



Dr Winston Liauw

MB BS (Syd) MMedSci (UNSW) FRACP

Medical Oncologist, Clinical Pharmacologist

Curriculum Vitae 2010

Cancer Care Centre

St George Hospital

Gray St Kogarah NSW Australia 2217

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Executive Summary

Dr Winston Liauw is a medical oncologist and clinical pharmacologist and currently practices both of these disciplines. He has completed a Masters degree in pharmaceutical development. His clinical practice is based around gastrointestinal cancer with a speciality in regional and intraperitoneal chemotherapy. His research interests are based around pharmaceutical development and he is currently a principal or co-investigator on numerous industry and investigator initiated clinical trials including phase 1 research. In this capacity he has provided consulting services for the biotechnology industry and contract research organisations. He has been heavily involved in research ethics and regulation and is deputy chair of the Shared Scientific Assessment Scheme Core Committee and the Cancer Institute NSW Human Research Ethics Committee (Clinical Trials) and has recently been appointed chair of the St George Hospital Human Research Ethics Committee. He has published the results of clinical trials, cancer outcomes research, on adverse event reporting in clinical trials and the review of clinical trial protocols. Dr Liauw other interests include medical education and the use of information technology in medicine.

Professional & Contact Details

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Social Networks: Twitter, Flickr, Facebook, Linked-In, Posterous

Date of Birth 8th October 1970

Medical Registration MPO 311210 since 9.Jan.1995
Medical Indemnity MIPS M208677

Employment History

(Reverse Chronological)

6/2005 to present	Staff Specialist Cancer Care Centre, St George Hospital and The Sutherland Hospital
1/2005 to present	Private Practitioner Southern Oncology Specialists, St George Private Hospital
7/2004 to 7/2005	Locum Staff Specialist, Cancer Care Centre, St George Hospital
7/2004 to 2/2009	Visiting Oncologist, Griffith Base Hospital
1/2002 to 1/2006	Medical Officer, Clinical Trials Centre, St Vincent's Hospital, cross-appointed, Department of Clinical Pharmacology and St Vincent's Hospital Blood and Cancer Research Group (Garvan Institute)
1/2000 to 4/2002	Advanced Trainee in Medical Oncology, Cancer Care Centre, St George Hospital
1/1997 to 1/2000	Basic Physician Trainee, Royal Prince Alfred Hospital
1/1996 to 1/1997	RMO 1, Royal Prince Alfred Hospital
1/1995 to 1/1996	Intern, Royal Prince Alfred Hospital
1990 to 1993	P/T Laboratory Assistant, C2 Lab, Centre for Immunology, St Vincent's Hospital
12/1989 to 1/1990	Computer Skills Teacher, Abbotsleigh School, Wahroonga

Education History

1986	NSW School Certificate, Knox Grammar School
1988	NSW Higher School Certificate, Knox Grammar School
1995	Bachelor of Medicine, Bachelor of Surgery, University of Sydney
2002	Fellowship Royal Australasian College of Physicians – Medical Oncology
2003	Fellowship Royal Australasian College of Physicians – Clinical Pharmacology
2003	Master of Medical Science in Drug Development, University of New South Wales

Peer Reviewed Publications (1-28)

1. Pourgholami MH, Sz wajcer M, Chin M, Liauw W, Seef J, Galettis P, et al. Phase I clinical trial to determine maximum tolerated dose of oral albendazole in patients with advanced cancer. *Cancer Chemother Pharmacol*. 2010 Nov 11.
2. Chua TC, Saxena A, Schellekens JF, Liauw W, Yan TD, Fransi S, et al. Morbidity and mortality outcomes of cytoreductive surgery and perioperative intraperitoneal chemotherapy at a single tertiary institution: towards a new perspective of this treatment. *Ann Surg*. 2010 Jan;251(1):101-6.
3. Chua TC, Martin S, Saxena A, Liauw W, Yan TD, Zhao J, et al. Evaluation of the cost-effectiveness of cytoreductive surgery and hyperthermic intraperitoneal chemotherapy (peritonectomy) at the St George Hospital peritoneal surface malignancy program. *Ann Surg*. 2010 Feb;251(2):323-9.
4. Jo Chua Y, Michael M, Zalcborg JR, Hicks RJ, Goldstein D, Liauw W, et al. Antitumor Effect of Somatostatin Analogs in Neuroendocrine Tumors. *J Clin Oncol*. 2009 Dec 14.

