

DIVISION OF HEALTH SCIENCES
RESEARCH REPORT 2002-2006



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DIVISION OF HEALTH SCIENCES



FROM THE PROVINCE CHANCELLOR

It is with great pleasure that I present this report on the research activities of the Division of Health Sciences at the University of Otago, for the period 2002–2006.

The quest for excellence in research has been a hallmark of the University of Otago since its inception. Correspondingly, the quest for internationally recognised research excellence underpins all of the research activities within the Division of Health Sciences. The Division is in an enviable position in terms of its research environment. Undeniably, much of the Division's research edge comes from the close synergy between areas as diverse as Biochemistry, Microbiology, Immunology, Human Nutrition, Physiology, Anatomy, Genetics, Chemistry, Pharmacology, and the wide range of departments in the clinical areas of Medicine, Dentistry, Pharmacy and Physiotherapy. This means that students at the University of Otago are taught by academics and clinicians who are at the forefront of new knowledge. Research students can expect to be trained by people who are themselves passionate researchers, and to have access to the latest equipment and technologies.

It is the intention of this Report to provide local, national and international researchers and clinicians with a comprehensive insight into what is happening at the forefront of health science research at Otago. The Report spans five years of research activity and as such allows for an examination of trends over successive years. The Report reveals that research endeavours within the Division have gone from strength to strength during this time period.

The Division continues to be highly successful in securing research funding in what has become an intensely competitive environment. In 2006 alone the Division attracted over \$49 million of external funding, and more than 1200 scientific publications were produced during the same period. There has never been a more productive postgraduate population, with many departments registering increases in numbers of Masters and Doctoral students. These are tangible measures of research success. Others include the attraction and retention of quality staff and the number of prestigious prizes and scholarships awarded to a given department. This Report provides a summary of these research outputs for each of the departments within the Division.

There are also other indicators of research success that are more difficult to quantify. One of these is collaborations between like-minded researchers, through the formation of research groupings spanning diverse disciplines. This Report also provides an outline of the activities of some of the larger research groups and units within the Division. The Division is privileged to host a number of prestigious research groups, examples are the Cancer Genetics Laboratory, the Centre for Neuroendocrinology, the Christchurch Cardioendocrine Research Group, the Virus Research Unit, the Injury Prevention Research Unit (IPRU) and the Dunedin Multidisciplinary Health and Development Research Unit (DMHDRU).

An important consideration is determining whether our communities receive value for money from research investments. Benefits to the community in terms of improvements in health are important outcomes. Ground breaking discoveries within the Division have contributed to advances in a number of fields including human genetics (particularly cancer genetics), neural function and the neurosciences, infectious diseases, reproductive biology, cardioendocrinology, personalised medicine, public health and structural biology. Strong interactions with the biotechnology industry, both nationally and internationally, mean that Otago's Health Sciences researchers are contributing to the advancement of knowledge in medical science for the benefit of all New Zealanders, as well as the rest of the world. Translation of research from the bench to the clinic, leading to improvements in the quality of life of those in our community, is the ultimate goal of the Division of Health Sciences.

We hope you enjoy reviewing the research activities of the Division of Health Sciences. We will continue to build on our research successes in 2007 and beyond.

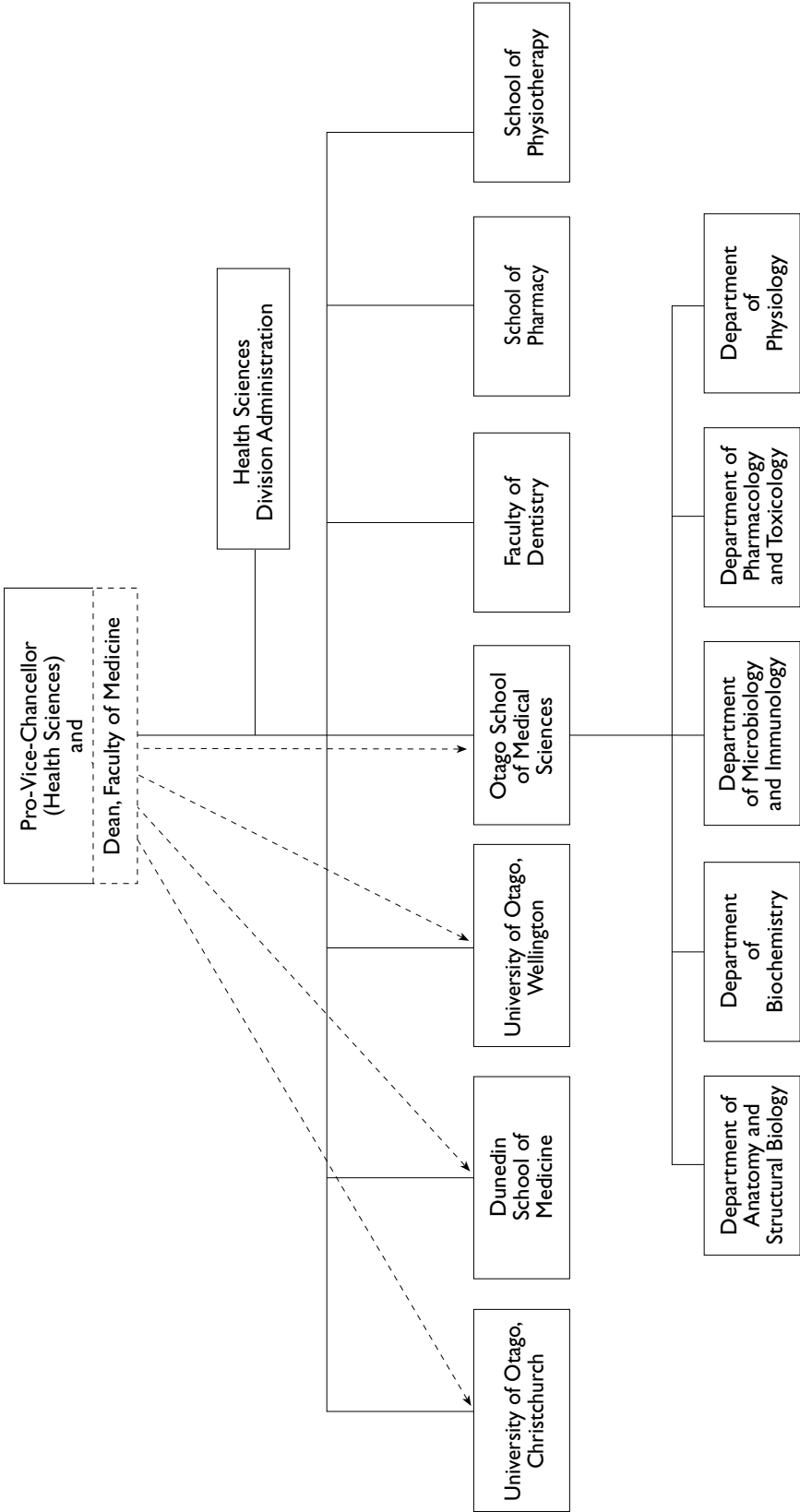
Don Robertson

Pro Vice Chancellor Health Sciences

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Division of Health Sciences Organisation Structure



RESEARCH THEMES AND CENTRES

Research Themes and Centres are areas of research and/or collaborative groups of researchers in which Otago University is pre-eminent and to which it gives particular recognition and support. Researchers within the Division of Health Sciences are leaders of a significant number of the University's Research Themes and Centres. Details are given below. Further information relating to the research grants and publications of specific researchers can be found in this report under a given researcher's home department.

RESEARCH THEMES

Formulation and Drug Delivery

Director: Professor Ian Tucker; (School of Pharmacy)

Bioactive materials such as drugs, vaccine antigens, pesticides and nutrients cannot be administered in pure form but must be incorporated into biocompatible formulations which maintain the stability of the bioactive material and deliver it in a suitable way to achieve optimal beneficial effects while minimising unwanted side effects. Thus, the science of formulation and drug delivery has human, veterinary and agricultural applications. It combines physical chemistry, biology and materials science to investigate physico-chemical properties of bioactives, excipients and formulations and behaviours of bioactives and formulations in the biological environment in order to develop an underpinning science. This science is the basis for design and manufacture of delivery systems with predictable behaviours.

Areas of particular research focus include: studies on the chemical stability of drugs in formulations; physical stability in formulations; neural networks and fuzzy logic to facilitate formulation; controlled release devices to deliver antibacterial agents to specific regions of the mouth; single-shot vaccines for veterinary use; delivery of poisons or vaccines to possums for control of Tb; absorption of drugs from the intestine of surgical patients; delivery of peptide drugs orally; microencapsulation technologies. These projects have fundamental, applied and developmental aspects.

<http://pharmacy.otago.ac.nz/pages/research.html>

Functional Genomics, Gene Expression and Proteomics

Directors: Professors Warren Tate, Kevin Farnden, and Associate Professor John Cutfield: Department of Biochemistry, (Otago School of Medical Sciences)

The era of automated DNA sequencing and genome databases (genomics) has arrived and with it have come new methods for identifying particular genes and their protein products (proteomics). It is the expression of a set of genes in a particular cell type which defines the function of that cell. The pattern of gene expression can change, for example during development, or as a result of mutation or disease, so that analysis of altered expression profiles provides fundamental information on basic biological processes. However, understanding how such changes come about requires knowledge of factors that control gene expression as well as the functions of the individual protein products. Assigning function to an unknown protein depends on knowing its precise composition and 3-dimensional structure, as well as its interaction partner. Functional proteomics leads in turn to a deeper understanding of physiological processes.

Such genome to proteome studies rely on some sophisticated technology (most of which is now in place on this campus, or soon will be) that can be applied to the study of any tissue or organism. The equipment includes a gene microarray facility, laser capture microscope, LC-mass spectrometer and limited X-ray diffraction equipment, all of which have received support from the University. Underpinning the operations is the use of advanced methods in computational biology (bioinformatics). A number of proven investigators are embracing these new technologies with the common goal of understanding or manipulating gene expression. In addition to using common methodologies, members of this theme share a similar intellectual approach to the analysis of genes and proteins, irrespective of the great diversity of organisms under study. Current research interests are many and varied. Details can be found at:

<http://biochem.otago.ac.nz/FGGEPtheme/home.html>

Immunological Basis of Disease and Protective (Immunet)

Directors: Associate Professors Glenn Buchan, Margaret Baird: Department of Microbiology & Immunology, (Otago School of Medical Sciences)

An understanding of the immune response underpins our understanding of infectious and autoimmune diseases. Cures for these diseases, as well as cancer and asthma, require knowledge of the immune response and how it can be manipulated. Basic and applied research is essential for the health of both people and economically important livestock.

Nine research groups, comprising more than 40 senior researchers, are working on research projects that can be grouped under this theme. The theme has also recently expanded to include immunologists in Crown Research Institutes and industry. This grouping has been renamed Immunet, and it aims to foster immunological research and the training of immunologists in New Zealand. Researchers involved with this theme have achieved international eminence and attract over \$3 million in funding per annum.

Research focuses on the development of improved vaccines against cancer and infectious diseases such as meningitis and tuberculosis. It also seeks to understand the immunology and infectious basis of autoimmune diseases, control of adhesion molecules in inflammatory diseases, and the role of the immune system in asthma.

<http://immunet.otago.ac.nz/>

Oral Microbiology and Dental Health

Director: Dr Geoffrey Tompkins: Department of Oral Sciences, (School of Dentistry)

Oral microbes cause discomfort, distress, or disease in a large proportion of the population. For example, 'tooth decay', which is caused by the bacteria present in dental plaque, is one of the most common human diseases. It is painful and it is costly to treat. Other microorganisms, such as periodontal pathogens and the yeast *Candida albicans*, are also present in the mouth and can give rise to oral diseases.

This theme comprises a number of pre-eminent research groups investigating various aspects of oral microbiology and dental health. These groups come from a variety of backgrounds including: the Faculty of Dentistry; the Department of Microbiology & Immunology, (Otago School of Medical Sciences); the Department of Pathology and Molecular Medicine (Otago University, Wellington) and the New Zealand Dental Association.

Research carried out by members of the Oral Microbiology and Dental Health research theme covers a broad and cross-disciplinary range of topics. Research focuses on the study of the microorganisms responsible for a range of oral diseases, understanding how these diseases are caused, and devising strategies to prevent them. Specific areas of study include: oral biofilms, plaque mineralisation, microbial adhesion, drug resistance, designer antimicrobials, bacteriocins, dental epidemiology, forensic dentistry, mining microbial genomes, and iron acquisition.

<http://dentistry.otago.ac.nz/research/oralmicro/index.html>

Oxidative Stress in Health and Disease

Director: Professor Christine Winterbourn: Department of Pathology, University of Otago Christchurch

Oxidative stress occurs when the production of damaging free radicals and other oxidative molecules exceeds the capacity of the body's antioxidant defences to detoxify them. Oxidants also play an important positive role in the immune system. We live in an oxygen-rich environment and use oxygen to extract energy from food. As a corollary of this, oxygen radicals are released. The production and control of reactive oxidants, therefore, are integral life processes. However, these can be disrupted and oxidative stress contributes to many diseases including inflammation, autoimmune diseases, cancer, neurodegenerative diseases, heart attack and stroke. The general objective of the theme is to understand the specific mechanisms of oxidative injury in these conditions and determine whether antioxidant intervention is protective.

Members of the theme are drawn from at least seven different departments, spread across three campuses, and include biochemists, clinicians and nutritionists.

Current projects include: mechanisms of antioxidant defence; oxidative stress in premature infants; oxidative stress in asthma; nutritional antioxidants; oxidative mechanisms of neurodegeneration, nitric oxide and mitochondrial function; oxidative damage and kidney disease; glucose transport; markers of neutrophil oxidation in inflammation; and redox regulation of gene expression and cell signalling.

http://www.otago.ac.nz/research/themes/theme_oxidative.html

Memory: Mechanisms, Processes and Applications

Directors: Associate Professor David Bilkey, Dr Anthony Robins: Department of Psychology, University of Otago

Although this theme is not led by a member of the Health Sciences Division, Divisional staff have significant input into it. Please refer to the following website for further information:

<http://psy.otago.ac.nz/memory/>

Rehabilitation and Disability

Director: Professor David Baxter: School of Physiotherapy

The Rehabilitation and Disability Research Theme represents a collaborative effort by researchers from diverse backgrounds to conduct high quality research that will enhance the effectiveness of rehabilitative care and optimise quality of life for people with injury and disabilities, including those musculoskeletal, neurological, and chronic health conditions that may lead to impairment and/or disability.

Research is being undertaken that will improve the quality, effectiveness, and cost-effectiveness of patient care and outcomes. This includes investigations focusing on the prevention, reduction and resolution of disability, as well as quality of life for those affected by injury or disability, and the quality of life of their families and carers. The Rehabilitation and Disability Research Theme provides research training in a variety of specialties, including rehabilitation, neuroscience, neuropsychology, biomechanics, health care outcomes, rehabilitation engineering, and other related fields.

Due to the wide scope of members' specialties from clinicians to academics, doctors, physiotherapists and health practitioners, qualitative to quantitative researchers, we believe that a wealth of knowledge, understanding and ideas will be generated through the current collaborations.

<http://physio.otago.ac.nz/res/centre.asp>

The Kidney in Health and Disease

Directors: Professor Rob Walker: Department of Medical and Surgical Sciences, (Dunedin School of Medicine), Professor Zoltan Endre: Department of Medicine (Otago University, Christchurch).

This theme involves approximately 20 researchers from the University's clinical medical schools in Christchurch and Dunedin and from departments in the wider University. The latter include the Department of Physiology and the Schools of Pharmacy and Physical Education. Strong links have been established between the researchers and District Health Boards, and with other research institutions nationally and internationally.

The Group is dedicated to investigating innovative ways to prevent and treat kidney disease. The group's expertise ranges from molecular and cellular-level investigations of kidney function, to applying therapies to prevent kidney injury or the progression of kidney disease. Research is aimed at better understanding the mechanisms of insult to the kidney, so as to allow earlier detection and better treatment. Efforts are underway to find new markers for early acute renal failure so it can be treated before irreversible damage or death occurs. Current research projects include: effects of lithium on renal function, therapeutic targets of polycystic liver disease, dietary induced obesity and metabolic syndrome, clinical renal trials, renal function and high performance exercise, and progression of renal disease.

<http://kidney.otago.ac.nz/>

Virology

Directors: Associate Professor Vernon Ward and Professor Andrew Mercer: Department of Microbiology & Immunology, (Otago School of Medical Sciences)

The Virology research team at the University comprises several interconnected groups located in the Divisions of Sciences and Health Sciences, and spread across the Dunedin, Christchurch and Wellington campuses. Together members of the team have expertise in all areas of virology.

Current research activities encompass multiple projects in the areas of: viruses and cancer; viruses and immunity; human and animal health virology; invertebrate virology; viral infections and diagnosis; vector-borne diseases; plant virology; and human respiratory disease and hepatitis.

The group has an exceptionally strong track record of publications, and collaborates internationally with research institutes in Germany, the United Kingdom, the USA, Australia, Finland and Israel. Theme participants have won in excess of \$6 million in research funding from national and international sources in the last five years.

<http://virology.otago.ac.nz/>

RESEARCH CENTRES

Brain Health and Repair Research Centre

Director: Professor Cliff Abraham: Department of Psychology, University of Otago

Although this Centre is not led by a member of the Health Sciences Division, Divisional staff have significant input into the Centre. Please refer to the following website for further information:

<http://psy.otago.ac.nz/staff/abraham.html>

CardioEndocrine Research Group

Director: Professor Mark Richards: Department of Medicine, Otago University Christchurch

Regulation of the consistency of the circulation (pressure and volume) and the heart's pumping efficiency are crucial to health and normal organ function. Hormones play a major role in regulating the fluid compartments of the body, blood pressure and the heart's pumping action. Cardiovascular endocrinology is the science linking these interlocking hormone systems with the functional state of the heart and circulation. The current focus of theme research is the role played by hormones secreted by the heart (cardiac natriuretic peptides) and how these hormones interact with other hormone systems and local tissue factors in maintaining circulatory homeostasis both in health and after acute or chronic cardiac injury.

Centre members have won funding from the Health Research Council, the National Heart Foundation, and the Canterbury Medical Research Foundation.

Current projects encompass: natriuretic peptides in diagnosis, prognosis and management of heart failure; bioactivity metabolism and tissue interaction among natriuretic peptides; neurohormonal intervention in acute and chronic cardiac injury; molecular biology of natriuretic peptides; adrenomedullin's role and regulation in circulatory disorders.

<http://www.chmeds.ac.nz/research/cardioen/>

Centre for Reproduction and Genomics

The University of Otago and AgResearch Limited, two of New Zealand's largest research institutions, have established a joint Centre for Reproduction and Genomics. The Centre includes the endowed AgResearch Chair in Reproduction and Genomics, for which an international search is underway. As part of the agreement the two institutions have established a joint fund for collaborative research of \$1.5 million over three years. AgResearch and the University have a long history of collaboration – and are currently jointly involved in approximately 70 research projects.

The Centre will foster a number of research interests including viral pathology, pre-implantation embryology, male reproductive biology, ovulation, fecundity genes, and bioinformatics.

Centre for Urban Health and Development (CUHAD)

Director: Professor Philippa Howden-Chapman: Department of Public Health, Otago University Wellington.

The CUHAD is a newly developed University of Otago Research Centre which carries out pioneering collaborative research that contributes to the health and balanced development of New Zealand cities. With over 85% of our population living in urban environments, we face a challenge to keep our cities sustainable and attractive internationally, and the people within them healthy and socially connected. As our cities develop, we need to work to maintain their quality so that we can attract the innovative start-ups and the participants in the knowledge society as well as meet the needs of less advantaged residents.

CUHAD arises from long-term collaborations and strong international linkages. It focuses on housing, transport, energy and social infrastructure in six urban areas. It includes analysis of carbon emissions, energy use, internal and external air quality, health drivers such as levels of physical activity and social cohesion, and health outcomes such as our internationally high rates of respiratory illness.

Research carried out at the CUHAD influences the way our growing cities develop, how we transform our infrastructure as the economy develops, and the way we modify our largest urban environment, Auckland.

Centre for Translational Cancer Research (CTCR)

Director: Professor Anthony Reeve: Department of Biochemistry, Otago School of Medical Sciences

We know that drugs precisely delivered to molecular targets on the cancer cell can save lives, that early detection provides the simplest path to patient survival, that the body's own immune system can be manipulated to eliminate disease, and that, with the right diagnostic tools, conventional cancer treatment can be individualised to radically improve the outcome for the patient.

However, the incremental gains made in the research laboratory all too rarely reach the hospital oncology wards.

This new Centre brings together scientists and clinicians from across New Zealand, enhanced by significant collaborations with elite international cancer groups. The Centre will provide unique training opportunities for young scientists and clinicians, and provide them with national and international networks which will support them through a life of research and clinical practice. This highly coordinated, multidisciplinary team will develop an integrated strategic research and clinical programme to convert ground-breaking research into nationwide improvements in the diagnosis, management and treatment of New Zealand's most pressing cancer problems, in particular, melanoma, colorectal and gastric cancer

Centre for Translational Research in Chronic Diseases: Obesity

Director: Professor Jim Mann: Department of Medical and Surgical Sciences, Dunedin School of Medicine

This Centre examines chronic diseases through the process of translational research. The initial focus is on obesity, the leading cause of many chronic diseases in New Zealand and overseas.

The Centre unites multidisciplinary research groupings, including researchers of international standing from five New Zealand universities, to identify needs and provide effective, socially inclusive and sustainable solutions for evidence-based management and public policies. These research groups drive the process of translational research, establishing research questions and new prediction tools from observational research, to address basic science mechanisms in the inter-regulation of eating and physical activity, through clinical trials (Phase-1 translation), controlled family- and community- interventions and then population-directed policy measures (Phase-2 translation) which need to be made sustainable by research into continuous improvement methods (Phase-3 translation).

The Centre will adapt WHO Guidelines and nurture new research capacity to integrate (1) promotion of healthful behaviours with (2) evidence-based public-policy approaches to create supportive physical, educational, fiscal and food environments, and (3) improved clinical responses to the existing burden of obesity-related ill-health.

Mental Health and Addiction Research Centre (MHARC)

Director: Professor Peter Joyce: Department of Psychological Medicine, University of Otago Christchurch

Mental disorders, such as depression, bipolar disorder, anxiety and eating disorders and alcohol and drug addictions are major contributors to the burden of disease for young New Zealanders and their families. The Mental Health and Addiction Research Centre (MHARC) undertakes research into the causes and treatments of these disorders. MHARC brings together the Mental Health Clinical Research Unit (Director: Professor Peter Joyce), the National Addiction Centre (Director: Professor Doug Sellman), and the Gene Structure and Function Laboratory (Director: Associate Professor Martin Kennedy). Two University of Otago Leading Thinker projects are included with MHARC - The Carney Centre for Pharmacogenomics, and the Gama Bipolar Fellowship. The major current funder is the Health Research Council of New Zealand via a Programme Grant and Project Grants.

National Centre for Lifecourse Research

Director: Associate Professor Richie Poulton: Department of Preventive and Social Medicine, Dunedin School of Medicine

The National Centre for Lifecourse Research is a newly developed University of Otago Centre. The Centre aims to become the world's most comprehensive source of information about family relationships, human development, and adaptation, from cradle to grave, by repeatedly measuring *New Zealand families across multiple generations*. The Centre promotes innovative approaches such as prospective-longitudinal studies of intra-individual change and pathways to opportunity; new multigenerational-transmission studies of risk and resilience across three generations of New Zealand families; intervention studies with at-risk individuals and families, and Pacific-region longitudinal-migratory studies.

