral Fellow, University of Melbourne (2012-).

Mr Shin Foong Ngiow

ASI Travel Bursary, 15<sup>th</sup> ICI Congress, Milan (2013).

Ms. Jaclyn Sceneay

Peter MacCallum Cancer Centre Post-Graduate Student Medal, 2013.

Ms. Jing Liu

Awarded fee paying scholarship for International students (2012).

Ms. Arabella Young

CCQ Postgraduate Scholarship (2014-2016).

EMBL Australia Travel Award (2013).

Mr. Lucas Andrade	Travelling Fellowship from the Conselho Nacional de Pesquisa e Desenvolvimento Tecnológico
Mr. Christopher Chan	Peter MacCallum Cancer Centre Post-Graduate Student Medal, 2014.
Ms. Rebecca Austin	Leukemia Foundation Postgraduate Scholarship (2015-2017).
Ms. Yuka Harata-Lee	Immunology and Cell Biology Publication of the Year (2014).
Ms. Arabella Young	ASMR Queensland Best Postgraduate Presentation (2016).

**Postdoc trained:**

Phil Darcy (1995-2000), Ricky Johnstone (1996-1999), Michael Kershaw (2002-2005), Erika Cretney (2005-2006), Morgan Wallace (2003-2005), Serani van Dommelen (2004-2007), Jeremy Swann (2007), Yoshihiro Hayakawa (2002-2006), Adam Uldrich (2006-2010), Ailsa Frew (2009-2010), John Stagg (2006-2010), Christel Devaud (2010-2011), Paul Beavis (2011-2013), Trina Stewart (2008-2011), Nicole Haynes (2007-2013), Stephen Mattarollo (2010-2012), Daniel Andrews (2007-2013), Nikola Baschuk (2010-2013), Michele Teng (2006-2013), Christophe Paget (2010-2013), Ludovic Martinet (2012-2014), Melvyn Chow (2013-2014), Fernando Guimaraes (2013-2016), Shin Foong Ngiow (2013-), Stephen Blake (2014-2016), Eva Putz (2015-2017).

**Postdoc current:**

Liam Town (2012-), Deepak Mittal (2013-), Kimberley Stannard (2013-), Camille Guillerey (2014-), Xian-Yang Li (2015-), Deborah Barkauskas (2015-), Kyohei Nakamura (2015-), Dipti Vijayan (2016-), Tobias Bald (2016-), Indrajit Das (2017-), Matthias Braun (2017-).

**Sabbatical:** Kresten Skak (2007-2008), Kazuyoshi Takeda (2005-2007), John Stagg (2018-2019)

**Senior Principal Research Fellow:** William Dougall (2016-)

**Postdoc Awards/Grants:**

Dr. Daniel Andrews	NH&MRC Doherty Fellowship (2007-2011) NH&MRC New Investigator Project Grant (2009-2011): "Understanding NK cell homeostasis." (566602)  CA Project Grant (628304) (2010)  NH&MRC CDA1 (1028245) (2012-2015).  NH&MRC Project Grant (2013).
Dr. Morgan Wallace	NH&MRC Doherty Fellowship (2003-2006)
Dr. John Stagg	DoD concept award: Characterization of the immune modulatory effect of regulatory T cells on NK cells during breast cancer for the development of novel therapeutic strategies. (2005-2006)  Appointed Assistant Professor, Faculty of Pharmacy (Tenure Track), Montreal Cancer Centre, University of Montreal, Canada.  NH&MRC Project Grant (2011-2013). Role of CD73 in cancer: validating a novel therapeutic target.
Dr. Michele Teng	Cancer Council of Victoria Post Doctoral Fellowship: Genetic modification of NKT cells for cancer therapy. (2005-2006). ASI Post-doctoral Travelling Award, 2007. NH&MRC Doherty Fellowship (2007-2011). PCFA Research Project Grant (2011-2013). NH&MRC CDA1 (1025552)(2012-2015). Team Head, QIMR.