5. Chua TC, Saxena A, Liauw W, Kokandi A, Morris DL. Systematic Review of Randomized and Nonrandomized Trials of the Clinical Response and Outcomes of Neoadjuvant Systemic Chemotherapy for Resectable Colorectal Liver Metastases. *Ann Surg Oncol*. 2009 Oct 24.
6. Chua TC, Robertson G, Liauw W, Farrell R, Yan TD, Morris DL. Intraoperative hyperthermic intraperitoneal chemotherapy after cytoreductive surgery in ovarian cancer peritoneal carcinomatosis: systematic review of current results. *J Cancer Res Clin Oncol*. 2009 Dec;135(12):1637-45.
7. Chua TC, Liauw W, Saxena A, Chu F, Glenn D, Chai A, et al. Systematic review of neoadjuvant transarterial chemoembolization for resectable hepatocellular carcinoma. *Liver Int*. 2009 Nov 13.
8. Chua TC, Liauw W, Robertson G, Morris DL. Establishing evidence for change in ovarian cancer surgery--proposing clinical trials of cytoreductive surgery and hyperthermic intraperitoneal chemotherapy (HIPEC) in ovarian cancer peritoneal carcinomatosis. *Gynecol Oncol*. 2009 Oct;115(1):166-8; author reply 8-9.
9. Chua TC, Liauw W, Robertson G, Chia WK, Soo KC, Alobaid A, et al. Towards randomized trials of cytoreductive surgery using peritonectomy and hyperthermic intraperitoneal chemotherapy for ovarian cancer peritoneal carcinomatosis. *Gynecol Oncol*. 2009 Jul;114(1):137-9; author reply 9.
10. Chua TC, Liauw W, Morris DL. The St George Hospital Peritoneal Surface Malignancy Program--where are we now? *ANZ J Surg*. 2009 Jun;79(6):416-8.
11. Chua TC, Liauw W, Morris DL. New treatments and outcomes in peritoneal carcinomatosis. *Med J Aust*. 2009 Jul 6;191(1):3-4.
12. Chua TC, Koh JL, Yan TD, Liauw W, Morris DL. Cytoreductive surgery and perioperative intraperitoneal chemotherapy for peritoneal carcinomatosis from small bowel adenocarcinoma. *J Surg Oncol*. 2009 Aug 1;100(2):139-43.
13. Chua TC, Al-Mohaimeed K, Liauw W, Morris DL. Pseudomyxoma peritonei: a need to establish evidence-based standard of care--is this the right trial? *Ann Surg Oncol*. 2009 Oct;16(10):2675-7.
14. Cao CQ, Yan TD, Liauw W, Morris DL. Comparison of optimally resected hepatectomy and peritonectomy patients with colorectal cancer metastasis. *J Surg Oncol*. 2009 Dec 1;100(7):529-33.
15. Xu H, Williams KM, Liauw WS, Murray M, Day RO, McLachlan AJ. Effects of St John's wort and CYP2C9 genotype on the pharmacokinetics and pharmacodynamics of gliclazide. *Br J Pharmacol*. 2008 Apr;153(7):1579-86.
16. Mohammed Abdul MI, Jiang X, Williams KM, Day RO, Roufogalis BD, Liauw WS, et al. Pharmacodynamic interaction of warfarin with cranberry but not with garlic in healthy subjects. *Br J Pharmacol*. 2008 Aug;154(8):1691-700.
17. King J, Quinn R, Glenn DM, Janssen J, Tong D, Liauw W, et al. Radioembolization with selective internal radiation microspheres for neuroendocrine liver metastases. *Cancer*. 2008 Sep 1;113(5):921-9.
18. Burrell C, Booy R, Wood N, Egan AM, Taverner D, Williams K, et al. Immunogenicity of a reduced dose of A/H3N2 in the 2005 southern hemisphere formulation of inactivated split influenza vaccine. *Influenza Other Respi Viruses*. 2008 May;2(3):93-8.
19. Grimison P, Galettis P, Manners S, Jelinek M, Metharom E, de Souza PL, et al. Randomized crossover study evaluating the effect of gemcitabine infusion dose rate: evidence of auto-induction of gemcitabine accumulation. *J Clin Oncol*. 2007 Dec 20;25(36):5704-9.
20. Lobo KK, Gross AS, Williams KM, Liauw WS, Day RO, Blievernicht JK, et al. Cytochrome P450 2B6 activity as measured by bupropion hydroxylation: effect of induction by rifampin and ethnicity. *Clin Pharmacol Ther*. 2006 Jul;80(1):75-84.
21. de Souza PL, Liauw W, Links M, Pirabhahar S, Kelly G, Howes LG. Phase I and pharmacokinetic study of weekly NV06 (Phenoxodiol), a novel isoflav-3-ene, in