The Centre provides a 'one-stop shop' for knowledge about the human condition, from birth through old age, via *multidisciplinary, multigenerational research*. It will study a broad range of positive and problematic outcomes, spanning: chronic physical disease (e.g., cardiovascular disease, emphysema); disease risk factors (e.g., obesity); mental health problems (e.g., depression, schizophrenia, suicidality); criminality and pro-social behaviour; health-promoting and health-risk behaviours (e.g., diet, sedentary behaviour); sexual and reproductive behaviour; educational achievement and employability; optimal cognitive development; social relationships (ranging from close personal relationships to engagement with civic institutions); parenting; cultural/national identity, and the ageing process.

<http://dunedinstudy.otago.ac.nz/CoRE.html>

Neuroendocrinology Research Centre

Directors: Professor Allan Herbison: Department of Physiology, Otago School of Medical Sciences, Associate Professor Dave Grattan: Department of Anatomy and Structural Biology, Otago School of Medical Sciences

The Centre for Neuroendocrinology brings together eight laboratories investigating the neural regulation of fertility, fluid volume homeostasis, catecholamine secretion, and adaptations of the maternal brain. These laboratories have their bases in the Departments of Physiology, Anatomy and Structural Biology and Obstetrics and Gynaecology at Otago University, Christchurch.

Current research focuses on the following topics: neuroprotective actions of estrogen; effects of estrogen on cholinergic and GnRH neurons; nutritional factors regulating fertility; role of RFamide-related peptide in mammalian reproduction; tyrosine hydroxylase activity in the brain; regulation of catecholamine release from the adrenal medulla; oxytocin and vasopressin neurons; peptidergic regulation of LH and FSH release from the anterior pituitary gland; neuroendocrine regulation of prolactin secretion; regulation of body weight during pregnancy; neuroendocrine adaptations of the maternal brain during pregnancy and lactation; biological basis of pulsatility in GnRH neurons; mechanisms of gonadal steroid feedback upon GnRH neurons; regulation of GnRH neuron migration during embryogenesis; outgrowth and guidance of axons from GnRH neurons; and differentiation of neuroendocrine neurons.

<http://www.otago.ac.nz/neuroendocrinology/>

Webster Centre for Infectious Diseases

Director: Professor Kurt Krause: Department of Biochemistry, Otago School of Medical Sciences

A worldwide resurgence in infectious diseases that has created an environment in which new and emerging pathogens such as bird flu are assuming prominence and pose a threat to people and native and domestic animals. There is a significant void in New Zealand's front line of defence against infectious disease due to a reliance on acquiring therapies offshore. To address this issue, the Centre is bringing together a community of scientists with the expertise to develop new therapies against infectious diseases and rapidly respond to the threat of new pathogens. Research in the Centre is interdisciplinary involving biochemists and chemists, in collaboration with pharmacologists, microbiologists, immunologists, epidemiologists and clinicians.

http://www.otago.ac.nz/research/centres/res_cen_webster.html

FACULTY OF DENTISTRY

The Faculty of Dentistry was founded in 1907, and is the only Faculty and School of Dentistry in New Zealand. It forms an integral part of the Division of Health Sciences. The Faculty consists of three Departments – the Department of Oral Diagnostic and Surgical Sciences, the Department of Oral Sciences and the Department of Oral Rehabilitation.

Research in the Faculty of Dentistry underpins the teaching of dentistry, its clinical practice, and the identification of oral health-related problems. Researchers in the Faculty are committed to the systematic development of new knowledge of oral science and how best to improve the oral health of the general public.



Professor Greg Seymour; Dean of the Dental School has a full research programme

SIR JOHN WALSH RESEARCH INSTITUTE

In 2006, funding provided by the University led to the establishment of the Sir John Walsh Research Institute within the Faculty. It is named after a former Dean of the Faculty of Dentistry, who's appointment in 1946 advanced dentistry on many levels. By actively reaching out to all interested groups (including Faculty, students, the dental profession and the wider community), the Institute will serve as a focus and advocate for oral health research that will instil a research ethos throughout New Zealand. The Institute aims to obtain a sustainable balance between basic, translational, practice-based and public health research.

DEPARTMENT OF ORAL DIAGNOSTIC AND SURGICAL SCIENCES

The Department of Oral Diagnostic and Surgical Sciences is organised into the disciplines of Oral and Maxillofacial Surgery, Oral Medicine, Oral Radiography, Oral Pathology, Special Needs Dentistry, Clinical Pharmacology and Sedation, and General Dental Practice. The main areas of research in the department are:

- oral diseases and healing with particular interest in human and experimental epithelial hyperplasia, preneoplasia and neoplasia
- basic and clinical research into salivary disease
- endodontic microbiology and the molecular mechanisms involved in bacterial invasion of dentine
- the development of endodontic medicaments for root canal disinfection and their effects on bacteria and tissues culture
- clinical research in endodontics, dental implantology, oral and maxillofacial surgery, trauma, and prosthodontics.

<http://dentistry.otago.ac.nz/departments/odss.html>

Staff

Professor Robert Love	Professor and Head of Department
A/P John Broughton	Associate Professor
A/P Alison Rich	Associate Professor
Mr Norman Firth	Senior Lecturer
Mr Rohana Kumara	Senior Lecturer
Mr Dusan Kuzmanovic	Senior Lecturer
Miss Eithne MacFadyen	Senior Lecturer
Mr Darryl Tong	Senior Lecturer

External Research Grants

	Total \$
Combined 2002-2006 income for all grants ≤ \$50,000	\$57,709

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	-	1	1	1
Masters	4	6	5	5	3

*as at 1 June each year

Publications

Chapter in Book

Love, R. M. (2005). Criteria for the evaluation of endodontic treatment outcome. *Future and Advancements in Conservative Dentistry and Endodontics* (pp. 146-151). India: Vishnu Dental College.

Journal Article

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DEPARTMENT OF ORAL REHABILITATION

Research undertaken within the Department of Oral Rehabilitation covers a diverse range of topics related to Clinical Cariology, Endodontics, Biomaterials, Prosthodontics and Dental Technology. More specifically, research is directed at the prevention and treatment of dental disease, the repair and replacement of teeth and their associate structures affected by disease, trauma or wear, the restoration of form, function and appearance, mechanical testing and computer modeling of the behaviour of dental tissues and biomaterials.

<http://dentistry.otago.ac.nz/departments/oralrehabilitation.html>

Staff

Mr David Purton	Senior Lecturer and Head of Department
Professor Brian Monteith	Professor
Professor Michael Swain	Professor
A/P Nicholas Chandler	Associate Professor
A/P Alan Payne	Associate Professor
Dr Vincent Bennani	Senior Lecturer
Mrs Catharina Hauman	Senior Lecturer
Mr Karl Lyons	Senior Lecturer
Dr Richard Cook	Lecturer
Mr Paul Ichim	Lecturer
Mr David Campbell	Clinical Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2003	Associate Professor Alan Graham Payne	A multicentre prospective evaluation of mandibular bilateral distal extension removable partial dentures, supported by ITI dental implants	ITI Foundation	\$114,924
Total				\$114,924
Combined 2002-2006 income for all grants ≤ \$50,000				\$128,593
Grand Total				\$243,517

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	2	2	2	1	3
Masters	8	10	10	15	7

*as at 1 June each year

Publications

Chapter in Book

Payne, A. G. T., Tawse-Smith, A. A., Thomson, W. M., & Duncan, W. J. (2003). Loading strategies for mandibular implant overdentures. In J. S. Feine & G. E. Carlsson (Eds.), *Implant overdentures: The standard of care for edentulous patients* (pp. 111-128). Chicago: Quintessence Publishing Co, Inc.

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Commissioned Report for External Body

Larking, P., Leichter, J., & Lyons, K. (2005). *Dental implants: Patient selection, patient satisfaction and cost factors*. Commissioned by Accident Compensation Corporation, 137p.

DEPARTMENT OF ORAL SCIENCES

The major research interests of the Department of Oral Sciences are cell biology, community oral health, education in dentistry, molecular oral microbiology, immunopathology, orthodontics and periodontics. Areas of particular research strength within the Department include craniofacial biology, dental epidemiology and public health, oral implantology, and immunopathology. The Department has a Molecular Microbiology Laboratory and laboratory research staff and students contribute to the University of Otago Oral Microbiology and Dental Health Research Theme. Research carried out under this theme in the department includes studies of the microorganisms responsible for a range of oral diseases, an understanding of the aetiology of oral diseases and their relationship to health and development of strategies to prevent them. The immunopathology group is a newly formed group which has an international reputation and has already established a number of international collaborations.

<http://dentistry.otago.ac.nz/departments/oralsciences.html>

Staff

Professor Jules Kieser	Professor and Head of Department
Professor Tom Kardos	Professor
Professor Richard Cannon	Professor
Professor Murray Meikle	Professor
Professor Greg Seymour AM	Professor
Professor Murray Thomson	Professor
A/P Bernadette Drummond	Associate Professor
Ms Mary Cullinan	Senior Research Fellow
Dr Warwick Duncan	Senior Lecturer
Mr David Healey	Senior Lecturer
Mr Jonathan Leichter	Senior Lecturer
Mr Douglas Holborow	Senior Lecturer
Dr Ann Holmes	Senior Research Fellow
Mrs Alison Meldrum	Senior Lecturer
Dr Brian Monk	Senior Research Fellow
Dr Kyoko Niimi	Senior Research Fellow
Mr Andrew Quick	Senior Lecturer
Dr Geoffrey Tompkins	Senior Lecturer
Mr Anuj Batra	Lecturer
Mr Jonathan Broadbent	Research Fellow
Dr Nicholas Heng	Research Fellow
Dr Erwin Lamping	Research Fellow
Ms Susan Moffat	Lecturer
Ms Kate Morgaine	Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Richard D Cannon	<i>Candida albicans</i> : Survival without sex?	Marsden Fund	\$315,721
2006	Dr Warwick Duncan	In vivo response of sheep osseous models to blasted-surface titanium dental implants treated with a novel anodising process	Chonbuk University, Megagen Implants Ltd, Osstem Implants Ltd	\$256,000
2006	Professor William Murray Thomson	Oral health among older people in Otago/Southland	HRC Feasibility Study	\$112,517
2006	Dr Brian C Monk	Inhibition of fungal drug efflux pump CaCdr1p	Japan Health Sciences Foundation	\$68,493
2006	Professor Richard D Cannon	Membrane protein structure and function	Lottery Grants Board	\$51,559
2005	Professor Richard D Cannon	Fungal transporters: from resistance to new antifungals	National Institutes of Health	\$1,393,610
2005	Professor Julius A Kieser	High resolution X-ray micro-tomograph	Lottery Health Research	\$172,000
2005	Professor Richard D Cannon	Molecular analysis of antifungal resistance and identification of drug targets in pathogenic fungi	Japan Health Sciences Foundation	\$82,082
2004	Professor Richard D Cannon	Inhibition of fungal drug efflux pump CaCdr1p	Japan Health Sciences Foundation	\$119,663
2004	Professor Murray C Meikle	Mechanisms of mechanically-induced remodelling and tooth movement	Lottery Health Research	\$84,454
2004	Professor Richard D Cannon	Molecular analysis of antifungal resistance and identification of drug targets in pathogenic fungi	Japan Health Sciences Foundation	\$68,400
2003	Professor William Murray Thomson	Oral health disparities in the first 4 decades of life	National Institutes of Health	\$887,950
2002	Professor Richard D Cannon	AIDS: Combating drug resistance of <i>Candida albicans</i>	National Institutes of Health	\$480,014
2002	Professor Richard D Cannon	Drug discovery tools that circumvent antifungal resistance	Japan Health Sciences Foundation	\$86,416
Total				\$3,948,479
Combined 2002-2006 income for all grants ≤ \$50,000				\$539,838
Grand Total				\$4,498,317

Research Contracts

Year Approved	Contractor	Organisations	Total \$ Approved
2004-06	Professor Richard D Cannon Associate Professor Bernadette K Drummond Professor Richard D Cannon Professor Richard D Cannon	Astellas Pharma, BLIS Technologies Limited, Fujisawa pharmaceutical company.	\$463,481
Combined 2002-2006 income for all contracts ≤ \$20,000			\$34,211
Grand Total			\$497,692

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	2	2	3	6	11
Masters	11	13	12	13	14

*as at 1 June each year

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Dr Erwin Lamping	Visiting Scientist (funded by National Institutes of Health) at the Membrane Protein Expression Centre, University of California San Francisco, USA
Oct-Dec 2006	Dr Erwin Lamping	Japan Society for the Promotion of Science (JSPS) short term fellowship
2005	Dr Ann Holmes	Japan Health Sciences Foundation Fellowship
2004	Dr Brian Monk	Japan Health Sciences Foundation Fellowship
2002	Dr Brian Monk	Japan Health Sciences Foundation Fellowship
July-Sept 2004	Dr Erwin Lamping	Japan Society for the Promotion of Science (JSPS) short term fellowship
Sept-Dec 2002	Dr Erwin Lamping	Japan Society for the Promotion of Science (JSPS) long term fellowship

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Journal Article

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Intellectual Property

- Monk, B. C., Cannon, R. D., Nakamura, K., Niimi, M., Niimi, K., Harding, D. R. K., Holmes, A. R., Lamping, E., Goffeau, A., & Decottignies, A. Membrane protein expression system and its application (NZ patent). In *New Zealand provisional patent #513755 (filed 24 August 2001)*. Intellectual Property Office of New Zealand (2002).

Commissioned Report for External Body

- Ayers, K. M. (2004). *Development of a comprehensive public health approach to improving child oral health and reducing child oral health inequalities*. Commissioned by Ministry of Health, 74p.
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Video

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Working Paper; Discussion Paper; Technical Report

- Thomson, W. M., Ayers, K. M., & Broughton, J. R. (2003). *Child oral health inequalities in New Zealand*. Improving child oral health and reducing child oral health inequalities: Report to the Minister of Health from the Public Health Advisory Committee. Wellington: National Advisory Committee on Health and Disability. (pp. 29-94).
- Thomson, W. M., & Fitzgerald, R. (2003). *Adolescent oral health care*. A report to the South Island Regional Co-ordination Service. (pp. 1-41).

Dr Ilona Kokay	Research Fellow
Dr Ping Liu	Lecturer
Dr Margaret Ryan	Research Fellow
Dr Jo-Ann Stanton	Research Fellow
Dr Joanna Williams	Lecturer
Dr Stephanie Woodley	Lecturer
Dr Robert Miller	Research Fellow (Honorary)
Dr Andrew Clarkson	Postdoctoral Fellow
Dr Koreen Clements	Postdoctoral Fellow
Dr Cyril Dejean	Postdoctoral Fellow
Dr Manfred Oswald	Postdoctoral Fellow
Dr Toni Pitcher	Postdoctoral Fellow
Dr Janette Quennell	Postdoctoral Fellow
Dr Chris Rawle	Postdoctoral Fellow
Dr Alexander Tups	Postdoctoral Fellow
Dr Walter Wittmann	Postdoctoral Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	A/Professor Ian McLennan	Does MIS drive boys towards manhood?	Marsden Fund Project	\$752,508
2006	A/Professor David R Grattan	Brain actions of Prolactin in the postpartum period	HRC International Investment Opportunities Fund	\$210,002
2006	Dr Kyoko McLennan	How does MIS support neurons?	Lottery Health Research	\$154,368
2006	Dr Gordon W Arbuthnott	Finding the substrate upon which deep brain stimulation acts to relieve parkinsonian symptoms	NZ Neurological Foundation Project	\$142,843
2006	Dr Ping Liu	Polyamines and age-associated cognitive decline	Lottery Health Research	\$129,935
2006	Dr Ping Liu	Agmatine and age-associated cognitive decline	NZ Neurological Foundation Project	\$115,209
2006	Dr John N J Reynolds	Effect of theta-burst stimulation on the plasticity of synapses onto single cortical neurons	NZ Neurological Foundation Postgraduate Scholarship	\$82,500
2005	Dr Nancy Tales, Professor Charles Higham	The Neolithic revolution in SouthEast Asia	Marsden Fund	\$690,923
2005	Dr Greg M Anderson	Gonadotrophin-inhibitory hormone: a new player in the control of fertility	Marsden Fund	\$577,779

2005	Dr John N J Reynolds	Monkey see; monkey do. How does visual information become associated with specific actions?	Marsden Fund	\$546,667
2005	Dr Greg M Anderson	The link between nutrition and fertility	HRC – Project	\$546,529
2005	Dr Greg M Anderson	The link between nutrition and fertility	HRC – Project	\$253,599
2005	Professor Helen D Nicholson	A novel method for the study of prostate growth	Lottery Health Research	\$133,249
2005	Dr Ming Zhang	Cellular patterning during myogenesis <i>in vivo</i>	Lottery Health Research	\$99,513
2005	Dr Stephen J Bunn	Estrogenic regulation of catecholamine synthesis in the adrenal medulla	Lottery Health Research	\$97,831
2005	Dr Ping Liu	Contribution of arginase to learning and memory – whether and how?	NZ Neurological Foundation	\$78,475
2005	A/Professor D Grattan	LIF in leptin receptor signaling	Auckland University Subcontract	\$67,130
2005	Dr Marilyn J Duxson	Control of myelination in the peripheral nervous system	Lottery Health Research	\$59,749
2005	Dr John N J Reynolds	How widely distributed brain cells become synchronised through reward-related learning	Lottery Health Research	\$61,513
2005	A/Professor David R Grattan	Elucidating prolactin action in the brain through transgenics	Lottery Health Research	\$54,000
2004	Professor David P L Green	ART and Stem cell biomarkers	FRST:NERF	\$4,936,099
2004	Professor Jeffery Wickens	Behavioural and cellular mechanisms of hyperactivity and movement disorders	HRC Programme	\$1,829,001
2004	Dr Joanna Williams, Professor Cliff Abraham, Professor Warren Tate	Regulation of synaptic plasticity across time: Mechanisms of metaplasticity	HRC – Project	\$860,351
2004	Dr John N J Reynolds Dr Dorothy E Oorschot	Spreading the word: how sparsely-distributed brain cells learn to respond to the same stimulus.	Marsden Fund Project	\$761,067
2004	A/Professor Ian McLennan	Does the location of an external signal influence how a cell responds to it?	Marsden Fund	\$586,667
2004	Dr Joanna M Williams	Why do we forget when we get old?	Marsden Fund	\$560,001
2004	Dr Greg M Anderson	The Link Between Nutrition and Fertility	Lottery Health Research	\$149,330
2004	Dr Hallie R Buckley	Human skeletal biology in prehistoric Vanuatu, Pacific Islands: Human adaptation to the island environment from initial settlement to post-European contact.	Marsden Fund	\$127,313

2004	Dr Ping Liu	Contribution of nitric oxide synthase, arginase and cyclooxygenase to age related memory impairments	NZ Neurological Foundation	\$106,543
2004	Dr Joanna Williams Dr Aaron Jeffs	Equipment for gene expression profiling	Lottery Health Research	\$80,000
2004	Dr Marilyn J Duxson	Control of myelination in the peripheral nervous system	Lottery Health Research	\$60,071
2004	Professor Jeffery Wickens	Adenosine A2A receptor regulation of inhibitory interactions in the rat striatum: a novel target for drug treatment of Parkinson's disease	NZ Neurological Foundation	\$59,971
2004	Dr Peter R Hurst	Laser Capture Microdissection system	Lottery Health Research	\$50,000
2003	A/Professor David R Grattan	Pregnancy as a model for leptin-resistant obesity	Marsden Fund	\$509,335
2003	Dr Greg M Anderson	Prolactin signaling in the brain: uncovering new roles for an old hormone	Marsden Fund	\$88,798
2003	Professor Jean S Fleming	Studies on the cellular origin of ovarian inclusion cysts	Lottery Health Research	\$75,284
2002	Dr Joanna Williams, Professor Jeffrey Wickens, Professor Warren Tate, Professor Cliff Abraham	Cellular mechanisms of learning and memory in the brain	HRC Programme	\$1,213,530
2002	Professor David P L Green	Designer DNA chips for reproductive health and wellness	FRST:NERF	\$666,668
2002	Dr Stephen J Bunn	Do cytokines regulate the activity of the adrenal medulla?	Lottery Health Research	\$109,106
2002	Professor Jeffery Wickens, Dr John NJ Reynolds	A cellular mechanism for learning in the brain	Marsden Fund	\$533,333
2002	Professor Helen Nicholson Dr Steve Assinder	Oxytocin and benign prostate disease	Lottery Health Research	\$110,806
2002	Miss Toni Pitcher	Cellular mechanisms of dopamine function in the brain	NZ Neurological Foundation Postgraduate Scholarship	\$72,710
2002	Mr Lance Graham Nash	Deep cervical fascia	Tuapapa Putaiao Māori	\$58,333
Total				\$18,512,638
Combined 2002-2006 income for all grants ≤ \$50,000				\$825,436
Grand Total				\$19,338,074

Research Contracts

Year Approved	Contractors	Organisations	Total \$ Approved
2003-06	A/Professor Ian McLennan Dr George Dias Dr Kyoko Koishi Mr Allan Mitchell	Otago Innovation Limited Keratec Limited Ministry of Research Science and Technology Keratec Limited Otago DHB	\$411,049
Combined 2002-2006 income for all contracts ≤ \$20,000			\$16,517
Grand Total			\$427,566

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	32	35	32	30	32
Masters	18	17	25	28	30

*as at 1 June each year

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Mr Pei-Yu Wang	Winner of the Advancing Human Health category of the McDiarmid Young Scientist of the Year awards
2006	Ms M Barry	Miller Scholarship, Neurological Foundation
2005	Dr JNJ Reynolds	University of Otago Early Career Award for Distinction in Research
2005	A/P DR Grattan	Physiological Society of New Zealand's Triennial Medal for distinguished physiological research over the past 5 years
2004	Dr JNJ Reynolds	Brain Research Young Investigator Award, awarded by Elsevier Science and Editors of Brain Research
2003	Ms T Pitcher	Miller Scholarship, Neurological Foundation
2002	Ms S Halcrow	Bright Futures Scholarship
2002	Mr L Nash	Tuapapa Putaiao Māori Fellowship

Publications

Book

- Campbell, A., Gillett, G., & Jones, G. (2005). *Medical ethics* (4 ed.). Melbourne, Australia: Oxford University Press, 312p.
- Jones, D. G. (2004). *Human cloning: To fear or not to fear*. Tauranga, New Zealand: AFFIRM, 31p.
- Jones, D. G. (2005). *Designers of the future: Who should make the decisions?* Oxford, UK: Monarch Books, 256p.
- Jones, D. G. & Byrne, M. (Eds.) (2004). *Stem Cell Research and Cloning: Contemporary Challenges to our Humanity*. Adelaide: ATF Press.
- Oxenham, M., & Tayles, N. (2006). *Bioarchaeology of Prehistoric Southeast Asia*. Cambridge: Cambridge University Press.
- Schüz, A. and Miller, R. (2002). *Cortical areas: Unity and diversity*. London: Taylor and Francis Publishers, 500p
- Stringer, M.D., Oldham, K.T. & Mouriquand, P.D.E. (2006). *Pediatric Surgery and Urology: Long Term Outcomes*, (2nd ed). New York: Cambridge University Press.