Dr. Erika Cretney	Cancer Council of Victoria Post-doctoral Fellow, University of Melbourne (2005-2006) NH&MRC Doherty Fellowship (2009-2013)
Dr. Yoshihiro Hayakawa	Cancer Research Institute Post-doctoral Fellowship (2002-2004) NH&MRC RD Wright Fellowship (2006-2009) NH&MRC Project Grant (400096)(2006-2008)
Dr. Nicole Haynes	Post-doctoral Fellow with Jason Cyster, UCSF, CA, USA (2004-2006). NH&MRC CJ Martin Fellowship, Peter MacCallum Cancer Centre/Cure Cancer Australia and Cancer Australia Project Grant (2010): “Characterization of the immunoregulatory capacity of antibody-based immunotherapeutics in established cancer.”
Dr. Nadine Crowe	Cancer Council of Victoria Post-doctoral Fellow, University of Melbourne (2003-2004)
Dr. Michael Kershaw	NH&MRC R. D. Wright Fellow, Cancer Immunology Program, Peter Mac. NH&MRC Project Grant (2007-2009) NH&MRC Project Grant Generating Tumour - specific Dendritic cells for cancer therapy (2007-2009) NH&MRC CDA2 NH&MRC Senior Research Fellowship (2009-2013) NH&MRC Program Grant (2012-2016)
Dr. Astrid Ruefli	Post-doctoral Fellow, Genentech Corp., CA, USA Senior Scientist, AMGEN Corp, San Francisco, CA, USA
Dr. Ailsa Frew	Cancer Council of Victoria Post-doctoral Fellow, University of Melbourne (2009-2010). ETH Post-doctoral Fellowship, Institute of Pharmaceutical Sciences, Zurich, Switzerland (2011-2012). C.J. Martin Fellowship (2011-2014)
Dr. Trina Stewart	Cancer Council of Victoria Project Grant (2010-2012). “Use of anti-CCL2 mAb therapy as an adjuvant to reduce tumour growth and tumour-induced immunosuppression.”
Dr. Trina Stewart	National Breast Cancer Foundation Early Career Fellowship (2010-2013).
Dr. Christel Devaud	Fondation Recherche Medicale Post Doctoral Fellowship (2010).
Dr. Christophe Paget	DOD Breast Cancer Program Post-doctoral Fellowship (2011-2014). INSERM Charge de Recherche Rank 1.
Dr. Stephen Mattarollo	Victorian Cancer Agency Early Career Seed Grant (2011) NH&MRC Project Grant (2013-2015 - \$434,640). CCQ Project Grant (2014-2015 - \$200,000) Research Fellow/Group Leader, Translational Research Institute. NH&MRC CDF1 (2013-2017)
Dr. Ludovic Martinet	QIMR Collaborative Seed Funding Grant (2013, \$35,000)
Dr. Paul Beavis	NBCF Post Doctoral Fellowship (2014-2017).
Dr. Deepak Mittal	2013 Weekend to End Women’s Cancers Grant (2013, \$50,285)
Dr. Fernando Guimaraes	2014 NH&MRC Early Career Fellowship (2015-2018)

Dr. Shin Foong Ngiow	NH&MRC C.J. Martin Fellowship (2016-2019) QIMR Berghofer
Dr. Camille Guillerey	2015 NH&MRC Early Career Fellowship (2016-2019)
	QIMR Collaborative Seed Funding Grant (2016, \$20,000)
	Cure Cancer Australia Grant (2017)
Dr. Kyohei Nakamura	QIMR Collaborative Seed Funding Grant (2016, \$20,000)
Dr. Tobias Bald	EMBO Fellowship (2016-2017)
Dr. Tobias Bald	NH&MRC Early Career Fellowship (2017-2020)
Dr. Tobias Bald	NH&MRC Project Grant (2018-2020)
Dr. Arabella Young	NH&MRC C.J. Martin Fellowship (2018-2021) QIMR Berghofer
Dr. Kyohei Nakamura	NH&MRC New Investigator Grant (2019-2021)

### **Founding faculty member of the Cancer Research Institute Pre-doctoral Emphasis Program in Tumour Immunology:**

The Cancer Research Institute (CRI, <http://www.cancerresearch.org>) was founded in 1953 to foster the science of cancer immunology and in 1998 established the Pre-doctoral Emphasis Pathway in Tumour Immunology with the aim of attracting science and medicine students into the field of cancer immunology. I founded a Faculty comprising three institutions in Melbourne: the Peter MacCallum Cancer Centre; the University of Melbourne Department of Microbiology and Immunology; and the Ludwig Institute for Cancer Research, and was in 2004 awarded a Program grant (\$US450,000) to train new students for PhD and MD degrees in Tumour Immunology at The University of Melbourne. The Faculty in conjunction with the University of Melbourne has made 5 highly prestigious and competitive awards for students commencing in 2004 through 2007. These scholarships are providing valuable financial support for promising researchers, excellent research training in Tumour Immunology and many additional professional development opportunities. The Program has expanded across several Institutes in Melbourne (now including WEHI) and was re-awarded in 2006 and 2010 for third 4-year term.