- patients with advanced cancer. *Cancer Chemother Pharmacol*. 2006 Oct;58(4):427-33.
22. Liauw W, Segelov E, Lih A, Dunleavy R, Links M, Ward R. Off-trial evaluation of bisphosphonates in patients with metastatic breast cancer. *BMC Cancer*. 2005;5:89.
 23. Jiang X, Williams KM, Liauw WS, Ammit AJ, Roufogalis BD, Duke CC, et al. Effect of ginkgo and ginger on the pharmacokinetics and pharmacodynamics of warfarin in healthy subjects. *Br J Clin Pharmacol*. 2005 Apr;59(4):425-32.
 24. Hall WD, Ward R, Liauw WS, Lu CY, Brien JA. Tailoring access to high cost, genetically targeted drugs. *Med J Aust*. 2005 Jun 20;182(12):607-8.
 25. Pett SL, Williams LA, Day RO, Lloyd AR, Carr AD, Clezy KR, et al. A phase I study of the pharmacokinetics and safety of passive immunotherapy with caprine anti-HIV antibodies, (PE)HRG214, in HIV-1-infected individuals. *HIV Clin Trials*. 2004 Mar-Apr;5(2):91-8.
 26. Lomas M, Liauw W, Packham D, Williams K, Kelleher A, Zaunders J, et al. Phase I clinical trial of a human idiotypic p53 vaccine in patients with advanced malignancy. *Ann Oncol*. 2004 Feb;15(2):324-9.
 27. Jiang X, Williams KM, Liauw WS, Ammit AJ, Roufogalis BD, Duke CC, et al. Effect of St John's wort and ginseng on the pharmacokinetics and pharmacodynamics of warfarin in healthy subjects. *Br J Clin Pharmacol*. 2004 May;57(5):592-9.
 28. Liauw WS, Day RO. Adverse event reporting in clinical trials: room for improvement. *Med J Aust*. 2003 Oct 20;179(8):426-8.

Publications in Press or Submitted

Submitted R.O. Day, W.Liauw, L.M.R Tozer, P McElduff, R.J. Beckett, K.M.Williams
A double-blind, placebo-controlled study of the effects of alkaline magnesium bicarbonate solutions on acid/base balance, bone metabolism and cardiovascular risk factors in postmenopausal women. *Biomed Central Public Health Journal*

Submitted Kathryn Brooke, Steven Faux, Stephen Wilson, Winston Liauw, Malcolm Bowman. Outcomes of Motor Vehicle Crashes with Fracture: Early rehabilitation benefits. *Journal of Trauma, Injury and Infection*.

In Press Radioembolization with Yttrium Microspheres for Neuroendocrine Tumour Liver Metastases. *British Journal of Surgery. Cancer*

In Press Intra-arterial Iodine-131-Lipiodol for Unresectable Hepatocellular Carcinoma

Submitted: Influence of Modern Systemic Therapies as Adjunct to Multimodality Therapy in Patients with Colorectal Peritoneal Carcinomatosis: A Retrospective Multicentre Study. *Cancer*

In Press Surgical Therapies in Metastatic Colorectal Cancer with a Potential for Cure. *American Journal of Clinical Oncology*

In Press Pharmacokinetic and pharmacodynamic interactions of echinacea and policosanol with warfarin in healthy subjects. *British Journal of Clinical Pharmacology*

Submitted Saxena, A., Chua, T.C., Sarkar, A., Chu, F., Liauw, W., Zhao, J., Morris, D.L. Progression and Survival Results following Radical Hepatic Metastasectomy of Advanced Neuroendocrine Tumor Supports an Aggressive Surgical Approach: Experience from an Australian Hepatobiliary Unit

Submitted Kieran F. Scott, PhD; Mila Sajinovic; Julianne Hein; Sheri Nixdorf ; Peter

Galettis; Winston Liauw; Paul de Souza; Qihan Dong; Garry G Graham; Pamela J Russell
Emerging Roles for Phospholipase A2 Enzymes in Cancer Biochimie

Industry Journal

Liauw W, Day RO, Williams K. Critical appraisal of clinical trial protocols from the perspective of clinical study sites. Applied Clinical Trials 2004 Sept: 34-42.

Book Chapter

Non-Resectional Treatment of Colorectal Cancer Metastases David L. Morris, Ian Finlay, Sivakumar Gananadha and Winston Liauw. In Surgical Management of Hepatobiliary and Pancreatic Disorders Edited by: Graeme J. Poston, Leslie H. Blumgart. Martin Dunitz, 2001.