Chapter in Book

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- Buckley, H. (2006). The predators within: investigating the relationship between malaria and health in the prehistoric Pacific Islands. In Oxenham, M. & Tayles, N. (Eds). *Bioarchaeology of Prehistoric Southeast Asia* (pp. 309-332). Cambridge: Cambridge University Press.
- Domett, K. M. & Tayles, N. (2006). Human biology from the Bronze Age to the Iron Age in the Mun River Valley, Northeast Thailand. In Oxenham, M. & Tayles, N. (Eds). *Bioarchaeology of Prehistoric Southeast Asia* (pp. 220-240). Cambridge: Cambridge University Press.
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- Jones, D. G. (2003). Cloning, stem cell technology and genetic modification: Reinventing the human person. In M.L.Y. Chan & R. Chia (Eds.), *Beyond determinism and reductionism: Genetic science and the person* (pp. 16-35). Adelaide: ATF Press.
- Jones, D. G. (2004). A neurobiological portrait of the human person: Finding a context for approaching the brain. In J. B. Green (Ed.), *What about the soul? Neuroscience and Christian anthropology* (pp. 31-46). Nashville: Abingdon Press.
- Jones, D. G. (2004). The emergence of persons. In M. Jeeves (Ed.), *From cells to souls - and beyond. Changing portraits of human nature* (pp. 11-33). Grand Rapids, Michigan: Wm. B. Eerdmans.
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- Jones, D. G. (2006). The Human Embryo: Its Ambiguous Nature. In M. Jeeves (Ed), (pp. 25-40). The Royal Society of Edinburgh.
- Jones, D. G. & Galvin, K.A. (2006). Human reproductive cloning. In R.E. Ashcroft, A. Dawson, H. Draper, & J. McMillan (Eds). *Gillon's Principles of Health Care Ethics*, (2nd ed). Wiley.
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Journal Article

- Abbott, J. H. (2003). Physiotherapy in addition to medical care is more effective than medical care alone, for low back pain. *New Zealand Journal of Physiotherapy*, 31(1), 48.
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- Abbott, J. H., & Mercer, S. R. The natural history of acute low back pain. *New Zealand Journal of Physiotherapy* 30(3):8-16 (2002).
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- Andrews, Z. B., & Grattan, D. R. (2004). The roles of dopamine and the neurointermediate lobe of the pituitary in the regulation of prolactin secretion during late pregnancy in rats. *Journal of Neuroendocrinology*, 16, 859-865.
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Intellectual Property

Dias, G., Peplow, P. V., Kelly, R. J., Roddick-Lanzilotta, A. D., & Herath, C. Orthopaedic Materials Derived from Keratin. In *Provisional Application for Patent No 519456*. Baldwin Shelston Waters (2002) .

Kelly, R. J., Roddick-Lanzilotta, A. D., Dias, G., & Peplow, P. V. (2003). Orthopaedic materials derived from keratin.(PCT/NZ03/00116).

Software

Abbott, J. H., McCane, B., & King, T. (2003). ClaritySMART - Spinal Motion Analysis Research Technology. Dunedin, New Zealand: University of Otago. <http://claritysmart.otago.ac.nz/>

Commissioned Report for External Body

Dennison, K. J. (2004). *The left femur and proximal left tibia from the Hochstetter Glacier*. Commissioned by Timaru Hospital. New Zealand: University of Otago.

Dennison, K. J. (2004). *The skeletal remains from Canterbury Museum, post-March 2004*. Commissioned by Canterbury Museum. New Zealand: University of Otago, 2p.

Working Paper; Discussion Paper; Technical Report

Jones, D. G. (2004). *Manipulating human genes: How significant are species boundaries?* Reflections on the use of human genes in other organisms: Ethical, spiritual and cultural dimensions. Wellington, New Zealand: Bioethics Council. (pp. 61-65).

DEPARTMENT OF BIOCHEMISTRY

Research in the Department of Biochemistry is largely concerned with fundamental processes associated with a number of significant biomedical and biological problems: vision and deafness; heart disease; cancer; diabetes; memory and neurological disease; pathogenic viruses, micro-organisms and fungi; flowering, senescence, photosynthesis, nitrogen utilization in plants, symbiosis; mammalian preimplantation embryo development; cold adaptation; eukaryotic retroelements; body weight and cell signalling; molecular evolution; apoptosis; biodiversity. The Department houses the Otago Genomics Facility, The Centre for Protein Research, and a new X-Ray Crystallography suite.

<http://biochem.otago.ac.nz/>

Cancer Genetics Laboratory

The Cancer Genetics Laboratory was established in 1980, and is one of the largest medical research groups in New Zealand, consisting of 24 personnel. The major focus of the Cancer Genetics Laboratory is to determine the genetic changes associated with neoplasia. Research in the laboratory involves four major research projects which straddle the broad areas of embryology, cell biology, genetics, molecular biology and tumourigenesis. The overall aim of the group is to elucidate the genetic events leading to cancer, in order to improve diagnostic methods and assist in the design of better therapies.

<http://cancer.otago.ac.nz/>

Staff

A/P John Cutfield	Associate Professor and Head of Department
Professor Kurt Krause	Professor
Professor George Petersen	Emeritus Professor
Professor Tony Reeve	Professor
Professor Warren Tate	Professor
A/P Julian Eaton-Rye	Associate Professor
A/P Kevin Farnden	Associate Professor
Dr Parry Guilford	Research Associate Professor
A/P Iain Lamont	Associate Professor
A/P Mike Legge	Associate Professor
A/P Sally McCormick	Associate Professor
A/P Russell Poulter	Associate Professor
Dr Mik Black	Senior Lecturer
Dr Judy Broom	Senior Research Fellow

Dr Chris Brown	Senior Lecturer
Dr Alan Carne	Senior Lecturer
Dr Susan Cutfield	Senior Research Fellow
Dr Catherine Day	Senior Lecturer
Dr Peter Dearden	Senior Lecturer
Dr Liz Ledgerwood	Senior Research Fellow
Dr Richard Macknight	Senior Lecturer
Dr Craig Marshall	Senior Lecturer
Dr Marion Maw	Senior Research Fellow
Dr Tony Merriman	Senior Research Fellow
Dr Ian Morison	Senior Research Fellow
Dr Elizabeth Poole	Senior Research Fellow
Dr Mary Thompson	Senior Lecturer
Dr Sigurd Wilbanks	Senior Lecturer
Dr Margi Butler	Research Fellow
Dr Ryuji Fukuzawa	Research Fellow
Dr Tim Goodwin	Research Fellow
Dr Bostjan Humar	Research Fellow
Dr Becky Laurie	Research Fellow
Dr Fabienne Lecomte	Research Fellow
Dr Yu-Hsin Lin	Research Fellow
Dr Cushla McKinney	Research Fellow
Dr Peter Stockwell	Research Fellow
Dr Paul Turner	Research Fellow
Mr Rob Weeks	Research Fellow
Dr Megan Wilson	Research Fellow
Dr Jade Hollis-Moffatt	Postdoctoral Fellow
Dr Katrin Linke	Postdoctoral Fellow
Dr Peter Mace	Postdoctoral Fellow
Dr Matthew Shirley	Postdoctoral Fellow
Dr James Smith	Postdoctoral Fellow
Dr Callum Smits	Postdoctoral Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Anthony E Reeve	Genetics and Epigenetics of Cancer	HRC Programme	\$5,913,598
2006	Dr Peter Dearden	The Evolution of Animals: A new model system for animal developmental genetics	Marsden Fund	\$693,332
2006	A/Prof Sally P A McCormick	Regulation of HDL level	HRC – Project	\$665,679
2006	Professor Anthony Reeve Dr Ian Morison	NRCGD CORE – MTHFR Gene Polymorphisms and Epigenetic regulation	Auckland University Subcontract	\$586,266
2006	A/Prof Russell Poulter	Microbial models of the human LI retrotransposon	HRC International Investment Opportunities Fund	\$457,000
2006	Dr Tony R Merriman	Whole genome association scanning for common autoimmunity genes	HRC International Investment Opportunities Fund	\$418,874

2006	Dr Judith E Broom	Taxonomy of macroalgae (Schedule two)	National Institute for Water and Atmosphere	\$293,301
2006	Dr Richard C Macknight	Comparative genetics of flowering in legumes	AGMARDT Postdoctoral Fellowship	\$135,556
2006	Dr Michael A Black	Bayesian Models for Personalized Medicine	Marsden Fund Project	\$128,374
2006	Dr Judith E Broom	Assessment and definition of the biodiversity of coralline algae in northern New Zealand (Schedule 1)	National Institute for Water and Atmosphere	\$112,640
2006	Dr Tony Merriman	Identification of multi-copy genes associated with type 1 diabetes	Child Health Research Foundation (NZ)	\$100,000
2006	Dr Tony R Merriman	Testing for association of multi-copy genes with rheumatoid arthritis	Arthritis NZ Project Grant	\$91,383
2006	Dr Bostjan Humar	Validation of drug targets for the prevention and treatment of lobular breast cancer (Martine Elizabeth Cuff Breast Cancer Bequest)	Faculty of Medicine Trust	\$82,654
2006	Dr Catherine L Day	RING-RING interactions: a key to regulating protein degradation?	Lottery Health Research	\$70,000
2006	A/Prof Russell Tony Poulter	Diagnosis of infections caused by the fungal pathogen <i>Aspergillus fumigatus</i>	HS & JC Anderson	\$64,757
2005	Professor Warren Tate	Post-transcriptional processes as drug targets for HIV and Hepatitis B and C viruses	HRC – Project	\$1,302,420
2005	Dr Elizabeth C Ledgerwood	Functional analysis of ERp29, a protein folding assistant upregulated in cancer	HRC – Project	\$912,452
2005	Dr Catherine L Day	Regulation of degradation by RING domain-mediated interactions	Marsden Fund	\$646,586
2005	A/Prof Iain L Lamont	Control of gene expression by regulated degradation of a transcription factor	Marsden Fund	\$576,890
2005	Dr Judith E Broom	1. Assessment and definition of the biodiversity of coralline algae in northern New Zealand. 2. Taxonomy of macroalgae.	National Institute for Water and Atmosphere	\$171,400
2005	A/Prof Iain L Lamont	Iron, <i>Pseudomonas aeruginosa</i> and lung disease in cystic fibrosis	University of Tasmania – subcontract	\$165,755
2005	Dr Elizabeth C Ledgerwood	Utility for a cell-death mutation from a healthy family?	HRC Strategic Development	\$121,205
2005	Professor Warren P Tate	Shared equipment for protein purification	Lottery Health Research	\$96,113

2005	Dr Marion A Maw	Characterization of a mouse models for an inherited eye disorder	Lottery Health Research	\$83,994
2004	Dr Tony R Merriman	Comparative mapping in human and mouse to characterise the IDDM6 autoimmune disease locus	HRC – Project	\$1,558,149
2004	Professor Warren Tate	Mechanisms of synaptic plasticity failure in Alzheimer's Disease	HRC – Project	\$887,621
2004	Professor Warren Tate	Regulation of synaptic plasticity across time: Mechanisms of metaplasticity	HRC – Project	\$860,351
2004	Dr Peter Dearden	Shaping Animals: The Evolution of Developmental Pathways	Marsden Fund Project	\$630,333
2004	Dr Catherine L Day	Bcl-w: A model pro-survival Bcl-2 family protein.	Marsden Fund Project	\$533,333
2004	Dr Elizabeth C Ledgerwood	Determining the role of ERp29 in lung physiology	Lottery Health Research	\$84,388
2004	A/Prof Russell Tony Poulter	Inteins for diagnosis of the fungal pathogens <i>Aspergillus</i> and <i>Cryptococcus</i>	Lottery Health Research	\$82,976
2004	Dr Sigurd Wilbanks	Does a shape-change modulate tumour suppressor WT1's DNA and RNA binding behaviour	Child Health Research Foundation	\$75,662
2004	A/Prof Sally P A McCormick	Postgraduate Scholarship – Euan Rodger	National Heart Foundation	\$75,111
2003	Professor Anthony E Reeve	Genetics and Epigenetics of Cancer	HRC Programme	\$3,065,657
2003	Professor Anthony E Reeve	Centre of Research Excellence – National Research Centre for Growth and Development	Equipment – National Research Centre for Growth and Development	\$1,139,706
2003	Professor Warren P Tate Dr Elizabeth Sally Poole	Can a linear sequence impart three-dimensional information for decoding stop signals in protein synthesis?	Marsden Fund	\$640,000
2003	A/Prof I L Lamont A/Prof P Bremer A/Prof AJ McQuillan	How do bacteria stick to metals?	Marsden Fund	\$548,443
2003	A/Prof Julian J Eaton-Rye	The contribution of the protein environment of the oxygen-evolving complex of photosynthesis in the stabilisation of biological water-splitting and oxygen production.	Marsden Fund	\$493,334
2003	Dr Tony R Merriman	Immune and molecular biology of the Idd21.1 autoimmune diabetes locus.	Marsden Fund	\$364,222

2003	Dr Shannon Clarke A/Prof Julian J Eaton-Rye	The role of reactive oxygen species and jasmonic acid in thermotolerance	NZ Science & Technology Postdoctoral Fellowship	\$212,667
2003	Andrew Firth	New computational algorithms for gene-finding	NZ Science & Technology Postdoctoral Fellowship	\$199,368
2003	A/Prof Sally P A McCormick	Testing a novel strategy for lipoprotein(a) lowering	National Heart Foundation Project	\$183,026
2003	A/Prof John Cutfield	Structure-based inhibition of the enzyme uridine phosphorylase	Lottery Health Research	\$133,332
2003	Dr Tony R Merriman	Fine-mapping the mouse Idd2 l.2 autoimmune diabetes susceptibility locus	Lottery Health Research	\$87,407
2003	A/Prof Russell Tony Poulter	HIV/AIDS therapy: targeting an intein in the pathogenic yeast <i>Cryptococcus neoformans</i> .	Lottery Health Research	\$77,170
2003	Dr Tony R Merriman	The BCL-2 gene and susceptibility to rheumatoid arthritis	Arthritis NZ	\$60,947
2003	Dr Catherine L Day	Analysis of the folded and unfolded states of proteins	Lottery Health Research	\$60,000
2002	Professor Tony Reeve, H-S Yoon, Parry Guilford, J McCall, N Kasabov, M W Thompson-Fawcett, A Merrie	Predicting colorectal cancer outcome using gene expression profiling	HRC Project	\$1,446,807
2002	Professor Warren Tate	Cellular mechanisms of learning and memory in the brain	HRC Programme	\$1,213,530
2002	Professor Warren Tate	Can a linear Sequence impart three-dimensional information for decoding stop signals in protein synthesis	Marsden Fund	\$720,000
2002	Professor Warren Tate	Mechanisms of nervous system dysfunction early in Alzheimer's Disease	HRC Project	\$597,441
2002	Dr Richard C Macknight	Proteomic approaches to elucidate the regulation of flowering time	Marsden Fund Project	\$586,667
2002		Preventing ryegrass flowering	AGMARDT Postdoctoral Fellowship	\$205,556
2002	Dr Judith E Broom	Taxonomic and systematic research on New Zealand non-geniculate coralline algae	National Institute for Water and Atmosphere	\$205,001
2002	Dr Judith E Broom	Marine algal systematics and life histories. Objective2 Molecular analysis of marine macroalgae	Museum of New Zealand Project	\$188,445

2002	Dr Mike Sullivan and Professor Tony Reeve	Intelligent data tools and microarray gene expression analysis for clinical decision making in neuroblastoma	Child Cancer Foundation	\$165,989
2002	Dr Elizabeth C Ledgerwood	Mitochondrial involvement in tumour necrosis factor cytotoxicity: a proteomic approach.	Lottery Health Research	\$128,332
2002	Emma Wyeth	Genetics of diabetes and gout in New Zealand Māori	HRC Fellowships and Scholarships	\$110,000
2002	Dr Peter Dearden	Estimating the risk of horizontal gene transfer from genetically modified crops	Marsden Fund	\$88,891
2002	Miss Kylie Drake	Genomic imprinting of p14ARF may contribute to childhood ALL.	Child Health Research Foundation	\$70,000
Total				\$31,520,887
Combined 2002-2006 income for all grants ≤ \$50,000				\$1,426,361
Grand Total				\$32,947,248

Research Contracts

Year Approved	Contractor	Organisation	Total \$
2002-05	Dr Chris Brown Dr Susan M Cutfield A/Professor John Cutfield Professor Anthony E Reeve A/Prof Julian J Eaton-Rye	AgResearch Ovita Global Technologies Foundation for Research, Science and Technology Pacific Edge Biotechnology HortResearch	\$470,417
Combined 2002-2006 income for all contracts ≤ \$20,000			\$83,046
Grand Total			\$553,463

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	27	40	44	46	50
Masters	13	12	17	17	9

*as at 1 June each year

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Professor Warren Tate	University of Otago Distinguished Research Medal and Prize
2006	Dr Peter Dearden	University of Otago Early Career Award for Distinction in Research
2006	Dr Peter Dearden	Promising Research Award, Queenstown Molecular Biology Meeting
2006	A/Prof Julian Eaton-Rye	NZSBMB Applied Biosystems Award for Excellence in Research
2006	Daniel Garama (PhD student)	FoRST Scholarship
2005	Professor Tony Reeve	University of Otago Distinguished Research Medal
2005	Professor Warren Tate	OSMS Research Prize
2005	Dr Catherine Day	Rowheath Award/Carl Smith Medal
2005	Dr Peter Dearden	OSMS Highly Commended Research Paper of the Year
2005	A/Professor Julian Eaton-Rye	Outstanding Plant Physiologist Award: New Zealand Society of Plant Physiologists
2004	Dr Tony Merriman	Tom Highton Award for most Meritorious Paper; 2004 New Zealand Rheumatology Association
2004	A/Professor Iain Lamont	Applied Biosystems/NZSBMB Award for Research Excellence
2003	A/Professor Iain Lamont	International Research Fellow of the Society for General Microbiology (UK)
2003	A/Professor Julian Eaton-Rye	Otago University Students' Association Award for Excellence in Postgraduate Supervision
2002	Professor Tony Reeve	Officer of the New Zealand Order of Merit (for Services to Medical Science)

Publications

Chapter in Book

- Dunbier, A. K., & Guilford, P. J. (2002). Gastric cancer: Inherited predisposition. In S. R. Hamilton & L. A. Aaltonen (Eds.), *Encyclopedia of Cancer, Volume 2* (2nd ed.). (pp. 253-258). USA: Elsevier Science.
- Eaton-Rye, J.J. and Putnam-Evans, C. The CP47 and CP43 core antenna components. In *Photosystem II: The Light-Driven Water/Plastoquinone Oxidoreductase*. T. Wydrzynski and K. Satoh, eds. Springer, Dordrecht, The Netherlands pp 45-70 (2005)
- Eaton-Rye, J. J. (2004). The construction of gene knockouts in the Cyanobacterium *Synechocystis* sp. PCC 6803. In R. Carpentier (Ed.), *Methods in molecular biology, vol. 274: Photosynthesis research protocols* (pp. 309-324). Totowa, USA: Humana Press.
- McCormick, S. P. A., Liu, C. Y-Y., Young, S. G., & Nielsen, L. B. (2003). Manipulating large insert clones for transgenesis. In M. H. Hofker & J. van Deursen (Eds.), *Methods in molecular biology: Transgenic mouse methods and protocols* (pp. 105-123). Totowa, NJ: Humana Press.
- Poole, E. S., Major, L. L., Cridge, A. G., & Tate, W. P. (2004). The mechanism of recoding in pro- and eukaryotes. In K. H. Nierhaus & D. N. Wilson (Eds.), *Protein synthesis and ribosome structure: Translating the genome* (pp. 397-428). Weinheim, Germany: Wiley-VCH.

Journal Article

- Ackerley, D. F., Caradoc-Davies, T. T., & Lamont, I. L. (2003). Substrate specificity of the nonribosomal peptide synthetase PvdD from *Pseudomonas aeruginosa*. *Journal of Bacteriology*, 185(9), 2848-2855.
- Ackerley, D. F., & Lamont, I. L. (2004). Characterization and genetic manipulation of peptide synthetases in *Pseudomonas aeruginosa* PAO1 in order to generate novel pyoverdines. *Chemistry and Biology*, 11, 971-980.
- Ackland, J.C.W., Scott, J.A., Zuccarello, J., Giuseppe, C. & Broom, J. (2006). Biology of *Porphyra pulchella* sp. nov. from Australia and New Zealand. *Algae*, 21(2):193-208.

- Adhikari, R. P., Cook, G. M., Lamont, I., Lang, S., Heffernan, H., & Smith, J. M. B. Phenotypic and molecular characterization of community occurring, Western Samoan phage pattern methicillin-resistant *Staphylococcus aureus*. *Journal of Antimicrobial Chemotherapy* 50:825–831 (2002).
- Adlam, V. J., Harrison, J. C., Porteous, C. M., James, A. M., Smith, R. A. J., Murphy, M. P., & Sammut, I. A. (2005). Targeting an antioxidant to mitochondria decreases cardiac ischemia-reperfusion injury. *The FASEB Journal*, 19, 1088–1095.
- Aguilan, J. T., Broom, J. E., Hemmingson, J. A., Dayrit, F. M., Montañó, M. N. E., Dancel, M. C. A., Niñonuevo, M. R., & Furneaux, R. (2003). Structural analysis of carrageenan from farmed varieties of Philippine seaweed. *Botanica Marina*, 46, 179–192.
- Aguilar-Rosas, L. E., Aguilar-Rosas, R., Sánchez-Rodríguez, I., Broom, J. E., & Nelson, W. A. (2004). The genus *Porphyra* (Bangiaceae, Rhodophyta) in the Pacific coast of Mexico. IV. *Porphyra pendula* E.Y. Dawson. *Hidrobiológica*, 14(4), 121–126.
- Anderson, L. B., Ouellette, A. J. A., Eaton-Rye, J., Maderia, M., MacCoss, M. J., Yates III, J. R., & Barry, B. A. (2004). Evidence for a post-translational modification, aspartyl aldehyde, in a photosynthetic membrane protein. *Journal of the American Chemical Society*, 126, 8399–8405.
- Baek, J.-h., Jones, G., Deng, M., van Rij, A., Hammond-Tooke, G., Cole, J., Cleveland, S., & McCormick, S. (2005). Lipoprotein (a): A risk factor for stroke? *The New Zealand Medical Journal*, 118(1215).
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Intellectual Property

- Butler, M., & Poulter, R. (2004). Cosmos atrosanguineus (Hook) Voss. *European Community Plant Variety Office Patent*(13436). <http://www.cpvo.fr>
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Commissioned Report for External Body

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DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The main research interests of staff in the Department of Microbiology and Immunology lie in the areas of agricultural microbiology, biotechnology, clinical microbiology and infectious diseases, microbial genetics, immunology and vaccine technology. Research is carried out in the following key areas: antibiotic resistance in bacteria, clostridial genetics, dendritic cells and their function, environmental microbiology and bioremediation, insect viruses and the biological control of insect pests, intestinal microflora, milk products, mycobacterial diseases of animals, microbial genomics, nitrogen fixing bacteria and improving plant growth, streptococci and the biological control of streptococcal diseases, vaccine development and delivery systems, viruses and viral vaccines.