Jon Coquet  
 Paul Bolitho  
 Jessica Bolden  
 Lauren Pitt  
 Olivia Susanto  
 Ailsa Frew  
 Nicole Messina  
 Erika Duan  
 Nieroshan Rajarubendra  
 Qian Li  
 Garth Cameron  
 Mohammed Hassin  
 Melvyn Chow  
 Shin Foong Ngiow

### **Peter MacCallum Cancer Centre Administration:**

Past Member of Animal Ethics Experimentation Committee (2000-2002)  
 Member of the Animal Facility Core Review Committee (2000- )  
 Member of Student Advisory Committee (2000- )  
 Member of the Education Committee (2005- )  
 Developing research staff classification and research strategy documents.

I was the co-Head of the Cancer Immunology Program at the Peter Mac (~75 combined staff and higher degree students). I spent 2-3 days a year formally reviewing our Program at a retreat. This was a comprehensive meeting covering all aspects of our research at Peter Mac, including our budget, staff issues, mentoring students, relationships with collaborators, funding opportunities, commercialization and clinical opportunities, and resource allocation. I also attended a weekly 1hr Program meeting as well as my own 1hr laboratory meeting.

We employed a full-time Laboratory manager, to assist in day-to-day ordering, inventory, safety, and budget quality control.

I was one of seven members of a Research Management Team (RMT) running the Research Division at Peter Mac. We met every two weeks for an afternoon to discuss a wide range of Research Division issues including budget, recruitment, policy, infrastructure, granting opportunities, annual performance reviews and a host of other matters. Generally, as a member of this executive I had a couple of major tasks over the year. I was instrumental in preparing the “Process of Review, Incrementation and Promotion” document for all research staff at the Peter Mac. I also played a role in the refurbishment and space allocation of the animal facilities (Strategic Animal Space Committee) and have played a role in the appointment of new Investigators (Recruitment). On occasion, as a member of this executive, I was also asked to contribute to Peter Mac Hospital strategic policy. I was a member of the Education committee overseeing the Education Officer.

I also participated in several Peter Mac committees (postgraduate student committee, animal facility core review committee, and Peter Mac animal ethics experimentation committee). My role on student committee was to ensure students are making progress and are provided the appropriate intellectual environment and resources. As one of three senior staff supervising the core activity of the animal house and its manager, I was responsible for the efficient and ethical running of two major animal facilities. The student review committees met twice a year for a total of 4 days and the ethics and animal users group meetings occur about 10 times a year for half a day each. I was a member of the organising committee of the 5<sup>th</sup> Peter Mac Symposium (2003), Chairman of the organizing committee of the 2010 Peter Mac Therapeutics Retreat.

### **Queensland Institute of Medical Research Administration:**

Senior Scientist, Management Advisory Group (Senior Executive-DCC)(2013-)  
Immunology Coordinator (administration as Head of Department)(2015-)  
Animal Ethics and Experimentation Committee Category B Member (2013, 2014)  
QIMR Berghofer Medical Research Institute Retreat Committee (2013)

### **Other Interests:**

Golf

- Member, Heidelberg Golf Club (1977-1984) – junior champion 3 times
- Member, Kingston Heath Golf Club 1981-2007 – junior champion 2 times
- Member RACV Golf Club (2017-)
- Victorian Junior Team 1980-83,
- Victorian Sand Greens Champion 1985
- Nepean Open Champion 1984
- University of Melbourne Full Blue 1985,86,88
- All Australian University Team 1985,86,88
- Australian University Champion 1986,88