UNESCO Encyclopedia of Life Support Systems Chapter E6-81-05-00 Clinical Pharmacology (published online)

Web-based publication

Patient education: Breast cancer module Climate TV: <http://www.climate.tv>

<http://www.openforum.com.au/content/clinical-trials-can-be-people-and-country>

Blog: <http://winstonliauw.posterous.com>

Letters

<http://bmj.bmjournals.com/cgi/eletters/330/7494/769#104915>

Acknowledged Collaborator

Chang D, Merrett N, Biankin A, NSW Pancreatic Cancer Network. Improving Outcomes for operable pancreatic cancer: is access to safer surgery the problem? J Gastroenterol Hepatol. 2008 Jul; 23(7 Pt 1):1036-45.

Improving the Quality Use of Medicines in Australia: Realising the Potential of Pharmacogenomics, Deloitte Economics for Australian Centre for Health Research, October 2008

Abstracts not included in this CV for purpose of brevity

Teaching

2001	Organiser Advanced Trainees Journal Club
2003	Tutorials for Schering-Plough and Pierre Fabre Medicament Australia employees on various aspects of oncology
2002-2005	In-house training Clinical Trials Centre, St Vincent's Hospital
2004-2005	Meeting Chairperson – ARCS Seminars. Continuing education program for pharmaceutical industry.
2004-2006	St Vincent's Hospital Clinical Research and Clinical Trials Training Day (convener/organizer).
2005 - present	In-service tutorials for nursing and other medical staff
2005 - present	Tutorials UNSW Medical Students
2005 - present	Medical Oncology Representative, Basic Sciences of Oncology Program, Cancer Institute NSW. Lecturer.
2005-2008	Invited lecturer UNSW Commercial Biotechnology Program (Introduction to Clinical Trials)

2006 - present	Cancer Care Centre St George Hospital online education program (see grants)
2006 - present	Department of Health Ethics Branch Training Day for new laypersons on HREC, Master of Ceremonies in 2009
2008	Invited speaker NHMRC Clinical Trials Centre Clinical Trials Course: Phase I, II and Feasibility Studies
2009 - present	Advanced trainee supervisor, Medical Oncology, St George Hospital. Attended Supervisor Workshop 2009 at COSA.
2009	RACP Examiner

Meetings Attended

American Society of Clinical Oncology (ASCO) Meeting, San Francisco, May 2001
 Medical Oncology Group of Australia (MOGA) Annual Meeting August 2001 (Oral Presentation)
 ASCO Meeting, Orlando, May 2002
 ASCO Meeting, Chicago 2003
 MOGA Annual Meeting August 2003
 ASCO Meeting, New Orleans, 2004.
 World Congress on Gastrointestinal Cancer, Barcelona, 2005
 ARCS Sydney 2006
 AGITG Annual Meeting, Melbourne, 2007
 ASCEPT Annual Meeting, Adelaide, 2007
 World Congress on Gastrointestinal Cancer, Barcelona, 2008
 Neuroendocrine Tumour Workshop, Melbourne, 2008
 International Liver Cancer Association, Chicago 2008
 6th International Workshop on Peritoneal Surface Malignancy, Lyon, 2008
 European Neuroendocrine Society, Granada 2009
 International Liver Cancer Association, Milan, 2009 (Oral Presentation)
 ESMO/ECCO Joint Meeting, Berlin 2009
 Inaugural Whole Person Conference, Bondi, 2009 (Oral Presentation)

Professional Associations / Memberships

Member of American Society of Clinical Oncology ASCO (Current)
 Medical Oncology Group of Australia MOGA (Current)
 Clinical Oncological Society of Australasia COSA (Current)
 Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists, ASCEPT(Current)
 Australian Pharmaceutical Physicians Association, APPA (expired)
 Consortium for Rational Cancer Therapeutics, CRCT (group expired)