<http://microbiology.otago.ac.nz/dept/>

Virus Research Unit

The work of the Virus Research Unit is focused on understanding viruses at the molecular level and exploiting this information in the development of vaccines against viral diseases of humans and agriculturally important animals. The Unit is currently working with two viruses, the human papilloma virus and the orf virus.

http://www.otago.ac.nz/research/centres/res_cen_virus.html

Staff

Professor Frank Griffin

Professor David Jones
 Professor Andrew Mercer
 Professor Clive Ronson
 Professor Sandy Smith*
 Professor John Tagg
 Professor Gerald Tannock
 A/P Margaret Baird
 A/P Glenn Buchan
 A/P Gregory Cook
 A/P James Kalmakoff
 A/P Vernon Ward
 Dr Stephen Fleming
 Dr Marilyn Hibma
 Dr Ralph Jack
 Dr Alex McLellan
 Dr Michelle McConnell
 Dr Robin Simmonds
 Dr Norihito Ueda
 Dr Nicholas Heng
 Dr Stefanie Keis
 Dr Rory O'Brien
 Dr John Sullivan
 Dr Lyn Wise
 Dr Sarah Young

Professor and Head of Department

Professor
 Research Professor
 Professor
 Professor
 Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Senior Research Fellow
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Research Fellow
 Senior Lecturer
 Senior Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow

* Professor Smith was a staff member during the review period. Sadly he died mid-2007.



Professor Andy Mercer; Dr Sarah Young Professor Kurt Krause and Dr Marilyn Hibma.

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Marilyn H Hibma	Regulation of host defences in the skin by a tumour-causing virus	HRC – Project	\$981,216
2006	Professor Gerald W Tannock Dr Paul O'Toole	Lactobacillus dialogues: the impact of cell signaling on gene expression and ecological behaviour of a gut commensal	Marsden Fund	\$669,324
2006	Dr Marilyn H Hibma	Regulation of the host defences in the skin by a tumour-causing virus	Cancer Society	\$499,849
2006	Dr Sarah L Young	A virus-like particle (VLP) vaccine against Chlamydia	Lottery Health Research	\$159,605
2006	A/Prof Gregory Murray Cook	Unravelling Mycobacterial Energetics – a new area for drug discovery	Lottery Health Research	\$133,582
2006	Prof J Francis Thomas Griffin	AGMARDT Scholarship (Mark Robinson)	Scholarship – AGMARDT	\$89,222
2006	A/Prof Gregory Cook Professor Edward N Baker	A targeted application of structural genomics to TB biology and drug development	Auckland University Subcontract	\$86,205
2005	A/Prof Gregory Murray Cook	A Novel Regulatory Protein used by Bacteria to Sense and Resist Antibiotics	Marsden Fund	\$613,335
2005	Dr Muriel Dufour	Potential use of antisense constructs in the prevention of dental caries	NZ Science & Technology Postdoctoral Fellowship	\$227,005
2005	Dr Alexander Donald McLellan	Development of a non-invasive test for predicting renal transplant rejection	Lottery Health Research	\$129,364
2005	Dr Sarah L Young	Virus-like particles to deliver a 'wipe on' vaccine against Chlamydia	HRC Strategic Development	\$102,711
2005	Dr Marilyn H Hibma	Is regulation of cell adhesion by papillomaviruses associated with persistence?	Lottery Health Research	\$96,470
2005	A/Professor Margaret A Baird	AutoMACs cell separation system	Lottery Health Research	\$67,000
2004	Professor Andrew Allan Mercer	Viral virulence and pathogenicity: multi-component manipulation of host physiology	HRC – Project	\$3,290,556
2004	Professor Gerald W Tannock	Detection and identification of bacterial substances that activate the adaptive immune response in pouchitis	Crohn's and Colitis Foundation of America	\$445,780
2004	Dr Sarah L Young	Examining DNA vaccines	Lottery Health Research	\$80,000

2004	Dr Stephen B Fleming	In vivo characterisation of Orf virus chemokine-binding protein in murine models	HRC Fellowships and Scholarships	\$75,000
2004	Marie Inder	Functional analysis of a unique viral vascular endothelial growth factor	HRC Fellowships and Scholarships	\$75,000
2004	Professor Gerald W Tannock	Immunological influences of gut bacteria in early life: bifidobacteria and allergies	Child Health Research Foundation	\$72,158
2004	A/Prof GM Cook	Benchtop Fermentation System	Lottery Health Research	\$70,000
2003	A/Prof Vernon K Ward	Structural and functional analysis of a new class of RNA-dependent RNA polymerases	Marsden Fund	\$599,112
2003	A/Prof Gregory Murray Cook	Understanding how a biological turbine controls its direction of rotation: forward or reverse	Marsden Fund	\$551,112
2003	Professor Andrew Mercer	New generation viral vaccines	FRST: NERF	\$468,848
2003	Professor Clive W Ronson	Horizontal transfer of genomic islands in the lab and the environment	Marsden Fund	\$453,335
2003	Dr John T Sullivan	Defining the minimal microsymbiont complement and novel plant genes required to build a root nodule	Marsden Fund	\$426,667
2003	Professor Gerald W Tannock	Cloning the gut metagenome: a strategy to detect pro-inflammatory substances produced by intestinal bacteria	Broad Medical Research Program – Inflammatory Bowel Disease Grants	\$142,750
2003	A/Prof Vernon K Ward	Characterisation of EppoMNPV genes – NERF/HortResearch subcontract	HortResearch	\$106,665
2003	Dr Alexander Donald McLellan	Presentation of auto-antigens by gut dendritic cells	Lottery Health Research	\$100,000
2003	Dr Alexander Donald McLellan	Soluble-major histocompatibility class II molecules in blood and their interactions with bacterial superantigens	Marsden Fund	\$88,889
2003	Professor John R Tagg	Scholarship – Kara Swanson	Scholarship – AGMARDT	\$88,778
2003	A/Prof Gregory Murray Cook	Proteomics Analysis of Mycobacteria: Response to Acid pH Stress.	Lottery Health Research	\$77,088
2003	A/Prof Glenn S Buchan	Purchase of Biobubble Clean Room technology for animal facility	Lottery Health Research	\$60,000

2003	Dr Ralph Wilson Jack	High-pressure liquid chromatography system (HPLC)	Lottery Health Research	\$60,000
2002	Professor Clive W Ronson	Rhizobia and sustainable agriculture	FRST: PGST	\$175,823
2002	Prof J Francis Thomas Griffin	Diagnostic and preventive methods for Johne's disease	FRST: PGST	\$106,667
2002	Dr Vernon K Ward	Indovirus-based photonic crystals	US Air Force	\$51,619
Total				\$11,520,735
Combined 2002-2006 income for all grants ≤ \$50,000				\$605,689
Grand Total				\$12,126,424

Research Contracts

Year Approved	Contractor	Organisation	Amount
2002-06	Dr Frank Aldwell A/Prof Glenn S Buchan Prof J Francis Griffin Dr Michelle A McConnell Professor Andrew Mercer Professor Clive W Ronson Professor John R Tagg Professor Gerald W Tannock Dr Vernon K Ward	Animal Health Board AroTech Diagnostics Ltd Auckland University DEEResearch Fonterra Cooperative Dairy Company Ltd Fonterra Research Centre Ltd Foundation for Research, Science and Technology Immune Solutions Ltd LactoPharma New Zealand Dairy Research Institute NZ Milk Products Ovita Te Runanga o Ngai Tahu Technology New Zealand Tiense Suikerraffinaderij Zenith Technology Corp Ltd	
Grand Total			\$6,635,433

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	29	29	29	32	36
Masters†	28	17	18	17	15

* as at 1 June each year

† head count is for thesis year students only and includes MSc (BITE) and MSc (GENE) students

Publications

Book

Tannock, G. W. (Ed). *Probiotics and Prebiotics: Where are we going?* Caister Academic Press, Norfolk (2002) 333p.

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Chapter in Book

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Journal Article

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Intellectual Property

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DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

The Department of Pharmacology and Toxicology engages in high quality, internationally-recognised research focused on the following themes of cellular and molecular neuropharmacology and neurotoxicology: cardiovascular signalling and cardioprotection; drug resistant cancer and drug metabolism; inflammation (dermatology and CNS stroke models) and wound healing; pharmacovigilance/pharmacogenetics; toxicology and neuroprotection, and vestibular pharmacology. State-of-the-art technologies, including *in vivo* disease models, are used to undertake integrative, cellular and molecular investigations aimed at understanding animal and human pathophysiology (and to delineate targets for novel drugs).

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Staff

Professor George Lees	Professor and Head of Department
Professor Richard Laverty	Emeritus Professor
Professor Paul Smith	Professor
A/P David Clark	Associate Professor
A/P Cynthia Darlington	Associate Professor
Dr Ian Appleton*	Senior Lecturer
Dr John Ashton	Senior Lecturer
Dr Joanne Harrison	Senior Research Fellow
Dr Steven Kerr	Senior Lecturer
Dr Rhonda Rosengren	Senior Lecturer
Dr Ivan Sammut	Senior Lecturer
Dr Yiwen Zheng	Senior Research Fellow
Dr Amy Benians	Research Fellow

* Dr Appleton died suddenly in mid 2007, but his research was integral to the Department in the 2002-6 period.

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Yiwen Zheng	Searching for answers to cognitive deficits following vestibular damage	HRC Sir Charles Hercus Research Fellowship	\$500,000
2006	Dr Rhonda J Rosengren	Development of novel therapies for ERA – breast cancer	The Breast Cancer Research Trust	\$132,769
2006	Professor Paul F Smith	Novel drug treatments for tinnitus	Garnett Passe and Rodney Williams Memorial Foundation	\$92,020
2006	Dr Rhonda J Rosengren	The combination of raloxifene and epigallocatechin gallate as a drug therapy for the prevention of breast cancer	Bequest-Martime Elizabeth Cuff Breast Cancer	\$85,240
2006	Dr Yiwen Zheng	Cannabinoid treatment for tinnitus	Deafness Research Foundation	\$76,558
2005	Dr Ivan A Sammut	Improvement of Ischaemic Cardiac Outcomes by Carbon Monoxide Treatment	National Heart Foundation	\$118,632
2005	Dr Andrew Neil Clarkson	Are we only a MIS away from treating ALS?	Neurological Foundation Philip Wrightson Postdoctoral Fellowship	\$115,588
2005	Professor George Lees	Physiological roles and therapeutic potential for histamine H3 receptors in the basal ganglia	NZ Neurological Foundation	\$98,307
2005	Dr Ian Appleton	Autoimmunity in the keloid scar: HRC Māori PhD Scholarship	HRC Fellowships and Scholarships	\$85,000
2005	Professor Paul F Smith	Effects of vestibular damage on hippocampal morphology	NZ Neurological Foundation	\$70,387
2004	Dr Yiwen Zheng	Treatment of tinnitus with NMDA receptor antagonists	NZ Neurological Foundation	\$290,869
2004	Professor George Lees	Mode of Action of Novel Anti-Convulsants	Schwarz Biosciences	\$94,700
2004	Dr Ping Liu	Contribution of arginase to learning and memory – whether and how?	NZ Neurological Foundation	\$78,689
2003	Professor Paul F Smith A Darlington	Central nervous system mechanisms of tinnitus: the contribution of GABA	Guardian Trust	\$315,865
2003	Dr Steve Kerr	A proposal to examine the therapeutic potential of isomeric forms of domoic acid	Cawthron Institute	\$200,002
2003	Dr Ping Liu	Contribution of nitric oxide synthase, arginase and cyclooxygenase to age-related memory.	NZ Neurological Foundation Project	\$106,543

2003	Professor Paul F Smith	Vestibular rehabilitation therapy for treatment of spatial memory deficits.	NZ Neurological Foundation Project	\$65,919
2003	Dr Ivan A Sammut	Flourescence Microplate reader and its hard/software for shared use	Lottery Health Research	\$50,000
2002	Dr Steve Kerr	<i>In vivo</i> and <i>in vitro</i> investigations of CNS tolerance to excitotoxins	NZ Neurological Foundation Project	\$101,146
2002	Dr Ivan A Sammut	Scintillation Counter and its hard/soft ware for shared use	Lottery Health Research	\$50,000
Total				\$2,728,234
Combined 2002-2006 income for all grants ≤ \$50,000				\$567,495
Grand Total				\$3,295,729

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Dr Ian Appleton Dr Karabi Ghose Dr Steve Kerr Professor George Lees Dr Rhonda J Rosengren Dr Nerida A Smith	Accident Compensation Corporation AgResearch Cawthron Institute Foundation for Research, Science and Technology Neuren Pharmaceuticals Otago Innovation Limited Sanofi-Synthelabo Australia Pty Ltd Seperex Limited VARNZ Ltd	
Total			\$233,713
Combined 2002-2006 income for all contracts ≤ \$20,000			\$40,228
Grand Total			\$273,941

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	9	10	16	16	16
Masters	-	-	7	8	5

*as at 1 June each year

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Dr Rosanna Rahman	Bright Futures Top Achievers Doctoral Scholarship
2006	Dr Rosanna Rahman	New Zealand Fulbright Scholarship
2006	Dr Steve Kerr	Otago University Student's Association "Top Ten Supervisors Award"
2006	Dr Yiwen Zheng	Sir Charles Hercus HRC Research Fellowship
2006	Dr IC Winburn	Health Research Council of New Zealand Clinical Research Training Fellowship
2005	Ms Wendy Imlach	McDiarmid Young Scientist of the Year Co-Finalist
2006	Dr Steve Kerr	Otago University Student's Association "Top Ten Teachers Award"
2005	Dr IC Winburn	Tony Hocken Scholarship

Publications

Book

Darlington, C. L. *The Female Brain*. Taylor and Francis, London. (2002) 211p.

Sinclair, N., & Smith, N. A. (Eds.). (2003). *2003 healthcare handbook, incorporating the OTC Medicines Guide*. Auckland: MediMedia.

Smith, P. F. *Cannabis on the Brain*. Dunmore Press, Palmerston North. (2002) 228p.

Chapter in Book

Rosengren, R. J., & Bray, B. J. (2003). Dietary retinol as a toxic substance. *Reviews in food and nutrition toxicity* (pp. 88-120). London: Taylor and Francis.

Smith, P. F. (2005). Cannabis and cannabinoids for the symptomatic treatment of multiple sclerosis. In F. Columbus (Ed.), *Treatment and management of multiple sclerosis* (pp. 155-167). New York, NY: Nova Science Publishers.

Smith, P. F. (2005). Medicinal use of cannabis: Implications for lung cancer. In R. L. Carafaro (Ed.), *Focus on lung cancer research* (pp. 193-209). New York, NY: Nova Science Publishers.

Journal Article

Abuhamdah, S., Furstner, A., Lees, G., & Chazot, P. L. (2005). Radioligand binding studies of caloposide and novel congeners with contrasting effects upon [S-35] TBPS binding to the mammalian GABA (A) receptor. *Biochemical Pharmacology*, 70(9), 1382-1388.

Adlam, V. J., Harrison, J. C., Porteous, C. M., James, A. M., Smith, R. A. J., Murphy, M. P., & Sammut, I. A. (2005). Targeting an antioxidant to mitochondria decreases cardiac ischemia-reperfusion injury. *The FASEB Journal*, 19, 1088-1095.

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Ashton, J. C., Friberg, D., Darlington, C. D., Smith, P. F. (2006). Expression of the cannabinoid CB2 receptor in the rat cerebellum: an immunohistochemical study. *Neuroscience Letters* 396(2): 113-6.

Ashton, J. C., Gliddon, C. M., Darlington, C. L., & Smith, P. F. (2003). Effect of low body temperature during unilateral labyrinthectomy on vestibular compensation in the guinea pig. *Acta Oto-laryngologica*, 123, 448-452.

Ashton, J. C., Khalessi, A., Kapoor, M., Clarkson, A., Sammut, I. A., Darlington, C. L., & Smith, P. F. (2005). Characterization of mitochondrial respiratory chain energetics in the vestibular nucleus complex [Short Communication]. *Acta Oto-Laryngologica*, 125, 422-425.

Ashton, J. C., Little, E., Muir, M., Smith, P. F., & Darlington, C. L. (2005). Mitochondrial ultrastructure and apoptotic protein expression in the vestibular nucleus complex following unilateral labyrinthectomy. *Brain Research*, 1055, 165-170.

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DEPARTMENT OF PHYSIOLOGY

The Department of Physiology is engaged in high quality, internationally-recognised physiological research focused on the three themes of membrane and ion transport, cellular and molecular neuroscience and circulation, and integrative physiology and inflammation. State-of-the-art technologies, such as transgenic mouse models, are used to undertake integrative, cellular and molecular investigations aimed at understanding animal and human physiology.

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Staff**Dr Patricia Cragg (Pat)**

Professor Allan Herbison
 Professor Tony Macknight
 Professor Tony Wheatley
 A/P John Harris
 A/P Brian Hyland
 A/P John Leader
 Dr Jennifer Bedford
 Dr Chris Bolter
 Dr Colin Brown
 Dr Grant Butt
 Dr Gerard Davis (Ged)
 Dr Kirk Hamilton
 Dr Paul Hessian
 Dr Fiona McDonald
 Dr Roly Mills
 Dr Bernhard Schmitt
 Dr Phil Sheard
 Dr Phil Ainslie
 Dr Rebecca Campbell
 Dr Phil Heyward
 Dr Christine Jasoni
 Dr Ayako Mabuchi
 Dr Charles McLaughlin
 Dr Weixing Pan
 Dr Hitomi Watanabe
 Dr Kristy Demmers
 Dr Kiho Lee
 Dr Xinhuai Liu
 Dr Victoria Scott
 Dr Aaron Sheerin
 Dr Daryl Schwenke
 Dr Bernhard McLeod
 Dr Peter Wilson

Head of Department

Research Professor
 Emeritus Professor
 Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Lecturer
 Research Fellow
 Lecturer
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Honorary Fellow
 Honorary Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Allan E Herbison	Neuroendocrine regulation of fertility	HRC – Programme	\$1,929,358
2006	Professor Allan E Herbison	Mechanisms of pulse generation in the GnRH neuronal network.	HRC – Project	\$825,429
2006	Professor Allan E Herbison	Estrogen feedback to the GnRH neuron	HRC – Project	\$818,628
2006	A/Prof Brian I Hyland	Neurophysiological basis of a novel drug treatment for Parkinson's disease	HRC – Project	\$765,928
2006	Dr Bernhard Schmitt	Electrophysiology with electroneutral transporter	Marsden Fund	\$568,890
2006	Dr Philip Ainslie	Effects of physical activity on blood flow to the brain in young and old humans	HRC Emerging Researcher First Grant	\$150,000
2006	Dr Philip Ainslie	Circadian rhythm, cerebral blood flow and nitric oxide	Marsden Fund	\$124,444
2006	A/Prof Brian I Hyland	Neurophysiological basis of a treatment for Parkinson's disease	NZ Neurological Foundation	\$123,741
2006	Professor Allan E Herbison	Neural Control of Fertility	Lottery Health Research	\$88,991
2006	Professor Antony Michael Wheatley	Role of TLR4 in renal injury following unilateral ureteral obstruction	Lottery Health Research	\$88,790
2005	Dr Paul A Hessian	CD21L and clinical outcome for rheumatoid arthritis	HRC – Project	\$958,297
2005	Dr Ayako Mabuchi	Endotoxin-stimulated liver regeneration: A new role of hepatic stellate cells?	Marsden Fund	\$671,112
2005	Professor Allan E Herbison	Starting Puberty with a Kiss (peptin)	Marsden Fund	\$653,334
2005	Rebecca E Campbell	Defining the estrogen-sensitive gonadotropin-releasing hormone neuronal network	NZ Science & Technology Postdoctoral Fellowship	\$230,655
2005	Dr Weixing Pan	Brain circuits for extinction of classic conditioning	NZ Neurological Foundation	\$116,531
2005	Professor Allan Herbison	Ovarian hormone regulation of GnRH biosynthesis	University of Massachusetts – NIH	\$114,000
2005	Dr Colin H Brown	Mechanisms of plasticity in vasopressin cell activity during dehydration	Lottery Health Research	\$100,000
2004	Dr Philip M Heyward	Timing and the sense of smell: how does the brain use time to identify an odour?	Marsden Fund	\$572,110

2004	Dr Fiona J McDonald	Murr1 – a new regulator of ion channel ubiquitination?	Marsden Fund	\$557,332
2004	Professor Anthony Dunstan MacKnight	Aqueous Humor Outflow Control and Intraocular Pressure. Year 1	University of Pennsylvania – NIH	\$289,629
2004	Professor Anthony Dunstan MacKnight	Transport by Human Ocular Ciliary Epithelial Cells	University of Pennsylvania – NIH	\$289,176
2004	A/Prof Brian I Hyland	The role of the pedunculopontine tegmental nucleus in Parkinsonism	Lottery Health Research	\$70,442
2004	A/Prof A John Harris	Specificity and activity of Ozz-E3 during myogenesis	National Institutes of Health	\$54,370
2003	A/Prof Brian I Hyland	Brain dopamine in reward-related learning	Marsden Fund	\$800,001
2003	Dr Paul Donohoe	Intrinsic hypoxia-tolerance in neurones and neuroprotection	Marsden Fund	\$88,867
2002	Professor Allan Herbison	Neural control of fertility	UK Wellcome Trust	\$2,142,900
2002	Professor Allan E Herbison	Defining the GnRH neuronal network with transgenics and viral tracers	Marsden Fund	\$394,666
2002	Dr Fiona J McDonald	Salty enough for you? Understanding epithelial sodium channel regulation	Auckland University Subcontract	\$121,731
2002	Dr Paul A Hessian	Gene expression profiles as early diagnostic and prognostic indicators for arthritis	Arthritis NZ	\$77,628
2002	Professor Antony Michael Wheatley	Free radicals in the regenerating liver	Japanese Human Science foundation	\$52,109
Total				\$12,028,853
Combined 2002-2006 income for all grants ≤ \$50,000				\$1,065,641
Grand Total				\$13,094,494

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004	Dr Adrian Grant Butt Professor Antony Wheatley	AgResearch Foundation for Research, Science and Technology Minophagen Pharmaceuticals Company Limited	
Grand Total			\$424,720

Postgraduate Students

Total Head Count [‡]	2002	2003	2004	2005	2006
PhD [*]	15	9	11	15	18
Masters	2	2	5	4	8

^{*}as at 1 June each year

[‡] these figures include students who are co-supervised by Physiology and another department(s)

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Dr Phil Ainslie	Emerging Research First Grant Award, Health Research Council
2006	Dr Phil Sheard	Fulbright Senior Scholar Award
2005	Dr Phil Donohoe	Emerging Research First Grant Award, Marsden Fund

Publications

Chapter in Book

- Brown, C. H. (2005). Autocrine modulation of excitability by dendritic peptide release from magnocellular neurosecretory cells. In M. Ludwig (Ed.), *Dendritic neurotransmitter release* (pp. 223-237). New York: Kluwer Academic.
- Herbison, A. E. (2002). Electrical properties of postnatal GnRH neurons in the mouse and their regulation by gonadal steroids. In R. J. Handa, S. Hayashi, E. Terasawa & M. Kawata (Eds.), *Neuroplasticity, development, and steroid hormone action*. (pp 177-190). Boca Raton, CRC Press.
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Journal Article

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- Adams, S., Kleinhans, F. W., Mladenov, P., & Hessian, P. A. (2003). Membrane permeability characteristics and osmotic tolerance limits of sea urchin (*Evechinus chloroticus*) eggs. *Cryobiology*, 47, 1-13.
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UNIVERSITY OF OTAGO CHRISTCHURCH

DEPARTMENT OF ANAESTHESIA

The Department of Anaesthesia has a small but active research programme. Current areas of interest include volatile anaesthetic uptake and distribution.