Professional Tournaments - Victorian Open 1981, 1984; Australian Open 1983

Member                      Melbourne Cricket Club

## **BIBLIOGRAPHY:**

### **PEER REVIEW ARTICLES: [citations]**

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3. **Smyth, M. J.**, Pietersz, G. A., and McKenzie, I. F. C.: Selective enhancement of antitumor activity of N-acetyl Melphalan upon conjugation to monoclonal antibodies. Cancer Res. 47:62-69, 1987 [55].
4. **Smyth, M. J.**, Pietersz, G. A., and McKenzie, I. F. C.: The in vitro and in vivo antitumor activity of N-AcMEL-F(ab')<sub>2</sub> conjugates. Br. J. Cancer 55:7-11, 1987 [18].
5. **Smyth, M. J.**, Pietersz, G. A. and McKenzie, I. F. C.: The use of vasoactive agents to increase tumor perfusion and the anti-tumor efficacy of drug-mono-clonal antibody conjugates. J. Natl. Cancer Inst. 79:1367-1373, 1987 [58].
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10. Mottram, P. L., **Smyth, M. J.**, Pietersz, G. A., Clunie, G. J. A., and McKenzie, I. F. C.: Anti-T- cell monoclonal antibodies for in vivo treatment of cardiac allograft rejection in mice. Transplantation Proc. 21:1020-1021, 1989 [n/a].
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12. Mottram, P. L., **Smyth, M. J.**, Pietersz, G. A., Clunie, G. J. A., and McKenzie, I. F. C.: Anti-T-cell-specific immunoconjugates in mice: In vivo effects. Transplantation Proc. 21:3757-3759, 1989 [n/a].
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15. Pietersz, G. A., Krauer, K., Toohey, B., **Smyth, M. J.**, and McKenzie, I. F. C.: Biodistribution of N-acetylmelphalan-mono-clonal antibody conjugates in mice. Antibody: Immunoconjugates and Radiopharmaceuticals 3:27-35, 1990 [n/a].

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PI 1994 "Antibody Conjugates and Tumour Necrosis Factor in Cancer Therapy."

PI 2955 "Immunosuppression."

US 07/990301, WO 94/12647 "Novel serine protease from lymphocyte granules and uses thereof." (filed December 3<sup>rd</sup>, 1993). Co-inventor – Thomas J. Sayers. Granted in USA, Australia, Japan, Canada, UK and all major European countries. This patent covers the discovery and uses of a novel and unique serine protease that I cloned.

US Provisional 60/137993 "Cell for identifying potential therapeutics." (filed June 7<sup>th</sup>, 1999, not continued).

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Provisional Application, "Methods and Compositions for Adoptive Immunotherapy"

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Inventors: J.A. Trapani, **M.J. Smyth**, M.H. Kershaw, P.K. Darcy.

Provisional application, "Recombinant perforin, expression and uses thereof"  
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Inventors: Y. Hayakawa and **M.J. Smyth**

"Dihydrofuru[3,4-c]pyridin-3(1H)-ones, preparation and uses thereof".  
Provisional application August 1, 2008.

Inventors: JA Trapani, **MJ Smyth**, W Denny, J Spicer and G Lena

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Provisional application August 1, 2008.

Inventors: JA Trapani, **MJ Smyth**, W Denny, J Spicer and G Lena

"Cancer Diagnostic"

WO Patent 2,012,031,320, 2012

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PCT application PCT/AU2011/001148 filed 6/9/11

Inventors: J Stagg, **MJ Smyth**, S Loi

Immunoreceptor modulation for treating cancer and viral infections

PCT Application No.: PCT/AU2013/001132, filed 03/10/13

Provisional application AU2013903189, filed 22/08/13

Inventor: **MJ Smyth**

Methods and products for preventing and/or treating metastatic cancer.

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Inventors: S McColl, I Comerford, Y Harata Lee, **MJ Smyth**

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Agents for Cancer Therapy or Prophylaxis and Uses Therefor

PCT Application No.: PCT/AU2018/050557, filed 05/06/18

Provisional Application: AU2017902125, filed 05/06/17

Inventors: MJ Smyth, WC Dougall, E Ahern and MWL Teng

Therapeutic Composition and Uses Therefor

Provisional Application: PCT/AU2018/050437, filed 10/05/18

Inventors: **MJ Smyth** and K Nakamura