Committees

2002 to present	Drug Usage Sub-committee Medical Oncology Group of Australia
2003 to present	Core Committee NSW Shared Scientific Assessment Scheme
2003-2004	St Vincent's Hospital Human Research Ethics Committee (HREC)
2004-2007	Cancer Institute Ethics Committee (Deputy Chair),
2004-2007	St Vincent's Hospital Drug Committee
2004 - 2008	2004 External Reviewer for St George HREC
2004 - present	External review Royal Prince Alfred Hospital HREC
2005 - 2006	Reference groups for Centralized Ethical Review for Cancer Institute NSW and NSW Department of Health
2005 - present	Clinical Pharmacology Representative National Prescribing Service Pharmaceutical Decision Support Working Group
2005 - present	Medical Oncology Representative Basic Sciences of Oncology Program, Cancer Institute NSW
2005 - 2009	SESIAHS Clinical Cancer Registry Steering Committee
2006 - 2008	Ex-officio Member St George HREC
2006 - present	Cancer Institute NSW Oncology Group – Upper Gastrointestinal Cancer
2006 - present:	2006 to present: Aria Implementation Committee SESIAHS Central Network Cancer Services, Clinical Team Leader
2006 - 2008	RACP Adult Division Medical Council (ADMC)
2007 - present	St George Hospital Drug Committee Member (Clinical Pharmacologist)
2007 - present	Cancer Institute NSW Oncology Group – Upper Gastrointestinal Cancer – Hepatic Sub-committee
2007 - 2008	Chairperson, Data Safety Monitoring Board, Intraperitoneal Albendazole Phase 1 Study (MRC Biotech)
2007 - 2008	National Pharmacogenetics Working Group, convened by Global Access Partners
2008 - present	Chairperson St George Human Research Ethics Committee
2008 - present	SESIAHS Area Drug Committee Member
2008 - present	St George Medical Research Foundation Advisory Committee
2009	Medicines Australia Monitoring Committee
2009 - present	Cancer Institute Ethics Committee (Clinical Research) – appointed Chair October 2009
2009 - present	Cancer Institute NSW Skilled Cancer Professionals Advisory Committee

Consultancies & advisory boards

2002 - 2003	Pierre Fabre Medicament Australia – medical information, clinical trials, and staff education.
2002	Australian Native Foods – Consultancy concerning naturally derived pharmaceutical.
2003 - 2005	G2 Limited – Clinical Advisory Board
2003	Drug Information Association – Review of DIA Clinical Investigator Accreditation Program
2003	UNISEARCH (UNSW) – Preparation of pre-clinical and clinical development plan for small molecule pharmaceutical
2004	Visiting (On-call) Specialist – James Lance GlaxoSmithKline Medicines Research Unit, Prince of Wales Hospital
2005	UGP Pty Ltd, Biotech Group Pty Ltd
2007 - 2008	External Consultant to Canopus concerning oltipraz randomised phase II trial on behalf of CRCT
2008	Primovax Advisory Board
2008	Novotech, Phase 1 Study DSMB Member
2008 – present	St George Medical Research Foundation Scientific Advisory Committee
2010 - present	COSA Neuroendocrine Scientific Advisory Committee

Fundraising

2003 - 2005	participation in Fundraising activities for the Molecular and Cellular Oncology Group/Haematology – Oncology Research Group
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Awards

2001	New South Wales Co-operative Oncology Group Travel Grant: provided assistance to attend American Society of Clinical Oncology Meeting, 2001.
2001	Medical Oncology Group of Australia/Amgen (Neupogen) Award for best presentation/poster at MOG Annual Meeting, August 2001. For poster entitled 'An alternative measure of clinical benefit in women undergoing hormonal or cytotoxic chemotherapy for metastatic breast cancer.' Provides travel assistance to attend American Society of Clinical Oncology Meeting, 2002.

Grants & Funding

2006 – 2007 Pfizer	Bioassay for fluconazole with A/Prof Debbie Marriott	\$30,000
2007 – 2009 Cancer Council NSW	Dr Kiern Scott Chief Investigator. WL Associate Investigator: Secreted Phospholipase A2 in Prostate Cancer	\$300,000

2007 Sirtex Ltd	Prospective SIR-Spheres Database	\$15,000
2007 - 2008 Cancer Institute NSW	Cancer Institute NSW Innovation Grant	\$80,000
2006 – 2010 Cancer Institute NSW	Aria Implementation – establishment of electronic medical record system within SESIAHS Central Network. Funded by Cancer Institute NSW	\$80,000
2009 St George Medical Research Foundation	Development of assay for inhibitors of sPLA2	\$20,000
2010 – 2012 Prostate Cancer Foundation of Australia (granted pending final confirmation)	Development of sPLA2 inhibitors: towards phase 1 studies.	\$450,000

Business Interests

2006 to present	Co-owner the Magic Roundabout, 132 Percival Road Stanmore NSW, 2048. Recycled and new children's wear and furniture. www.magicroundabout.com.au
2009 to present	MOU with Turtlelane Studios to Develop Personal Electronic Medical Record

Private Interests

Art Collecting - Member Powerhouse Museum and Art Gallery NSW
 Music 20th Century Avant Garde Classical and Jazz. Plays Saxophone
 Non-fiction literature including political and medical history.
 Cycling