<http://www.chmeds.ac.nz/departments/anaesthesia/index.htm>

Staff

Professor Edward Shipton	Professor and Head of Department
Dr Seton Henderson	Clinical Senior Lecturer
Dr Ross Kennedy	Clinical Senior Lecturer
Dr Sharon King	Clinical Senior Lecturer

External Research Grants

Combined 2002-2006 income for all grants $\leq$ \$50,000 \$62,155

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	-	-	-	-	1

*as at 1 June each year

Publications

Chapter in Book

Shipton, E. A. (2005). Safety and tolerability of buprenorphine. In K. Budd & R. B. Raffa (Eds.), *Buprenorphine: The unique opioid analgesic: Pharmacology and clinical application* (pp. 102-115). Stuttgart, Germany: Georg Thieme Verlag.

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DEPARTMENT OF MEDICINE

The Department of Medicine hosts a number of very productive research groups, including:

Canterbury Respiratory Research Group

Despite high-tech medicine and a battery of new pharmaceuticals, the prevalence of asthma in New Zealand continues to increase. The Canterbury Respiratory Research Group is investigating the risk factors which might cause asthma and atopy, or inherited allergies in infants.

<http://www.chmeds.ac.nz/research/crrg/index.htm>

Christchurch Cardioendocrine Research Group (CCERG)

The CCERG is a multidisciplinary research unit (endocrinology, physiology, cardiology, biochemistry and molecular biology) focusing on neurohumoral factors involved in the regulation of blood pressure and salt/water balance, particularly with respect to their role in the pathophysiology of heart failure.

<http://www.chmeds.ac.nz/research/cardioen/index.htm>

Clinical Pharmacology Research Group

The main research focus for the group is the clinical application of pharmacology knowledge. It includes staff from the Clinical Pharmacology Department at Christchurch Hospital, the Drug Information Service and the Drug Utilisation Review Service.

<http://www.chmeds.ac.nz/research/pharmacology/index.htm>

Lipid and Diabetes Research Group

An independently funded research group, established in 1985, and based at Christchurch Hospital and the University of Otago, Christchurch. Research interests include: clinical and genetic aspects of adiponectin, vascular function in diabetes and insulin resistance, the metabolic syndrome and cardiovascular disease, the diabetes 2002 registry, morbidity and mortality in diabetes mellitus, and renal disease and diabetes.

<http://www.cdhb.govt.nz/diabetes/research.htm>



Dr Chris Pemberton and Professor Zoltan Endre

Staff**Professor Zoltan Endre**

Professor Timothy Anderson
 Professor Evan Begg
 Professor M. Gary Nicholls
 Professor Mark Richards
 Professor Russell Scott
 Professor Douglas Sellman
 Professor Tim Wilkinson
 Professor Timothy Yandle
 A/P Murray Barclay
 A/P Vicky Cameron
 A/P John Elliott
 A/P Chris Frampton
 A/P Richard Jones
 A/P Miriam Rademaker
 A/P Bridget Robinson
 A/P Bruce Taylor
 Dr Lutz Beckert
 Dr Christopher Charles
 Dr Michael Epton
 Dr John Fink
 Dr Penny Hunt
 Dr David Jardine
 Dr Sally Keeling
 Dr Steven Soule
 Dr Lisa Stamp
 Dr Richard Troughton
 Dr Leigh Ellmers
 Dr Martin Jarvis
 Dr Lynley Lewis
 Dr Michael MacAskill
 Dr Barry Palmer
 Dr Chris Pemberton
 Dr Mei Zhang

Professor and Head of Department

Professor
 Professor
 Professor
 Professor
 Clinical Professor
 Professor
 Professor
 Research Associate Professor
 Clinical Associate Professor
 Research Associate Professor
 Associate Professor
 Associate Professor
 Research Associate Professor
 Research Associate Professor
 Associate Professor
 Associate Professor
 Senior Lecturer
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Clinical Senior Lecturer
 Senior Lecturer
 Clinical Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Timothy Yandle	Variable structure and activity of B-type natriuretic peptides in heart disease	HRC – Project	\$673,899
2006	Dr Lisa Stamp	Pharmacokinetics and pharmacogenetics of methotrexate in rheumatoid arthritis	HRC – Project	\$605,543
2006	Dr Christopher Pemberton	BNP signal peptide: a novel, specific marker of acute cardiac injury	HRC Sir Charles Hercus Research Fellowship	\$499,999
2006	Dr Anna Pilbrow	Genes and hormones hold hope for heart	NZ Science & Technology Postdoctoral Fellowship	\$261,000
2006	Dr Claire Heppenstall	Maintaining independence: predicting and preventing residential home care	HRC Clinical Research Training Fellowship	\$227,962

2006	Dr Jay Ritzema-Carter	Left atrial pressure and function in heart failure	National Heart Foundation	\$165,000
2006	Professor A Mark Richards	Renal impairment in decompensated heart failure	National Heart Foundation	\$150,791
2006	Professor Zoltan Endre	Monitoring progression of diabetic kidney and cardiac disease	National Heart Foundation	\$109,342
2006	Professor Timothy Anderson	iView eye tracking system and scientific grade plasma screen	Lottery Health Research	\$105,465
2006	Dr Anna Pilbrow	Genotype and gene expression in heart failure	National Heart Foundation	\$99,781
2006	A/Prof BA Robinson	Markers of venous thromboembolism in cancer	Lottery Health Research	\$86,903
2006	A/Professor Vicky Cameron	Candidate genes for predicting clinical outcome in patients with acute coronary syndromes	National Heart Foundation Postgraduate	\$78,000
2006	Professor A Mark Richards	Renal impairment in decompensated heart failure	Canterbury Medical Research Foundation	\$66,876
2005	Professor A Mark Richards	Humoral, Ultrasonographic & Genetic Prediction and Protection in Heart Disease	HRC Programme Extension	\$3,672,281
2005	Professor Zoltan Endre	Early Intervention in Acute Renal Failure	HRC – Project	\$899,319
2005	Dr Christopher Pemberton	C-Ghrelin: a novel link between metabolic dysfunction and cardiovascular disease	HRC – Project	\$855,366
2005	Dr Christopher Charles	Adrenomedullin 2: a new effector in pressure/volume homeostasis?	HRC – Project	\$699,191
2005	A/Prof Bruce Taylor	A national prevalence study of multiple sclerosis in New Zealand	HRC	\$384,964
2005	Dr John Irvine	Genes of the renin-angiotensin system: risk factors for renal impairment and heart disease	HRC Clinical Research Training Fellowship	\$206,080
2005	Suetonia C Palmer	Vasoactive peptides in kidney disease	HRC Clinical Research Training Fellowship	\$206,080
2005	A/Prof Miriam Rademaker	The role of urocortin II in heart failure and interactions with existing therapeutic strategies	National Heart Foundation	\$131,870
2005	Dr Lisa Stamp	Targeting T cells in rheumatoid arthritis through the novel cytokine interleukin-17	Lottery Health Research	\$100,000
2005	Professor Timothy Anderson	Parkinson's disease – cognitive impairment, eye movements and brain imaging	NZ Neurological Foundation	\$82,881
2005	A/Prof J Elisabeth Wells	New Zealand survey of mental health and well being	Lottery Health Research	\$76,675

2005	Dr Christopher Pemberton	C-ghrelin links metabolism and heart disease?	National Heart Foundation	\$72,786
2005	Dr Martin Jarvis	The interaction of smoking and genotype in heart disease	Lottery Health Research	\$66,999
2005	Dr Lisa Stamp	A pilot study of high dose allopurinol in the management of gout	Canterbury Medical Research Foundation	\$61,361
2005	Dr Marcus H Heitger	Mild head injury – use of early oculomotor assessment to predict outcome	Canterbury Medical Research Foundation	\$57,185
2005	A/Prof Vicky Anne Cameron	The role of natriuretic peptides and TGF-beta in ventricular remodelling	National Heart Foundation	\$53,593
2004	Professor A Mark Richards	Urocortins II and III: physiology and therapeutic potential	HRC – Project	\$893,360
2004	Dr Richard W Troughton	Hormone-guided heart failure therapy	HRC – Project	\$772,663
2004	A/Prof Timothy J Wilkinson	Function, falls and quality of life: the PIRC trial (subcontract with University of Auckland)	Auckland University	\$397,902
2004	Dr Christopher Charles	Cardiac sympathetic nerve activity: effects of myocardial infarction, sympatholysis and novel hormones	National Heart Foundation	\$189,999
2004	Professor A Mark Richards	Clinical and neurohormonal predictors of outcome post-DC cardioversion for atrial fibrillation	National Heart Foundation	\$172,256
2004	Professor Zoltan Endre	Renal endothelial function in models of chronic renal failure	New Zealand Kidney Foundation	\$130,668
2004	Dr Timothy Prickett	Predicting endochondral growth in neonates: role of plasma NT-proCNP	Canterbury Medical Research Foundation	\$74,933
2004	Professor Zoltan Endre	Markers of progression in diabetic renal disease: new treatment targets	Lottery Health Research	\$60,002
2004	Professor Timothy Anderson	Advanced MR imaging after mild closed head injury	Canterbury Medical Research Foundation	\$59,988
2004	Dr John Fink	Haemodynamic models of cerebral blood flow and prediction of cerebral infarct geometry.	NZ Neurological Foundation	\$58,197
2004	Dr Sarah Rothwell	Resistin: A link between obesity and cardiovascular disease	Canterbury Medical Research Foundation	\$53,722
2003	Dr Michael MacAskill	Investigating and improving motor control in Parkinson's disease	NZ Science & Technology Postdoctoral Fellowship	\$218,755
2003	Michael J Epton	Genetic epidemiology of COPD	Auckland University Subcontract	\$197,245
2003	Dr Vicky Cameron	Postgraduate scholarship from the National Heart Foundation. The role of natriuretic peptides in cardiac development and organogenesis	National Heart Foundation Postgraduate	\$78,000

2002	A/Prof Richard Jones	Neuroengineering technology and procedures for investigation of the human brain and neurological disorders	Canterbury District Health Board	\$163,951
2002	Dr Mark Davis	Research fellowship Heart Foundation	National Heart Foundation Training Fellowship	\$150,000
2002	Dr Stephen Iles	Year 2 GlaxoSmithKline Respiratory Fellowship – Dr Stephen Iles	Glaxo Wellcome Research	\$106,666
2002	A/Prof Miriam Rademaker	The roles of Urocortins II and III in heart failure	National Heart Foundation	\$80,000
2002	Dr Michael MacAskill	Virtual training to improve arm control in motor disorders	Cas Van derVeer Parkinsons Research	\$65,228
2002	A/Prof Richard Jones	Neuroengineering technology and procedures for investigation of the human brain and neurological disorders	Canterbury District Health Board	\$59,838
2002	Dr Christopher Charles	Sympathetic nervous activity in circulatory disorders: Interactions with vasoactive hormones	National Heart Foundation	\$50,000
Total				\$14,790,566
Combined 2002-2006 income for all grants ≤ \$50,000				\$724,761
Grand Total				\$15,515,327

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2003-06	Professor Timothy Anderson Dr Michael J Epton Professor Zoltan Endre	Baxter Healthcare, Quintiles Pty Limited Boehringer-Ingelheim Pty Ltd Australia GlaxoSmithKline New Zealand Merck Sharp & Dohme (NZ) Limited Monitoring Force USA Inc Trident Clinical Research National Institute for Water and Atmospheric Research Pharmacia Roche Products (NZ) Ltd Pharmaceutical Research Associates Proprietary Limited Schwarz Biosciences-Quintiles Pty Limited Syft Limited	
Grand Total			\$1,928,646

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	8	13	14	13	13
Masters†	3	2	4	6	4

*as at 1 June each year

†thesis or dissertation students only

Publications

Authored Book

- Beard, M. E. J., Thwaites, J. H., Begg, E. J., Chambers, S., Colls, B. M., Jeffery, G. M., King, S., Pithie, A., Richards, D., Sainsbury, R., & Young, C. (2003). *Management guidelines for common medical conditions* (10th ed.). Christchurch, NZ: Canterbury District Health Board, 299p.
- Begg, E. J. (2003). *Instant clinical pharmacology*. Malden, MA: Blackwell Publishing, 103p.
- Beard, M. E. J., Thwaites, J. H., Chambers, S. T., Colls, B. M., Doogue, M., Jeffery, M., King, S., Merriman, E., Pithie, A., Richards, D., & Sainsbury, R. (2005). *Management guidelines for common medical conditions* (11th ed.). Christchurch, NZ: Canterbury District Health Board, 271p.
- Begg, E. J. (2002). *Preferred Medicines List and Antibiotics Guidelines* (7th ed.). Christchurch: Canterbury District Health Board, 166p.
- McAlister, H., Fink, J., Wilkinson, T., et al. (2005). *The management of people with atrial fibrillation and flutter: Evidence-based best practice guideline*. Wellington, New Zealand: New Zealand Guidelines Group. <http://www.nzgg.org.nz>.

Edited Book

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- Gardiner, S. J., Kirkpatrick, C., McCrae, E., & Shaw, E. (Eds.). (2004). *The dispensing guide 2004* (6 ed.). Wellington, New Zealand: Pharmaceutical Society of New Zealand, 73p.

Chapter in Book

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- Hanger, H. C. (2003). Information and education for people with stroke and their caregivers. *Life after stroke: New Zealand guideline for management of stroke* (pp. 53-54). Wellington: Stroke Foundation New Zealand Inc.
- Hanger, H. C. (2003). Leisure and social activities after stroke. *Life after stroke: New Zealand guideline for management of stroke* (pp. 55-56). Wellington: Stroke Foundation New Zealand Inc.
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- Nicholls, M. G., & Richards, A. M. (2004). Looking at the adrenals as a primary source. *Handbook of Hypertension: Vol. 22. Hypertension in the Twentieth Century: Concepts and Achievements* (pp. 104-122). Amsterdam: Elsevier.
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Journal Article

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- Anderson, N. E., Mason, D. F., Fink, J. N., Bergin, P. S., Charleston, A. J., & Gamble, G. D. (2005). Detection of focal cerebral hemisphere lesions using the neurological examination. *Journal of Neurology, Neurosurgery, and Psychiatry*, 76, 545-549.
- Anderson, S.D., Wong, R., Bennett, M., & Beckert, L. (2006). The world as it is. Summary of knowledge and thinking about asthma and diving since 1993. Discussion paper. *Diving and Hyperbaric Medicine*, 36:12-18.
- Anderson T.J., Heitger, M.H., & Macleod, A.D. (2006). Concussion and mild head injury. *Practical Neurology*, 6(6): 342-357.
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Intellectual Property

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Software

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Fisher, G. W., Kjellstrom, T., Woodward, A., Hales, S. E., Town, G. I., Sturman, A. P., Kingham, S., O'Dea, D., Wilton, E., O'Fallon, C., Scroggins, A., Shrestha, R., Zawar-Rewa, P., Epton, M., Pearce, J., Sturman, J., Spronken-Smith, R. A., Wilson, J. C., McLeod, S., Dawson, R., Tremblay, L., Brown, L., Eason, C., & Donnelly, P. D. (2005). *Health and air pollution in New Zealand: Christchurch pilot study*. Commissioned by Health Research Council, Ministry for the Environment & Ministry of Transport. New Zealand: National Institute of Water and Atmospheric Research.

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DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

The Department of Obstetrics and Gynaecology has a number of established research projects in progress which are funded from a variety of sources. The main themes are maternal and fetal medicine, gynaecological cancer and endocrine regulation of reproduction.

Laboratory for Cell and Protein Regulation

The theme of this laboratory's research is the characterisation of the communities of chemical factors that make up physiological systems and to describe the dynamic interactions that occur. The laboratory studies the development of uterine cancer, modulation of blood vessel activity, and hormones of the ovulatory cycle and very early pregnancy.

<http://www.chmeds.ac.nz/departments/obstetrics/research.htm>

Staff

Professor Phillipa Kyle

A/P John Evans
Dr Peter Sykes
Dr Peter Benny
Dr Rosemary Reid
Dr Iris Sin

Professor and Head of Department

Professorial Research Fellow
Senior Lecturer
Senior Lecturer
Senior Lecturer
Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	A/Prof John J Evans	Why do males die younger? Sex steroids and vaso peptides.	Canterbury Medical Research Foundation	\$54,651
2003	A/Prof John J Evans	Influence of sex steroids on endothelial cell secretion of vasoactive peptides	National Heart Foundation	\$103,300
2003	Dr Peter Sykes	The stimulation and suppression of angiogenic factors in cultured endometrial cancers	Canterbury Medical Research Foundation	\$59,932
Total				\$217,883
Combined 2002-2006 income for all grants ≤ \$50,000				\$157,906
Grand Total				\$375,789

Research Contracts

Year Approved	Contractor	Project Title	Organisation	Total \$ Approved
2005	Professor Pippa Kyle		University of British Columbia	\$68,936
Total				\$68,936

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	-	-			

*as at 1 June each year

Publications

Chapter in Book

- Cline, M. K., & Kyle, P. (2004). Caring for women in labour. In R. Jones, N. Britten, L. Culpepper, D. A. Gass, R. Grol, D. Mant & C. Silagy (Eds.), *Clinical management: Oxford textbook of primary medical care (Volume 2)* (pp. 929-932). Oxford University Press.
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DEPARTMENT OF ORTHOPAEDIC SURGERY AND MUSCULOSKELETAL MEDICINE

There are two major research themes within the Department:

Prospective clinical outcome studies – long-term prospective outcome studies on various types of total joint replacements

Reconstructive upper limb surgery for tetraplegia – changes in tendon length during postsurgical rehabilitation, development of a device for accurate measurement of joint torque, patterns of shoulder motion, wheelchair kinematics.

<http://www.chmeds.ac.nz/departments/orthopaedics/research.htm>

Staff

Professor Alastair Rothwell
Dr John McKie

Emeritus Professor and Head of Department
Senior Clinical Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Tim Woodfield	Spinal cord tissue engineering: combining olfactory cells with novel nerve guide conduits.	Canterbury Medical Research Foundation	\$67,626
Total				\$67,626
Combined 2002-2006 income for all grants ≤ \$50,000				\$16,500
Grand Total				\$84,126

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	1	-	-	-
Masters†	2	1	-	1	1

*as at 1 June each year

†thesis or dissertation students only

Publications

Journal Article

- Everts, R. J., Chambers, S. T., Murdoch, D. R., Rothwell, A. G., & McKie, J. (2004). Successful antimicrobial therapy and implant retention for streptococcal infection of prosthetic joints. *Australian and New Zealand Journal of Surgery*, 74, 210-214.
- Gooding, A., Coates, M., & Rothwell, A. (2004). Cost analysis of traditional follow-up protocol versus MRI for radiographically occult scaphoid fractures: A pilot study for the Accident Compensation Corporation. *The New Zealand Medical Journal*, 117(1201).
- Lieber, R. L., Friden, J., Hobbs, T., & Rothwell, A. (2003). Analysis of posterior deltoid function one year after surgical restoration of elbow extension. *The Journal of Hand Surgery*, 28A, 288-293.
- Rothwell, A., Sinnott, A., Mohammed, K. D., Dunn, J. A., & Sinclair, S. (2003). Upper limb surgery for tetraplegia: A 10-year re-review of hand function. *The Journal of Hand Surgery*, 28A, 489-497.
- Sharr, J. R., & Mohammed, K. D. (2003). Optimizing the radiographic technique in clavicular fractures. *Journal of Shoulder and Elbow Surgery*, 12(2), 170-172.
- Sinnott, K. A., Dunn, J. A., & Rothwell, A. G. (2004). Use of the ICF conceptual framework to interpret hand function outcomes following tendon transfer surgery for tetraplegia. *Spinal Cord*, 42(7), 396-400.
- Theis, J.-C., & Beadel, G. (2002). Changes in proximal femoral bone mineral density around a hydroxyapatite coated total hip joint prosthesis. *Journal of Bone and Joint Surgery*, 84-B((Suppl. III)), 255.
- Thwaites, J. H., Mann, F., Gilchrist, N., Frampton, C., Rothwell, A., & Sainsbury, R. (2005). Shared care between geriatricians and orthopaedic surgeons as a model of care for older patients with hip fractures. *The New Zealand Medical Journal*, 118(1214).
- Woodfield, T., Miot, S., Martin, I., van Blitterswijk, C. A., & Riesle, J. (2006). The regulation of expanded human nasal chondrocyte re-differentiation capacity by substrate composition and gas plasma surface modification. *Biomaterials*, 27(7). IF: 4.698.

Commissioned Report for External Body

- Dawson, S., Hogan, S., Kirk, R., & Paterson, M. E. (2003). *Optical biometry using partial coherence interferometry prior to cataract surgery: MSAC application 1050, assessment report*. Canberra: Department of Health and Ageing, Commonwealth of Australia, 77p.

DEPARTMENT OF PAEDIATRICS

The Department of Paediatrics has an active research programme. Long-established research interests include paediatric urology especially reflux, community child health, sudden infant death syndrome, and neonatal research. More recently the Department has developed major research interests in free radicals, respiratory medicine and cancer genetics.

Children's Cancer Research Group

The Children's Cancer Research Group is a collaboration between research teams in the Departments of Paediatrics and Paediatric Surgery and the Children's Haematology Oncology Centre. It is interested in the biology and genetics of developmental disorders, particularly in major surgical conditions.

<http://www.chmeds.ac.nz/research/dgrg/index.htm>

Staff

Professor Brian Darlow

Professor Spencer Beasley

A/P Philip Pattemore

Dr Susan Bagshaw

Dr Robin Corbett

Dr Maureen-Anne Meates-Dennis

Dr Mike Sullivan

Professor and Head of Department

Clinical Professor

Associate Professor

Senior Lecturer

Clinical Senior Lecturer

Senior Lecturer

Senior Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Michael J Sullivan	Epigenetic mechanisms in the pathogenesis of childhood cancer: neuroblastoma as a model	Child Cancer Foundation	\$102,882
2005	Professor Brian Darlow	What oxygen saturation level should we target in preterm infants? – a RCT	HRC – Project	\$592,271
2005	Professor Brian Darlow	NZ Freemasons Postgraduate Fellowship in Paediatrics	Freemason's Postgraduate Fellowship	\$61,114
2004	Dr Michael J Sullivan	Impact of drugs/nutrition on bone growth: role of CNP	Lottery Health Research	\$255,388
2004	Professor B Darlow Professor C Winterbourn	Infection, neutrophil oxidants and chronic lung disease in preterm infants	Child Health Research Foundation	\$94,177
2003	Professor Brian Darlow	International neonatal immunotherapy study (INIS): a RCT of intravenous immunoglobulin	HRC – Project	\$529,534
2003	Dr Michael J Sullivan	Donations towards research into Childhood Cancer		\$58,300
2002	Dr Mike Sullivan and Professor Tony Reeve	Intelligent data tools and microarray gene expression analysis for clinical decision making in neuroblastoma	Child Cancer Foundation	\$165,989
Total				\$1,859,655
Combined 2002-2006 income for all grants ≤ \$50,000				\$92,232
Grand Total				\$1,951,887

Research Contracts

	Total \$
Combined 2002-2006 income for all contracts ≤ \$20,000	\$5,000

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	-	-	-	-	1
Masters†	-	2	2	2	1

*as at 1 June each year

†thesis or dissertation students only

Publications

Chapter in Book

- Kasabov, N. K., Goh, L., & Sullivan, M. (2005). Integrated prognostic profiles: Combining clinical and gene expression information through evolving connectionist approach. In V. B. Bajic and T. T. Wee (Eds.), *Information processing and living systems* (pp. 695-707). London: Imperial College Press.
- Meates-Dennis, M. (2004). Bronchiolitis. In V. A. Moyer (Ed.), *Evidence-based pediatrics and child health* (2nd ed.). (pp. 319-330). London, UK: BMJ Books.
- Pattemore, P. K. (2003). Epidemiology and diagnosis of virus-induced asthma exacerbations. In S.T. Johnston & N.G. Papadopoulos (Eds.), *Respiratory infections in asthma and allergy* (pp. 43-89). New York: Marcel Dekker Inc.

Journal Article

- Anderson, N. G., Allan, R. B., & Abbott, G. D. (2004). Fluctuating fetal or neonatal renal pelvis: Marker of high-grade vesicoureteral reflux. *Pediatric Nephrology*, 19(7), 749-753.
- Anderson, N. G., Laurent, I., Cook, N., Woodward, L., & Inder, T. E. (2005). Growth rate of corpus callosum in very premature infants. *AJNR: American Journal of Neuroradiology*, 26(10), 2685-2690.
- Anderson, N. G., Warfield, S. K., Wells, S., Spencer, C., Balasingham, A., Volpe, J. J., & Inder, T. E. (2004). A limited range of measures of 2-D ultrasound correlate with 3-D MRI cerebral volumes in the premature infant at term. *Ultrasound in Medicine and Biology*, 30(1), 11-18.
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- Beasley, S. W., Williams, A. K., Qi, B.-Q., & Vleesch Dubois, V. N. (2004). The development of the proximal oesophageal pouch in the adriamycin rat model of oesophageal atresia with tracheo-oesophageal fistula. *Pediatric Surgery International*, 20, 548-550.
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Intellectual Property

- Kasabov, N. K., Futschik, M. E., Sullivan, M. J., & Reeve, A. E. (2005). Medical decision support systems utilizing gene expression and clinical information and method for use.(23910).
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DEPARTMENT OF PATHOLOGY

Research Groups with the Department of Pathology include:

Angiogenesis Research Group (ARG)

The ARG is investigating the biology of human tumours. Its research focuses on the molecular regulation of blood (angiogenesis) and lymphatic (lymphangiogenesis) vessel formation and function during human tumour growth and metastasis.

<http://www.chmeds.ac.nz/research/angiogenesis/index.htm>

Cancer Genetics Research Group

The focus of research is the cytogenetic and molecular genetic basis of human cancer. The aims of the Group are to identify new gene alterations which are relevant to the cause and/or progression of cancer, to develop a better understanding of the molecular mechanisms that determine gene rearrangements in cancer cells and to actively translate current research knowledge in these fields to clinical diagnosis.

<http://www.chmeds.ac.nz/research/cancergenetics/index.htm>

Christchurch Haematology Research Group

The Christchurch Haematology Research Group is developing better methods for the diagnosis and treatment of malignancy, auto-immunity and infectious diseases. It is supported by the departments of Haematology, Immunology, and Surgery.

<http://www.chmeds.ac.nz/research/haematology/index.htm>

Free Radical Research Group (FRRG)

Free radical research is one of the Pathology Department's major research interests. The FRRG consists of biochemists and cell biologists undertaking a range of interrelated research projects on aspects of oxidative stress and antioxidant action.

<http://www.chmeds.ac.nz/research/freerad/aboutus.htm>

Gene Structure and Function Laboratory

Much of the current research centres on the areas of psychiatric genetics and pharmacogenetics (the impact of genetic variation on responses to drugs). The laboratory's psychiatric genetics research is a collaboration with Professor Peter Joyce in the Department of Psychological Medicine.

<http://www.chmeds.ac.nz/research/gsfl/index.htm>

Liver Sieve Research Group

This research team is interested in the fine vessels of the liver and the role these may play in human disease.

<http://www.chmeds.ac.nz/research/liversieve/index.htm>

Staff

Professor David Murdoch

Professor Stephen Brennan
 Professor Peter George
 Professor Christine Winterbourn
 Professor Stephen Chambers
 Emeritus Professor Robin Fraser
 A/P Martin Kennedy
 A/P Tony Kettle
 A/P Christine Morris
 Dr Christopher Florkowski
 Dr Stephen Fox
 Dr Peter Ganly
 Dr Mark Hampton
 Dr Lance Jennings
 Dr Andrew Miller
 Dr John O'Donnell
 Dr Nigel Patton
 Dr Margret Vissers
 Dr Suzanne Benjes
 Dr Margaret Currie
 Dr Sheryl Gough
 Dr Alexander Peskin
 Dr Juliet Pullar
 Dr Rebecca Roberts
 Dr Revathy Senthilmohan
 Dr Peter Elder
 Dr Barry Hock
 Dr John Lewis
 Dr Judith McKenzie
 Dr Ursula Jewel
 Dr Patrick McHugh
 Dr Grant McKenzie

Professor and Head of Department

Clinical Professor
 Clinical Professor
 Professor
 Professor
 Emeritus Professor
 Research Associate Professor
 Research Associate Professor
 Research Associate Professor
 Clinical Senior Lecturer
 Clinical Senior Lecturer
 Senior Lecturer
 Senior Research Fellow
 Clinical Senior Lecturer
 Senior Lecturer
 Clinical Senior Lecturer
 Clinical Senior Lecturer
 Senior Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow
 Honorary Research Fellow
 Honorary Research Fellow
 Honorary Research Fellow
 Honorary Research Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow



Professor Christine Winterbourn and Associate Professor Tony Kettle

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	A/ Prof Martin A Kennedy	Pharmacogenomics of antidepressant drugs	HRC – Project	\$682,555
2006	Professor Stephen Chambers	Breath test for aspergillus: role of 2-pentylfuran	HRC – Project	\$645,850
2006	Professor Christine C Winterbourn	Turning within cardiac excitation-contraction coupling and nitrosative/oxidative effects	Auckland Uniservices Ltd	\$96,000
2006	A/ Prof Martin A Kennedy	Neurogenomics of drug exposure: Focus on methamphetamines and benzylpiperazines	ESR Scholarship	\$75,000
2006	A/Prof CM Morris	Cancer Genetics Research Group	Cancer Society West Coast Division	\$68,250
2006	Dr Rebecca L Roberts	GLI Genes as risk factors for susceptibility to ulcerative colitis	Lottery Health Research	\$57,772
2006	A/Prof Anthony James Kettle	Vacuum Concentrator System for Biomedical Research	Lottery Health Research	\$53,960
2006	Professor Stephen Chambers	Breath testing for infection and lung injury	Lottery Health Research	\$50,000
2005	Associate Professor Martin A Kennedy	Novel protein markers of antidepressant effects.	HRC – Project	\$521,505
2005	Dr Gabi Dachs	Horseradish peroxidase-activated Paracetamol as gene therapy of cancer	Cancer Society	\$291,779

2005	Sarah Cuddihy	Identifying cellular sensors of oxidative stress	NZ Science & Technology Postdoctoral Fellowship	\$230,667
2005	Dr Margaret Currie	Tie2 receptor tyrosine kinase; a potential target for the anti-vascular agent DMXAA	Cancer Society	\$199,785
2005	Dr Judy McKenzie	Grant-in-aid toward purchase of analytical flow cytometer	Lottery Health Research	\$165,000
2005	Dr Sheryl M Gough	Characterisation of novel gene rearrangements in leukaemia	Canterbury Medical Research Foundation Fellowship	\$159,999
2005	A/Prof Christine Morris	Exploring associations of chromosome 8q gain with breast cancer pathogenesis	Cancer Society	\$144,850
2005	Professor Stephen Chambers	Detection of volatiles in breath for the diagnosis of <i>Pseudomonas</i> and <i>Aspergillus</i> infections	National Child Health Research Foundation	\$133,638
2005	A/ Prof Martin A Kennedy	Pharmacogenetics of antidepressant response: a novel candidate gene	Canterbury Medical Research Foundation Project	\$68,635
2004	Professor Christine Winterbourn	Oxidant, antioxidants and inflammatory disease	HRC – Project	\$2,791,000
2004	Dr Rebecca L Roberts	Pharmacogenomics of thiopurine drug metabolism	NZ Science & Technology Postdoctoral Fellowship	\$224,667
2004	A/ Prof Christine Morris	Breast cancer genetics: aetiology and clinical application	Cancer Society	\$167,929
2004	A/ Prof Christine Morris	The Diagnostic Potential of a Novel Chromosomal Imbalance Associated with Breast Cancer	Lottery Health Research	\$100,000
2004	Professor C Winterbourn Professor B Darlow	Infection, neutrophil oxidants and chronic lung disease in preterm infants	Child Health Research Foundation	\$94,177
2004	Dr Margaret Jane Currie	Doctoral Scholarship - Yu-Jen Chen	Scholarship – AGMARDT	\$88,778
2004	Sarah P Gunningham	The role of neuropilin-1, a novel vascular endothelial growth factor receptor, in cancer	Genesis Oncology Trust	\$60,920
2004	Sarah P Gunningham	Neuropilin as an indicator of colorectal disease	Canterbury Medical Research Foundation	\$60,000
2004	Dr Sheryl M Gough	Novel chromosome breakpoints, leukaemia genes and their clinical significance	Genesis Oncology Trust	\$55,908
2003	Dr Margret Vissers	Myeloperoxidase-derived oxidants and apoptosis	HRC – Project	\$836,470
2003	Dr Mark B Hampton	Thiol proteomics & the regulation of cell death	HRC Sir Charles Hercus Research Fellowship	\$400,000

2003	A/ Prof Christine Morris	Genetic profiling of breast cancer	Cancer Society Project	\$305,250
2003	Dr Mark B Hampton	Thiol proteomics and the regulation of cell death	HRC Sir Charles Hercus Research Fellowship	\$99,996
2003	Dr Suzanne Marie Benjes	Array detection of genomic deletions associated with BCR_ ABLI leukaemia	Canterbury Medical Research Foundation Project	\$70,001
2003	A/Professor Martin Kennedy	Allelic expression patterns of genes implicated in mental illness	NZ Lottery Grants Board PhD Scholarship	\$69,000
2003	A/ Prof Christine Morris	Ken & Lucia Scarlett Postgraduate Scholarship in Cancer Research	Ken & Lucia Scarlett Postgraduate Scholarship in Cancer Research	\$57,000
2002	Professor Christine C Winterbourn	Neuophil oxidant and chronic lung disease in preterm infants.	Lottery Health Research	\$107,312
2002	Robyn G Midwinter	Postgraduate scholarship	National Heart Foundation Postgraduate	\$78,000
2002	Dr Judy McKenzie	A vaccine for the treatment of bowel cancer	Bowel Cancer Project Canterbury Medical Research Foundation	\$70,071
Total				\$9,381,724
Combined 2002-2006 income for all grants ≤ \$50,000				\$919,252
Grand Total				\$10,300,976

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Professor Stephen Chambers Dr Mark B Hampton Dr Judy McKenzie A/Prof Anthony Kettle	Astrazeneca AB Department of Primary Industries Victoria Fonterra Research Centre Ltd New Zealand Institute of Crop & Food Research Syft Limited	\$773,147
Combined 2002-2006 income for all contracts ≤ \$20,000			\$30,000
Grand Total			\$803,147

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	16	15	16	21	21
Masters†	4	1	2	2	2

*as at 1 June each year

† thesis or dissertation students only

Publications

Authored Book

Beard, M. E. J., Thwaites, J. H., Begg, E. J., Chambers, S., Colls, B. M., Jeffery, G. M., King, S., Pithie, A., Richards, D., Sainsbury, R., & Young, C. (2003). *Management guidelines for common medical conditions* (10th ed.). Christchurch, NZ: Canterbury District Health Board, 299p.

Beard, M. E. J., Thwaites, J. H., Chambers, S. T., Colls, B. M., Doogue, M., Jeffery, M., King, S., Merriman, E., Pithie, A., Richards, D., & Sainsbury, R. (2005). *Management guidelines for common medical conditions* (11th ed.). Christchurch, NZ: Canterbury District Health Board, 271p.

Pollard, A. J., & Murdoch, D. R. (2003). *The high altitude medicine handbook* (3rd ed.). Oxon, UK: Radcliffe Medical Press, 193p.

Edited Book

Begg, E., Barclay, M., Vella-Brincat, J., Gardiner, S. J., Doogue, M., McDermott, L., Pugh-Williams, D., Chambers, S., & Murdoch, D. (Eds.). (2004). *Preferred Medicines List* (8th ed.). Christchurch: The Caxton Press, 172p.

Delahunt, B., George, P. M., Kenwright, D. N., Bethwaite, P. B., Gillis, D., Graves, D., Zheluk, A., Harvey, M., & Johnson, C. (Eds.). (2004). *The Royal College of Pathologists of Australia Manual: Use and interpretation of pathology tests* (4th ed.). Australia: RCPA.

Chapter in Book

Buss, I. H., Winterbourn, C. C., & Armstrong, D. A. Protein carbonyl measurement by ELISA. In *Free Radicals and Antioxidants Protocols, Volume 186, Totowa*. The Humana Press Inc, Gainesville, Florida (2002) 123-128.

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Kennedy, M. A., Rogers, G. R., & Joyce, P. R. (2004). Pharmacogenetics of antidepressants and mood stabilisers. In P. R. Joyce & P. B. Mitchell (Eds.), *Mood disorders: Recognition and treatment* (pp. 223-237). Sydney, Australia: The University of New South Wales Press Ltd.

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Winterbourn, C. C. (2003). Radical scavenging by thiols: Biological significance and implications for redox signaling and antioxidant defense. In C. Gitler & A. Danon (Eds.), *Cellular implications of redox signaling* (pp. 175-190). London: Imperial College Press.

Journal Article

Aldridge, R. E., Chan, T. P., Van Dalen, C. J., Senthilmohan, R., Winn, M., Venge, P., Town, G. I., & Kettle, A. J. Eosinophil peroxidase produces hypobromous acid in the airways of stable asthmatics. *Free Radical Biology and Medicine* 33(6):847-856 (2002).

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DEPARTMENT OF PSYCHOLOGICAL MEDICINE

Within the Department of Psychological Medicine there are a number of very active research groups. These include the:

Canterbury Suicide Project

A research project into suicidal behaviour in people of all ages. The project was initiated in 1991 and major research interests include: youth, adult and older adult suicide, risk and protective factors in suicidal behaviour, suicide prevention, the impact of suicide on close family members, national suicide prevention strategies, restriction of access to methods of suicide.

<http://www.chmeds.ac.nz/research/suicide/index.htm>

Christchurch Health and Development Study (CHDS)

The CHDS has been in existence for more than a quarter of a century. During this time it has followed the health, education and life progress of a group of 1,265 children born in the Christchurch urban region during mid 1977. This cohort has now been studied from infancy into childhood, adolescence and adulthood.

<http://www.chmeds.ac.nz/research/chds/index.htm>

Mental Health Clinical Research Unit (MHCRU)

This Unit is involved in studies on depression, bipolar affective disorder (manic depression), bulimia nervosa and anorexia nervosa. Future studies are also likely on social anxiety disorders.

<http://www.chmeds.ac.nz/departments/psychmed/clinical.htm>

National Addiction Centre (NAC)

This national centre is dedicated to developing and promoting effective interventions for people with alcohol, drug and addiction related problems in Aotearoa New Zealand.

<http://www.chmeds.ac.nz/departments/psychmed/treatment/index.html>

Staff**Professor Roger Mulder**

Professor David Fergusson
 Professor Douglas Sellman
 Professor Peter Joyce
 A/P Annette Beutrais
 A/P Philip Brinded
 A/P Marie Crowe
 A/P Chris Frampton
 A/P Suzanne Luty
 A/P Richard Porter
 Dr Simon Adamson
 Dr Caroline Bell
 Dr Paul Edgar
 Mr John Horwood
 Dr Dominic Lim
 Dr Janice McKenzie
 Dr Stephanie Moor

Professor and Head of Department

Professor
 Professor
 Professor
 Associate Professor
 Clinical Associate Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Associate Professor
 Senior Lecturer
 Senior Lecturer
 Senior Research Fellow
 Senior Research Fellow
 Clinical Senior Lecturer
 Senior Lecturer
 Senior Lecturer

Dr Lois Surgenor	Senior Lecturer
Dr Fraser Todd	Senior Lecturer
Dr Mark Wallace-Bell	Senior Lecturer
Dr Bill Watkins	Senior Lecturer
Mr Trevor Carlyle	Lecturer
Dr Mark Davis	Research Fellow
Ms Daryle Deering	Lecturer
Dr Jane Elmslie	Research Fellow
Ms Maree Inder	Research Fellow
Ms Jenny Jordan	Research Fellow
Ms Virginia Maskill	Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Peter R Joyce	The extent and determinants of burden in caregivers of patients diagnosed with bipolar affective disorder – Gama Fellowship	Gama Research Fellowship	\$142,100
2006	Professor David Fergusson	Childhood exposure to family violence and later parenting risk	University of Canterbury	\$72,921
2005	Dr Janet D Carter	Psychotherapy factors related to outcome in depression.	HRC – Project	\$399,592
2005	A/ Prof Richard Porter	Efficacy of Mifefristone (RU -486) in the treatment of bipolar depression	University of Newcastle Upon Tyne Sub-contract	\$127,138
2005	Dr Caroline Bell	Randomised controlled trial of computerised CBT for anxiety	Canterbury Medical Research Foundation	\$74,537
2005	Dr Mark Wallace-Bell	Pre-Quit nicotine replacement therapy (PQNIQ)	Auckland Uniservices Ltd Subcontract	\$52,316
2004	Professor David Fergusson	Longitudinal studies of mental health and psychosocial wellbeing	HRC Programme	\$2,564,999
2004	Professor Peter R Joyce	Mental health clinical research	HRC Programme	\$1,536,000
2004	Ms Nicola Poa	The role of antipsychotic medication in the prevalence of type 2 diabetes in New Zealand Māori	HRC – Project	\$545,780
2004	Professor David Fergusson	Consortium of longitudinal studies of substance abuse and substance abuse disorders	Duke University Sub-contract	\$67,797
2003	Professor Peter R Joyce	The molecular genetics and pharmacogenetics of depression	HRC – Project	\$1,146,490
2003	Professor Peter R Joyce	A randomised clinical trial of interpersonal social rhythms psychotherapy in young people with bipolar disorder	HRC – Project	\$925,091
2003	A/Prof Annette Beautrais	Analysis of study of impact of suicide on close family members	HRC – Project	\$55,822
2003	A/Prof Annette Beautrais	Putting up the barriers: evaluation of the Grafton Bridge “experiment”	HRC – Project	\$40,304

2002	Ms Nicola Poa	The genetic basis of diabetes in New Zealand Māori	HRC Eru Pomare Fellowship	\$150,000
2002	Dr Janet D Carter	Psychotherapy for depression: a comparison of two cognitive treatments	Lottery Health Research	\$125,390
Total				\$8,026,277
Combined 2002-2006 income for all grants ≤ \$50,000				\$357,774
Grand Total				\$8,384,051

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004-06	Professor Timothy Anderson Mr Paul James Robertson Professor Douglas Sellman	Alcohol Advisory Council of New Zealand Antipodean Biotechnology Ltd Ministry of Health	\$3,727,540
Combined 2002-2006 income for all contracts ≤ \$20,000			\$25,666
Grand Total			\$3,753,206

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	15	20	17	16	16
Masters†	9	8	14	13	13

*as at 1 June each year

†thesis or dissertation students only

Publications

Authored Book

Fergusson, D., Horwood, J., Ridder, E., & Grant, H. (2005). *Early Start : Evaluation report*. Christchurch, New Zealand: Early Start Project, 129p.

Edited Book

Joyce, P. R., & Mitchell, P. B. (Eds.). (2004). *Mood disorders: Recognition and treatment*. Sydney, Australia: The University of New South Wales Press Ltd, 528p.

Chapter in Book

Beautrais, A. L. M. (2003). Methodological issues in suicide research: Application of case control and cohort designs in the study of suicidal behaviours. In L. Vijayakumar (Ed.), *Suicide prevention: Meeting the challenge together* (pp. 68-78). Hyderabad, India: Orient Longman.

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DEPARTMENT OF PUBLIC HEALTH AND GENERAL PRACTICE

Research Groups within the Department of Public Health and General Practice include:

General Practice Group

The group is involved in undergraduate and postgraduate teaching, and in research into many areas of primary health care in New Zealand.

<http://www.chmeds.ac.nz/departments/genprac/index.htm>

Māori/Indigenous Health Institute (MIHI)

The opening of this Institute represents a major milestone in the development of Māori focused teaching and research. Research interests include: the undergraduate medical curriculum, the Community Cardiac Study, resilient indigenous health workforce networks, quality and health outcomes for Māori, addiction and Māori health.

<http://www.chmeds.ac.nz/departments/pubhealth/mihi.htm>

New Zealand Health Technology Assessment (NZHTA)

The NZHTA assists health and disability services through the production and dissemination of evidence-based information. This facilitates better decisions on health policy and purchasing, service management, and clinical practice.

<http://nzhta.chmeds.ac.nz/>

Public Health Group

Public Health is the study and practice of preventing disease, prolonging life and promoting the health of the population through the organised efforts of society. Front line practitioners include health promoters and educators, public health doctors and nurses, and staff working in occupational health and environmental protection. Other public health practitioners are involved in research, co-ordination and management of services, and the formation and evaluation of health policy.

<http://www.chmeds.ac.nz/departments/pubhealth/index.htm>

Staff

Professor Leslie Toop

Professor Ann Richardson
A/P Pauline Barnett
A/P Elisabeth Wells
Dr Cheryl Brunton
Dr Claire Dowson
Dr Matea Gillies
Dr Patrick Graham
Dr Philip Hider
Dr Derelie Mangin
Dr Ian Sheerin
Dr Rob Weir
Ms Gillian Abel
Ms Marita Broadstock
Dr Carolyn Doughty
Dr Liza Fitzgerald
Ms Tania Huria
Ms Suzanne Pitama
Dr Paul Robertson

Professor and Head of Department

Professor
Associate Professor
Research Associate Professor
Senior Lecturer
Senior Research Fellow
Clinical Senior Lecturer
Senior Research Fellow
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Research Fellow
Lecturer
Research Fellow
Research Fellow
Lecturer
Lecturer
Lecturer
Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Ms Suzanne Pitama	The Māori Community Heart Study	HRC – Project	\$1,919,504
2006	Dr Derelie Mangin	Stable primary care depression: maintenance vs gradual withdrawal of fluoxetine	HRC – Project	\$1,703,116
2006	Dr Patrick Graham	Hospital Outcomes Project	Research Trust of Victoria University of Wellington	\$458,696
2006	Dr Juliet Rumball-Smith	Quality of public hospital care for Māori and NZ Europeans in Christchurch, New Zealand	HRC Clinical Research Training Fellowship	\$235,311
2006	Mr Richard Smaill	The implications of having a disability and ageing	HRC Disability Research Placement Programme	\$85,000
2006	Ms Gillian Abel	The Impact of the PRA on the health and safety practices of sex workers	Ministry of Justice	\$81,095
2005	Dr Robert Weir	Provision of evidence-based reports to support policy decisions	Ministry of Health	\$1,494,915
2005	Dr Robert Weir	National Serosurvey of vaccine preventable diseases	Ministry of Health	\$1,229,786
2005	Mr Paul Robertson	Resilient indigenous health workforce networks: constructing an international framework	HRC Partnership Programme	\$893,962
2005	Ms Gillian Abel	The impact of PRA on the health and safety practices of sex workers	HRC – Project	\$584,511
2005	Ms Suzanne Pitama	Feasibility Study to Determine Cardiovascular Health in Māori Communities	HRC – Project	\$132,876
2005	Dr Patrick Graham	Improved Methodology for Constructing, Evaluating and Analysing synthetic datasets	Statistics New Zealand	\$81,149
2005	A/Prof Elizabeth Wells	New Zealand survey of mental health	Lottery Health	\$76,675
2005	Dr Derelie Mangin (nee Richards)	Investigation of antibiotic resistance in women with urinary tract infection	Lottery Health Research	\$62,683
2005	Dr Robert Weir	Screening review for colorectal cancer review	Ministry of Health	\$57,886
2003	Dr Elizabeth W Plumridge	Building attachment in communities affected by transience and residential mobility	Centre for Research, Evaluation and Social Assessment Project Grant	\$149,993
2002	Ms Suzanne Pitama	Development & pilot of the Ngāi Tahu needs and ambitions tool	Ngāi Tahu	\$62,129
Total				\$9,309,288
Combined 2002-2006 income for all grants ≤ \$50,000				\$306,052
Grand Total				\$9,615,340

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2003-06	Dr Patrick Graham Dr Raymond Kirk Dr Robert Weir A/Professor J Elisabeth Wells	Accident Compensation Corporation Auckland Uniservices Commonwealth of Australia Foundation for Research, Science and Technology Health Research Council of NZ Ministry of Health New Zealand Institute of Crop & Food Research University of Auckland	\$1,444,666
Grand Total			\$1,444,666

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	4	4	4	4	2
Masters†	8	6	8	9	16

*as at 1 June each year

†thesis or dissertation students only

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Dr Ian Sheerin	Te Amorangi National Māori Health Award for Academic Excellence

Publications

Edited Book

Dew, K., & Davis, P. (Eds.). (2005). *Health and society in Aotearoa New Zealand* (2nd ed.). Melbourne, Australia: Oxford University Press, 308p.

McMaster, K., & Wells, A. (Eds.). (2003). *Innovative approaches to stopping family violence*. Wellington: Steele Roberts Limited, 280p.

Oakley Browne, M.A., Wells, J.E., & Scott, K.M. (Eds.). (2006). *Te Rau Hinengaro: The New Zealand Mental Health Survey*. Wellington: Ministry of Health, 280p.

Chapter in Book

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- Oakley Browne, M.A., & Wells, J.E. (2006). Introduction. In M.A. Oakley Browne, J.E. Wells & K.M. Scott (Eds.), *Te Rau Hinengaro: The New Zealand Mental Health Survey* (pp. 1-17). Wellington: Ministry of Health.
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Peer Reviewed Report

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DEPARTMENT OF RADIOLOGY

The Department of Radiology has a small but active research programme. Recent research projects include: the development of a national thoracic stent database to collect and assess data from all implants performed in New Zealand; the development of new detectors that have applications in medical imaging; and investigations of clinical outcomes in infants with renal pelvis dilatation.

<http://www.chmeds.ac.nz/departments/radiology/index.htm>

Staff

Professor Timothy Buckenham **Clinical Professor and Head of Department**

Awards and Scholarships

Year	Researcher	Award/Scholarship
2006	Dr Anthony Butler	The RHT Bates Postgraduate Scholarship awarded by the Royal Society of New Zealand

Publications

Journal Article

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- Wright, I. A., Laing, A. D., & Buckenham, T. M. (2004). Coronary subclavian steal syndrome: Non-invasive imaging and percutaneous repair. *The British Journal of Radiology*, 77(917), 441-444.

DEPARTMENT OF SURGERY

The major research interest in the Department of Surgery is *Helicobacter* research. Other research interests in the Department include SIFT technology, colorectal research and laparoscopic surgery, dendritic cell research, and vascular research.

Helicobacter Research Group

Research centres on the gastric pathogen *Helicobacter pylori* and the role it may play in gastric cancer and inflammatory bowel disease. Investigations of *Mycobacterium avium* subsp. paratuberculosis in the aetiology and pathogenesis of Crohn's disease are also underway.

<http://www.chmeds.ac.nz/research/helicobacter/index.htm>

Staff

Professor Frank Frizelle	Professor and Head of Department
Professor Michael Ardagh	Professor
Professor Spencer Beasley	Clinical Professor
Professor Justin Roake	Professor
A/P Philip Bagshaw	Associate Professor
Dr Randall Allardyce	Senior Lecturer
Dr Jacqui Keenan	Senior Research Fellow
Dr John McKie	Clinical Senior Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2005	Dr Jacqui Keenan	Host iron levels and <i>H. pylori</i> pathogenesis: what is the link?	Cancer Society	\$56,759
2004	Dr Dejan Arsic	Developmental gene expression in the pathogenesis and treatment of childhood cancer	NZ Science & Technology Postdoctoral Fellowship	\$222,667
2004	A/Prof Philip Bagshaw	Prospective, randomised, clinical study comparing laparoscopic & open surgery for colon cancer	HRC – Project	\$188,323
2003	Dr Jacqui Keenan	Vesicle-associated DNA: a novel signaling mechanism between <i>Helicobacter pylori</i> and gastric epithelium	Marsden Fund	\$88,888
2002	Dr Jacqui Keenan	Non-pylori <i>Helicobacters</i> , IBD and colon cancer	Bowel Cancer Project Canterbury Medical Research Foundation	\$87,023
Total				\$643,660
Combined 2002-2006 income for all grants ≤ \$50,000				\$94,476
Grand Total				\$738,136

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004-05	Dr Jacqui I Keenan Professor Justin Roake	Foundation for Research, Science and Technology Merck Sharp & Dohme (NZ) Limited New Zealand Institute of Crop & Food Research Syft Limited	\$267,476
Combined 2002-2006 income for all contracts ≤ \$20,000			\$38,606
Grand Total			\$306,082

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	2	2	3	3
Masters†	-	1	2	4	3

*as at 1 June each year

†thesis or dissertation students only

Publications

Edited Book

Najmaldin, A., Rothenberg, S., Crabbe, D. C. G., & Beasley, S. (Eds.). (2005). *Operative endoscopy and endoscopic surgery in infants and children*. London: Hodder Arnold, 496p.

Chapter in Book

- Ardagh, M. W. (2004). Ethics of resuscitation. In P. Cameron, G. Jelinek, A.-M. Kelly, L. Murray, A. F. T. Brown & J. Heyworth (Eds.), *Textbook of adult emergency medicine* (2nd ed.). (pp. 33-37). Edinburgh: Churchill Livingstone.
- Ardagh, M. W., & Gee, P. (2004). Lacerations and minor emergency department surgery. In G. W. O. Fulde (Ed.), *Emergency medicine: The principles of practice* (4th ed.). (pp. 222-228). Sydney, Australia: Churchill Livingstone.
- Arnold, E. P. Urinary storage and voiding. In *The Pelvic Floor*. J.Pemberton, M. Swash and M.M.Henry (Eds.) W B Saunders, London (2002) 29-45.
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- Beasley, S. (2005). Percutaneous endoscopic gastrostomy. In A. Najmaldin, S. Rothenberg, D. C. G. Crabbe, & S. Beasley (Eds.), *Operative endoscopy and endoscopic surgery in infants and children* London: Hodder Arnold.
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- Roake, J. A. (2003). Managing waiting lists. In R.D.C. Gauld (Ed.), *Continuity amid chaos: Health care management and delivery in New Zealand* (pp. 103-121). Dunedin: Otago University Press.

Journal Article

- Allardyce, R. A. The New Zealand Liver Transplant Unit. *The New Zealand Medical Journal* 115(1159):U127 (2002).
- Allardyce, R.A., Langford, V.S., Hill, A.L., & Murdoch, D.R. (2006). The rapid evaluation of bacterial growth and antibiotic sensitivity in blood cultures by selected ion flow tube mass spectrometry (SIFT-MS). *Diagnostic Microbiology and Infectious Disease*, 55:255-261.
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- Ardagh, M. (2006). The case for a New Zealand Acute Care Strategy. *New Zealand Medical Journal*, 119(1247).
- Ardagh, M., & Richardson, S. K. (2004). Emergency department overcrowding - Can we fix it? *The New Zealand Medical Journal*, 117(1189).
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CENTRE FOR POSTGRADUATE NURSING STUDIES

The Centre for postgraduate Nursing Studies has three major research groups.

Health Status and Health Outcomes over the Life Course

This group studies the distribution, causes and outcomes of disease, illness and risk factors. Research addresses prevalence and incidence of symptoms, epidemiology of ill-health, aetiology and innovative management of chronic disease, lay efforts to reduce health inequalities, evaluation of prevention programmes, health of vulnerable groups in urban and rural areas, and impact assessments by health professionals.

Service Delivery and Health

The aims of this group are to evaluate the comparative safety, effectiveness, cost effectiveness and acceptability of methods of providing health and social care, with the intention of improving outcomes or experiences for patients or clients.

Management of Long-Term Conditions

The focus of this research group is the development of evidence-based healthcare to minimise the impact of chronic health needs on people's lives. Research explores symptom experience, risk assessment, preventive care and symptom control issues, with particular emphasis on the enhancement of patient self-management strategies.

<http://www.chmeds.ac.nz/departments/pgradnursing/index.htm>

Staff

Ms Beverley Burrell	Senior Lecturer and Director
A/P Marie Crowe	Research Associate Professor
Angela Bradley	Senior Lecturer
Dr Shelagh Dawson	Senior Lecturer
Dr Mary-Jo Gagan	Senior Lecturer
Gill Halksworth-Smith	Senior Lecturer
Dr Lisa Whitehead	Senior Lecturer
Lorraine Ritchie	Lecturer

External Research Grants

	Total \$
Combined 2002-2006 income for all grants ≤ \$50,000	\$37,660

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	2	2	3	3
Masters†	6	6	11	15	15

*as at 1 June each year

† thesis or dissertation students only

Publications

Journal Article

- Burrell, B. A. (2003). Mixed-sex rooms - invading patients' privacy? *Kaitiaki Nursing New Zealand*, 9(4), 26-28.
- Dawson, S.I., Hogan, S., Kirk, R., & Paterson, M. (2005). Optical Biometry. *MSAC Reference* 1050.
- Dawson S.I., Weir, R., Hogan, S., & Bidwell, S. (2005). QuantiFERON-TB Gold, *MSAC Reference* 1058.
- Dawson, S.I. (2004). Long-term risk of malignant neoplasm associated with gestational glucose intolerance. *Cancer*, 100, 149-155.
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DUNEDIN SCHOOL OF MEDICINE

DEPARTMENT OF GENERAL PRACTICE

The Department co-ordinates the Royal New Zealand College of General Practitioners Research Group, a group of international standing and one that is renowned for its general practice research in areas such as asthma, diabetes, acute infections, and health service utilisation. The Department also has an extensive programme of clinical research in osteoporosis, occupational health, geo-informatics, research databases, health economics, health services research and research design.

<http://dnmeds.otago.ac.nz/departments/gp/index.html>

Staff

A/P Jim Reid	Associate Professor and Head of Department
Professor Murray Tilyard	Professor
A/P Susan Dovey	Research Associate Professor
Dr Wayne Cunningham	Senior Lecturer
Dr Patrick Farry	Senior Lecturer
Dr Martyn Williamson	Senior Lecturer
Dr Hamish Wilson	Senior Lecturer
Dr Chrystal Jaye	Senior Lecturer
Dr Peter Cardon	Professional Practice Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2005	Dr Chrystal Jaye	Spiritual wellbeing in Aotearoa (New Zealand) palliative cancer care	Genesis Oncology Trust	\$91,380
2002	Dr Isobel Martin	RNZCGP Research Unit	NZ Health Information Services	\$278,994
Total				\$370,374
Combined 2002-2006 income for all grants ≤ \$50,000				\$120,331
Grand Total				\$490,705

Research Contracts

	Total \$
Combined 2002-2006 income for all contracts ≤ \$20,000	\$20,599

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	2	2	1	3	2
Masters	7	8	1	3	3

*as at 1 June each year

Publications

Book

- Lenfant, C., Khaltaev, N., Reid, J. J., et al. (Eds.). (2005). *Pocket guide to COPD diagnosis, management, and prevention: A guide for health care professionals*. Denmark: Global Initiative for Chronic Obstructive Lung Disease, 30p.
- MacLeod, R., Vella-Brincat, J., & Macleod, A. D. (2004). *The palliative care handbook* (2nd ed.). New Zealand: Genesis Oncology Trust, 133p.

Chapter in Book

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- MacLeod, R. D. (2003). Psychosocial care for non-malignant disease. In M. Lloyd-Williams (Ed.), *Psychosocial issues in palliative care* (pp. 119-133). Oxford University Press.

Journal Article

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DEPARTMENT OF MEDICAL AND SURGICAL SCIENCES

The Department of Medical and Surgical Sciences was established in 1999 to facilitate multidisciplinary interactions by six specialities to enhance teaching and research output.

Professor Robert Walker **Professor and Head of Department**

ANAESTHESIA AND INTENSIVE CARE

Research activity in the Anaesthesia and Intensive Care Section relates mainly to the following topics: clinical pharmacology, clinical outcomes in the ICU, physiology of the critically ill and evidence-based practice.

<http://dnmeds.otago.ac.nz/departments/mss/anaesthesia/index.html>

Staff

Dr Geoff Laney **Head of Section and Clinical Senior Lecturer**
 Dr Matthew Zacharias Clinical Senior Lecturer
Plus 16 other Clinical Senior Lecturers

External Research Grants

	Total \$
Combined 2002-2006 income for all grants ≤ \$50,000	\$85,202

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
Masters	-	-	-	-	1

Awards and Scholarships

Year	Researcher	Award/Scholarship
2003	Dr Mathew Zacharias	Rupert Hornabrook Prize for excellence in research in the field of Day Care Anaesthesia. Awarded by Australian and New Zealand College of Anaesthetists' Day Care Anaesthesia Group

Publications

Chapter in Book

Zacharias M., & Chirnside R. (2006). Anaesthesia for eye, ENT and dental surgery (Chapter 21). In A. Maller & T. Pederson (Eds.). *Evidence-Based Anaesthesia and Intensive Care*. Cambridge: Cambridge University Press.

Journal Article

Fawcett, J. P., Kennedy, J., Kumar, A., Ledger, R., Kumara, R., Patel, M., & Zacharias, M. Comparative efficacy and pharmacokinetics of racemic bupivacaine and S-bupivacaine in third molar surgery. *Journal of Pharmacy and Pharmaceutical Sciences* 5(2):199-204 (2002).

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BIOETHICS CENTRE

The Bioethics Centre was established in response to a growing awareness of new ethical issues relating to law, medicine and technology. The Centre, which has an international reputation, aims to encourage and co-ordinate teaching and research, to stimulate informed public debate, and to provide a consultation and resource service for health professionals and others in the community. Research interests in the Centre are diverse and include: medical ethics; ethics of emerging biotechnologies such as stem cell research, genetics and the new reproductive techniques; the ethical dimensions of resource allocation; cross-cultural and international ethics; philosophy of medicine, neuroscience and psychiatry; alternative medicine; animal ethics; clinical practice ethics; and research ethics. The Centre also plays a prominent role in national and international affairs in Bioethics.

<http://dnmeds.otago.ac.nz/departments/mss/bioethics/index.html>

Staff

Professor Donald Evans

Professor Grant Gillett

A/P Jing-Bao Nie

Dr Neil Pickering

Dr Lynley Anderson

Dr Sandy Elkin

Ms Claire Gallop

Dr Dana Wensley

Professor and Head of Section

Professor

Associate Professor

Senior Lecturer

Lecturer

Lecturer

Lecturer

Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Jing-Bao Nie	Predicaments of Social Engineering: The Ideology and Ethics of China's Planned Reproduction Program	Marsden Fund	\$474,624
2003	Professor Donald M Evans	Clarification and evaluation of Māori beliefs and perspectives concerning genetic biotechnologies: Ethical impacts of genetic technologies in New Zealand	FRST: PGST	\$1,093,289
2003	Dr Jing-Bao Nie	The Forgotten Atrocities: Ethical Challenges and Socio-cultural Dimensions of Japanese Doctors' (in)Human Experimentation in Wartime China	Marsden Fund	\$88,889
Total				\$1,656,802
Combined 2002-2006 income for all grants ≤ \$50,000				\$19,445
Grand Total				\$1,676,247

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	4	5	5	6	7
Masters	18	12	16	12	12

*as at 1 June each year

Publications

Authored Book

Brenner, B., Gillies, J., & Pickering, N. (2004). *The ethics of health informatics*. Auckland, New Zealand: Mediflex Press, 174p.
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 Nie, J.-B. (2005). *Behind the silence: Chinese voices on abortion*. Lanham, ML, USA and Oxford UK: Rowman and Littlefield, 293p.
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- Wensley, D. (2004). *Acceptable limits of reproductive genetics: A discussion of ethical principles and regulatory mechanisms of control*. Commissioned by New Zealand Law Foundation. Dunedin, New Zealand: Bioethics Centre, University of Otago.

Submissions

- Henaghan, M. & Wensley, D. (2004) Submission to the National Ethics Committee on Assisted Human Reproduction: 'Guidelines for preimplantation genetic diagnosis in New Zealand'. Dunedin, New Zealand: University of Otago, pp.20.

MEDICINE

Collaborative research projects link the Section of Medicine with others in the University of Otago, including the Christchurch and Wellington Schools of Medicine, as well as other universities in New Zealand and around the world. Areas of particular research strength include: rheumatic diseases, gastroenterological diseases, endocrinology, kidney disease, diabetes research, bone fractures in children and obesity, cardiac disease, falls in the elderly, cancer and respiratory illnesses.

<http://dnmeds.otago.ac.nz/departments/mss/medicine/index.html>

Staff

Professor John Highton

Professor John Campbell
 Professor Terence Doyle
 Professor Ailsa Goulding
 Professor Jim Mann
 Professor Robin Taylor
 Professor Robert Walker
 Professor Mike Lean
 A/P David Gerrard
 A/P David Perez
 A/P Patrick Manning
 A/P Clare Robertson
 A/P Gerard Wilkins
 A/P Michael Williams
 A/P Cheuk-Kit Wong
 Dr Kirsten Coppel
 Dr Graeme Hammond-Tooke
 Dr Hitoshi Nukada
 Dr Martin Schlup
 Dr Michael Schlutz
 Dr Simon Stebbings
 DR Wayne Sutherland
Plus 11 clinical Senior Lecturers

Professor and Head of Section

Professor
 Professor
 Professorial Research Fellow
 Professor
 Professor
 Professor
 Professor
 Associate Dean (Student Affairs)
 Associate Professor
 Clinical Associate Professor
 Research Associate Professor
 Associate Professor
 Clinical Associate Professor
 Associate Professor
 Senior Research Fellow
 Senior Lecturer
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor D Robin Taylor	Predicting Response to Corticosteroids in COPD using Exhaled Nitric Oxide	HRC – Project	\$374,177
2006	Professor Jim Mann	Karitane Senior Research Fellow	The Trustees of the University of Otago Foundation Trust	\$371,614
2006	Dr Robert J MacGinley	Does high salt diet lead to a rapid deterioration in vascular compliance?	National Heart Foundation Project	\$105,482
2006	A/Prof Gerard T Wilkins	W & GS Dick Fellowship – Dr Natalie van Havre	Southland Medical Foundation	\$105,113
2006	Christopher Sean Booker	Lifestyle over and above drugs in diabetes (LOADD) study	National Heart Foundation Postgraduate	\$78,000
2004	Dr Nathalie van Havre	The effect of selenium supplementation on clinical outcome in high risk cardiac patients with coronary heart disease.	Anderson & Telford Charitable Trust	\$90,543
2004	Dr Patrick Manning	Antioxidant treatment and the metabolic syndrome	HRC – Project	569,692
2003	Professor Robert J Walker	Renal effects of lithium therapy in bipolar disorders	HRC – Project	\$894,115
2003	Dr Wayne H F Sutherland	Effect of meals rich in saturated fat and canola oil on postprandial levels of pro-inflammatory cytokines and interleukin-8 in obese subjects	National Heart Foundation	\$144,720
2003	Dr Michael J A Williams		Dunedin Heart Unit Trust	\$60,000
2003	Dr Hitoshi Nukada	Neurological Research	Nukada Medical and Biological Institute	\$59,412
2003	Professor A John Campbell	Masonic Postgraduate Fellowships: Dr Philippa Carter	Freemason's Postgraduate Fellowship	\$58,513
2003	Professor Ailsa Goulding	Bone Health Research	K.L. Stewart Bequest	\$55,000
Total				\$2,966,381
Combined 2002-2006 income for all grants ≤ \$50,000				\$572,504
Grand Total				\$3,538,885

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Funded
2002-06	Professor Ailsa Goulding Professor Anthony B Molteno Professor D Robin Taylor Professor Andre M van Rij Dr Mark H Walton A/Professor Gerard T Wilkins	Accident Compensation Corporation Cardiology Research Fund CG Surgical Healthcare Otago Charitable Trust Kognition Consulting Limited National Institute of Health Seattle Institute of Cardiac Research Smith & Nephew Endoscopy Inc (Acufex Microsurgical) Southland Medical Foundation	\$2,258,048
Combined 2002-2006 income for all contracts ≤ \$20,000			\$41,138
Grand Total			\$2,299,186

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	1	-	-	-

*as at 1 June each year

Publications

Authored Book

Campbell, A., Gillett, G., & Jones, G. (2005). *Medical ethics* (4 ed.). Melbourne, Australia: Oxford University Press, 312p.
Gerrard, D. F. (2005). Medical issues related to swimming. In J. M. Stager & D. A. Tanner (Eds.), *Handbook of sports medicine and science: Swimming* (2nd ed.). (pp. 115-127). Oxford, UK: Blackwell Publishing.

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Aebli, N., Krebs, J., Davis, G., Walton, M. H., Williams, M. J. A., & Theis, J-C. Fat embolism and acute hypotension during vertebroplasty: An experimental study in sheep. *Spine* 27(5):460-466 (2002).
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Working Paper; Discussion Paper; Technical Report

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OPHTHALMOLOGY

The Ophthalmology Section has a very active research focus. Major research areas include: The Otago Glaucoma Surgery Outcome Study, Internet based medical education, and UV photography of the cornea, and long-term follow-up of orbital implants.

<http://dnmeds.otago.ac.nz/departments/mss/ophthalmology/index.html>

Staff**Professor Anthony Molteno**

Mr Gordon Sanderson
Dr Rodney Keillor
Dr David Peart
Dr Mylan van Newkirk
Plus 5 Clinical Lecturers

Professor and Head of Section

Senior Lecturer
Clinical Senior Lecturer
Clinical Senior Lecturer
Clinical Senior Lecturer

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
Masters				-	-

Publications

Book Chapter

Molteno, A.C.B., & Bevin, T.H. (2006). The Use of Molteno Implants to Treat Complex Cases of Glaucoma. In T. Shaarawy and A. Mermoud (Eds.). *Atlas of Glaucoma Surgery*. (Chapter 7). New Delhi: Jaypee Medical Publishers.

Journal Article

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Creative Work

- Blanc, J. P., Sims, J. L., & Molteno, A. C. B. (2003). The adventures of Ms Blue Pus. *Survey of Ophthalmology*, 48, 568.

ORTHOPAEDIC SURGERY

Research interests in the Orthopaedic Surgery Section include: orthopaedic surgery and joint replacement, spinal and scoliosis surgery, paediatric surgery, joint arthroplasty, hand and upper limb surgery, cartilage repair, and the development of bioabsorbable orthopaedic implants. There are also two commercially funded units within the Department, both of which have as their prime interests, the reactions of tissues to surgical implants.

<http://dnmeds.otago.ac.nz/departments/mss/orthopaedic/index.html>

Staff

A/P Jean-Claude Theis	Associate Professor and Head of Section
A/P Anthony Poole	Associate Professor
Mr Michael Chin	Clinical Senior Lecturer
Mr John Dunbar	Clinical Senior Lecturer
Mr David Gwynne-Jones	Senior Lecturer
Mr Bruce Hodgson	Clinical Senior Lecturer
Mr John Matheson	Clinical Senior Lecturer
Mr Simon McMahon	Clinical Senior Lecturer
Dr Mark Walton	Senior Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2003	A/Professor C Anthony Poole	Development of mesenchymal stem cell therapies in a cartilage repair model	HRC – Project	\$1,381,312
2002	A/Professor C Anthony Poole	HRC Fellow Support	HRC	\$74,784
Total				\$1,456,096
Combined 2002-2006 income for all grants ≤ \$50,000				\$74,867
Grand Total				\$1,530,963

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	-	-	-	-
Masters	-	-	-	-	1

*as at 1 June each year

Publications

Journal Article

- Aebli, N., Krebs, J., Davis, G., Walton, M. H., Williams, M. J. A., & Theis, J-C. Fat embolism and acute hypotension during vertebroplasty: An experimental study in sheep. *Spine* 27(5):460-466 (2002).
- Aebli, N., Krebs, J., Schwenke, D. O., Davis, G., & Theis, J-C. (2003). Cardiovascular changes during multiple vertebroplasty with and without vent-hole: An experimental study in sheep. *Spine*, 28(14), 1504-1512.
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- Gwynne Jones, D.P., Dunbar, J.D., & Theis, J.C. (2006). Late presenting dislocation of sonographically stable hips. *Journal of Pediatric Orthopedics B* 15(4):257-61
- Gwynne Jones, D. P., Hodgson, B. F., & Hung, N. A. (2004). Bilateral, uncemented total hip arthroplasty in osteopetrosis. *The Journal of Bone & Joint Surgery*, 86-B(2), 276-278.

- Gwynne Jones, D.P., Locke, C., Pennington, J., & Theis, J.C. (2006). The effect of sagittal laxity on function after posterior cruciate retaining total knee replacement. *Journal of Arthroplasty* 21(5):719-23
- Gwynne-Jones, D. P., Theis, J. C., Jeffery, A. K., & Hung, N. A. (2005). Long-term follow-up of a recurrent multifocal desmoid tumour treated with tamoxifen: A case report. *Journal of Orthopaedic Surgery*, 13(2), 174-177.
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- McGlashan, S.R., Haycraft, C.J., Jensen, C.G., Yoder, B.K., & Poole, C.A. (2006). Articular and growth plate defects are associated with chondrocyte cytoskeletal abnormalities in Tg737orp mice lacking the primary cilia protein polaris. *Matrix Biology* 26: 234-246.
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- Oakley, A. P., & Matheson, J. A. (2003). Rapid osteolysis after revision hip arthroplasty in Paget's disease. *Journal of Arthroplasty*, 18(2).
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Commissioned Report for External Body

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- Theis, J.-C. (2003). *Best practice evidence-based guideline: Acute management and immediate rehabilitation after hip fracture amongst people aged 65 years and over*. Commissioned by Ministry of Health. Wellington: NZGG, 26p.
- Theis, J.-C. (2003). *Best practice evidence-based guideline summary: Prevention of hip fracture amongst people aged 65 years and over*. Commissioned by Ministry of Health. Wellington: NZGG, 4p.

SURGERY

The Section of Surgery has two major research units:

The Otago Clinical Audit and Outcomes Research Group

The Unit promotes the development of clinical audit within the surgical profession and develops systems for evaluating longer term outcomes in clinical practice. Developing and enhancing software to support these processes has also been a dominant role of the Unit. The Unit has produced significant research focusing on the process of surgical audit including risk stratification in outcome assessment.

<http://dnmeds.otago.ac.nz/departments/mss/surgery/research.html#audit>

The Vascular Research Group

Primary research interests include the genetic basis of different forms of vascular disease, elucidation of the early processes in the formation of atherosclerosis, identification of circulating markers of vascular susceptibility and/or post-interventional outcome, novel (non-surgical) approaches to the treatment of aneurysm disease, and the pathophysiology of venous disease.

<http://www.otago.ac.nz/ouaudit/>

Staff

General Surgery

Professor Andre van Rij	Professor and Head of Section
Dr Michael Hunter	Senior Lecturer
Dr Greg Jones	Senior Research Fellow
Mr Michael Landmann	Senior Lecturer
Mr Mark Thompson-Fawcett	Senior Lecturer
Mr Julian Hayes	Senior Lecturer
Mr Thomas Elliott	Clinical Senior Lecturer
Dr Ross Pettigrew	Clinical Senior Lecturer
Mr Ian Thomson	Clinical Senior Lecturer
Mr Alastair Yule	Clinical Senior Lecturer
Dr Stephen Packer	Clinical Reader

Cardiothoracic Surgery

Dr Richard Bunton	Clinical Senior Lecturer
Dr Ivor Galvin	Clinical Senior Lecturer

Neurosurgery

Professor Grant Gillett	Professor
Dr Suzanne Jackson	Clinical Senior Lecturer
Dr David McDowell	Clinical Senior Lecturer

Otolaryngology and Head and Neck Surgery

Dr Patrick Dawes	Senior Lecturer
Mr Martyn Fields	Clinical Senior Lecturer
Mr Dean Ruske	Clinical Senior Lecturer
Mr Jamie Ryan	Clinical Senior Lecturer

Urology

Mr Kampta Samalia	Clinical Senior Lecturer
Mr Narayanan Sampangi	Clinical Senior Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2005	Dr Ian Winburn	Protective effects of carbon monoxide following renal transplant ischaemic injury	HRC Clinical Research Training Fellowship	\$135,076
Total				\$135,076
Combined 2002-2006 income for all grants ≤ \$50,000				\$167,567
Grand Total				\$302,643

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	4	4	4	4	3
Masters	2	3	3	4	4

*as at 1 June each year

Publications

Authored Book

Fletcher, J, van Rij, A. M., et al. (2005). *Prevention of venous thromboembolism: Best practice guidelines for Australia and New Zealand* (3rd ed.). Australia: Health Education & Management Innovations.

The National Thrombosis Working Party, including van Rij, A. M. (2004). *Diagnosis and treatment of venous thromboembolism: Best practice guidelines for Australia and New Zealand*. Australia: HEMI.

Chapter in Book

Danne, P. D., Hunter, M. H., & MacKillop, A. D. F. (2004). Airway control. *Trauma* (5 ed.). (pp. 177-198). New York: McGraw-Hill Companies.

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Journal Article

Amer, M., Thomson, I., Pettigrew, R., Packer, S., Hill, G., Christie, R., Jones, G. T., & Van Rij, A. M. (2005). A blinded randomised controlled trial of patch closure over the ligated saphenofemoral junction to prevent varicose vein recurrence: Preliminary results. *The New Zealand Medical Journal*, 118(1215).

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- van Rij, A.M. (2006). Varicose Veins. *British Journal of Surgery* 93:131-132.
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DEPARTMENT OF PATHOLOGY

Areas of current research activity in the Department include: cancer biology, with particular emphasis on the molecular genetics of embryonic renal tumours, tumour suppressor gene function, in particularly p53, cancer vaccine development, mitotic spindle checkpoint control and the role of mismatch repair genes, developmental biology with emphasis on the development of the kidney and renal diseases, the genetics of bipolar disorder and the effects of mood stabilising drugs. Much of the research is multidisciplinary in approach, is clinically relevant, and involves collaboration with clinical and scientific colleagues in other Departments within the School, University or elsewhere in New Zealand, as well as international links.

The Department houses six research groups: the Molecular Genetics Laboratory, the Molecular Pathology Group, the Cancer Research Laboratory, the Cell Transformation Group, the Developmental Genetics Group and the Clinical Genetics Group.

<http://dnmeds.otago.ac.nz/departments/pathology/research.html>

Staff

A/P Dave Loten

Professor Antony Braithwaite
Professor Michael Eccles
Professor Han-Seung Yoon
A/P Peter Schwartz
Dr Jim Faed
Dr Julia Horsfield
Dr Noelyn Hung
Dr David Markie
Dr Janice Royds
Dr Antje van der Linden
Dr Gail Williams
Dr Alison Fitches

Associate Professor and Head of Department

Professor
Research Professor
Professor
Associate Professor
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Lecturer

Dr Shujie He	Research Fellow
Dr Aaron Jeffs	Research Fellow
Dr Cherie Stayner	Research Fellow
Dr Adele Woolley	Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Antony Braithwaite	Live or let die: importance of cell death for tumour prevention by p53	Marsden Fund	\$773,335
2006	Dr Janice A Royds	Telomere maintenance and the improved management of gliomas	Cancer Society	\$65,500
2005	Dr Janice A Royds Professor Antony Braithwaite	Gliomas – from concept to clinic	Cancer Society	\$65,226
2004	Professor Antony Braithwaite	Therapeutics and diagnostic markers of cancer: from bench to clinic	HRC Programme	\$4,042,999
2004	Professor Michael R Eccles	Novel therapeutic targets for polycystic kidney disease	HRC – Project	\$829,754
2004	Professor Robin J Olds	Following leads to bipolar disorder susceptibility	Lottery Health Research	\$116,173
2003	Professor Michael R Eccles	Cancer Research	Cancer Research Fund	\$166,500
2003	Dr Aaron Jeffs	Shared equipment for gene expression profiling	Lottery Health Research	\$80,000
2002	Professor Tony Reeve, H-S Yoon, Parry Guilford, J McCall, N Kasabov, M W Thompson-Fawcett, A Merrie	Predicting colorectal cancer outcome using gene expression profiling	HRC – Project	\$1,446,807
2002	Professor Michael R Eccles	Genetic linkage analysis of a Southland family with glomerulonephritis	Healthcare Otago	\$72,306
Total				\$7,874,678
Combined 2002-2006 income for all grants ≤ \$50,000				\$359,972
Grand Total				\$8,234,650

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2003-04	Professor Michael R Eccles Dr Janice A Royds	Otago Innovation Limited University of Waikato	\$344,039
Grand Total			\$344,039

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	4	5	5	8	7
Masters	-	-	-	1	2

*as at 1 June each year

Publications

Edited Book

Schwartz, P. L., & Webb, G. (eds). *Assessment - Case Studies, Experience and Practice from Higher Education*. Kogan Page Limited, United Kingdom (2002) 196p.

Chapter in Book

- Braithwaite, A. W., & Edwards, S. J. (2003). The p53 pathway, cancer and aging. In S. C. Kaul & R. Wadhwa (Eds.), *Aging of cells in and outside the body* (pp. 121-149). UK: Kluwer Academic.
- Eccles, M. R. (2004). PAX2 and the renal-coloboma syndrome. In C. J. Epstein, R. P. Erickson & A. Wynshaw-Boris (Eds.), *Inborn errors of development: The molecular basis of clinical disorders of morphogenesis* (pp. 633-642). Oxford University Press.
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Journal Article

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- Caspi, A., Moffitt, T. E., Cannon, M., McClay, J., Murray, R., Harrington, H., Taylor, A., Arseneault, L., Williams, B., Braithwaite, A., Poulton, R., & Craig, I. W. (2005). Moderation of the effect of adolescent-onset cannabis use on adult psychosis by a functional polymorphism in the catechol-O-methyltransferase gene: Longitudinal evidence of a gene X environment interaction. *Biological Psychiatry*, 57(10), 1117-1127.

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- Clark, P., Dziarmaga, A., Eccles, M. R., & Goodyer, P. (2004). Rescue of defective branching nephrogenesis in renal-coloboma syndrome by the caspase inhibitor, Z-VAD-fmk. *Journal of the American Society of Nephrology*, 15, 299-305.
- Delve, P., Lau, M., Yun, K., & Walker, R. J. (2003). Omeprazole-induced acute interstitial nephritis. *New Zealand Medical Journal*, 116(1169).
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- Discenza, M. T., He, S., Lee, T. H., Chu, L. L., Bolon, B., Goodyer, P., Eccles, M. R., & Pelletier, J. (2003). WT1 is a modifier of the Pax2 mutant phenotype: Cooperation and interaction between WT1 and Pax2. *Oncogene*, 22(50), 8145-8155.
- Doughty, C. J., Wells, J. E., Joyce, P. R., Olds, R. J., & Walsh, A. E. (2004). Bipolar-panic disorder comorbidity within bipolar disorder families: A study of siblings. *Bipolar Disorders*, 6, 245-252.
- Dziarmaga, A., Clark, P., Stayner, C-A. K., Julien, J. P., Torban, E., Goodyer, P., & Eccles, M. R. (2003). Ureteric bud apoptosis and renal hypoplasia in transgenic PAX2-Bax fetal mice mimics the renal-coloboma syndrome. *Journal of the American Society of Nephrology*, 14(11), 2767-2774.
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DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE

The Department of Preventive and Social Medicine constitutes one of the leading centres for public health research in Australasia. There are a number of major research groups within the Department including:

Injury Prevention Research Unit

The Department's research on injury prevention is focused in the Injury Prevention Research Unit (IPRU). Several projects within IPRU's programme of work involve departmental staff (i.e. non- IPRU staff) performing co-investigator roles.

The IPRU, established in 1990, was initially funded by the Health Research Council (HRC) of New Zealand and the Accident Compensation Corporation (ACC). The goal of the IPRU is to undertake research that will contribute to reducing the incidence, severity, and consequences of injury in New Zealand.

HRC and ACC have continued to provide "core" support for the IPRU throughout its history. Support from HRC has been obtained via a competitive peer reviewed programme grant. IPRU is entirely reliant on research ("soft") funding money for its existence. IPRU has recently (2007) secured a new HRC programme grant and new core contract from ACC. For the period 2004-2006 inclusive, IPRU had 44 research contracts, involving 25 clients, worth over \$8m in income.

The current staffing levels are: 1 Professor, 2 Associate Professors, 3 Senior Research Fellows, 8 Research Fellows, 13 Assistant Research Fellows, 22 Research Assistants (mainly part-time in the field). Disciplines covered by these staff include: epidemiology, biostatistics, data management and programming, behavioural science, biomechanics, disability, and health services.

<http://www.otago.ac.nz/ipru/>

Dunedin Multidisciplinary Health and Development Research Unit

The Dunedin Multidisciplinary Health and Development Study (DMHDS) began when 1037 babies born between 1 April 1972 and 31 March 1973 were followed up at the age of three. Since then, they have been assessed at 5, 7, 9, 11, 13, 15, 18, 21, 26, and most recently in 2003-5 at the age of 32. During an assessment phase, Study Members come back to Dunedin from all over the world and participate in a variety of tests, surveys, and interviews.

The main research focus of the DMHDRU is human development over the lifecourse. Other studies include parents of the original Study Members (Family Health History Study), parenting behaviours of Study Members (Parenting Study), and will include children of Study Members (Next Generation Study). The research will provide ground-breaking information across three generations of the same families.

The HRC has provided core support for the DMHDS throughout its history. In addition, various assessment phases of the DMHDS have also received funds from multiple branches of the National Institutes of Health (USA), and more recently from the British Medical Research Council.

In the last five years, income from competitive programme grants has totaled approximately NZ \$10 million. DMHDRU has most recently been awarded new grants from the British Medical Research Council for Phase 38, and the American National Institute of Mental Health for a collaborative project to discover "gene x environment interactions" involving the DMHDRU, Christchurch Health and Development Studies, and two British cohorts. In addition, the American National Institute for Dental and Craniofacial Research appears likely to award Professor Murray Thomson new money for oral health work.

Approximately a dozen researchers currently work within DMHDRU and approximately 20 investigators are located off-site, both within New Zealand and internationally. Areas of expertise beyond those mentioned above include longitudinal research methodology, epidemiology, psychology, science communication and translational research, and project management. At any one time, approximately 6 PhD students are being trained by DMHDRU investigators, with two to three times that number of Masters (or equivalent) students.

<http://dunedinstudy.otago.ac.nz/>

Hugh Adam Cancer Epidemiology Unit

The Hugh Adam Cancer Epidemiology Unit has been based in the Department of Preventive and Social Medicine since 1987.

The goal of the Hugh Adam Cancer Epidemiology Unit is to conduct high quality research into the causes, impact, burden and consequences of cancer with a particular focus on the causes and consequences of cancer in New Zealand. The HACEU is involved in several national and international studies of the causes, impact, burden and consequences of cancer as well as assessments of cancer incidence, mortality and survival in New Zealand. Many projects involve other members of staff of the department and unit staff are also co-investigators for cancer research initiated by other members of the Department.

The current staffing levels are: 1 Associate Professor (medical), 1 Research Fellow (medical), 1 Study Administrator, 1 Interviewer, and 1 Secretary. Professor Ann Richardson of the Department of General Practice and Public Health, Otago University Christchurch is an honorary member of the Unit. Staff of the Unit also currently supervise 2 PhD students and 2 Masters students. The disciplines covered by the staff include: medical epidemiology, biostatistics, public health medicine and cancer screening.

http://www.otago.ac.nz/research/centres/res_cen_hughadam.html

Hauora Māori – The Ngāi Tahu Māori Health Research Unit

Rangahau hauora Māori (Māori health research) has been a very important part of the research portfolio of the Department. It has occurred in the main in two distinct thrusts: firstly, that research undertaken by the Ngāi Tahu Māori Health Research Unit which is a research unit within the Department; and secondly, as an aspect of research undertaken by other research units or researchers within the Department.

The Ngāi Tahu Māori Health Research Unit was established in 1995 as result of a partnership between the Faculty of Medicine and the then Ngāi Tahu Development Corporation. The Ngāi Tahu Development Corporation provided funding for the new research unit to support the position of a Māori health research fellow for 6 years. The Department provided the office facilities. An establishment grant of \$250,000 was provided by the HRC, which provided for the establishment of a further research fellow for three years. The Director of the Unit was a full-time academic staff member. The goal of the Ngāi Tahu Māori Health Research Unit is to contribute to the body of knowledge on Māori health that will lead to positive health outcomes for Māori and their *whānau*.

The current staffing levels are: 1 Associate Professor and 2 Senior Research Fellows. Disciplines covered by these staff include: epidemiology, mental health, injury prevention, oral health and the Māori health component of the Dunedin Multidisciplinary Health and Development Study.

http://www.otago.ac.nz/research/centres/res_cen_maorihealth.html

AIDS Epidemiology Group

The AIDS Epidemiology Group was established within the Department in 1989 by Professors David Skegg and Charlotte Paul. Since that time it has been funded through the Ministry of Health to undertake national surveillance of HIV infection and AIDS. Dr Nigel Dickson has worked with the Group since 1990 and in recent years has been the Director. Other members of the Group are Ms Sue McAllister (Research Assistant), Professor Charlotte Paul (Epidemiologist) and Dr Katrina Sharples (Biostatistician).

The main role of the Group has been to develop, and when appropriate continue to apply, appropriate methods to monitor the epidemic of HIV/AIDS in New Zealand. Consequently, over the years it has had a dual role in surveillance research and service in the area of HIV/AIDS.

Social and Behavioural Research Cancer Unit

The Department's research on social and behavioural aspects of cancer is focused in the Social and Behavioural Research in Cancer Unit (SBRCU).

The SBRCU was established in 1990 (Professor Ellwood and A/Prof McGee) through funding from the Cancer Society of New Zealand Inc. (CSNZ). Since 1998, Dr Tony Reeder has been responsible for day-to-day leadership, with Associate Professor McGee as co-investigator. A 2007 external review produced very positive findings about research quality and productivity relative to staff size.

The Cancer Society has provided core support since 1990, supplemented by commissioned research and researcher-initiated competitive grant applications. The SBRCU depends entirely on grant funding for its survival. SBRCU research has been funded by a range of agencies including the CSNZ, HRC, Health Sponsorship Council, Ministry of Health and Lottery Health. As stated in the Strategic Plan, the SBRCU goal is "to continue to be the leading group in social and behavioural research in cancer prevention and control in New Zealand."

The current staffing is: 1 Associate Professor, 1 Senior Research Fellow, 2 Post-doctoral Fellows, 1 Assistant Research Fellow and 1 Research Support Staff. Projects also involve Departmental staff who are not SBRCU members, as well as postgraduate students and external collaborators. Disciplines covered by these staff include health promotion, behavioural science, cancer prevention, physical activity, tobacco control, solar ultraviolet radiation (UVR) research (including skin cancer control and vitamin D) and issues around spirituality. The current programme of research and a complete list of all staff and postgraduate students, publications and other outputs is available from:

<http://www.otago.ac.nz/sbrcg>

New Zealand Pharmacovigilance Centre (NZPhvC)

In 1965 New Zealand implemented a national medicines surveillance scheme based in the University of Otago, in the Department of Pharmacology. This centre became one of the founding members of the World Health Organisation (WHO) International Drug Monitoring Programme when it was established in 1968.

In 2002 the Centre for Adverse Reactions Monitoring (CARM), which is the national spontaneous reporting programme established in 1965, was renamed the New Zealand Pharmacovigilance Centre, in order to better reflect the type of work undertaken. The Intensive Vaccine Monitoring Programme (IVMP) was developed in 2003 to monitor the safety of the vaccine (MeNZB™) during roll out of the national Meningococcal B Immunisation Programme from 2004. All three programmes actively collect data relating to the usage and safety of medicines in NZ.

The NZPhvC receives the majority of its funding from the Ministry of Health and works under contract to Medsafe (the medicines regulator in NZ) primarily to provide pharmacosurveillance through the CARM programme and specific projects under the IMMP. The IMMP has received additional unconditional donations from various sources including pharmaceutical companies. The current staffing levels in the NZPhvC are 3 Senior Research Fellows, 3 Research Fellows, 8 General staff.

<http://carm.otago.ac.nz/index.asp?link=carm>

National Poisons Centre

The National Poisons Centre (NPC) was established at the University of Otago in 1964. Funded under contracts with the Ministry of Health and the ACC, it delivers an important national health service. The NPC operates a 24 hour free phone advice line for the management of poisonings. Currently it handles about 32,000 calls per year. The centre also maintains web based databases for the management of poisonings (TOXINZ www.toxinz.com), an antidote database (NZOAD www.antidote.co.nz) and a poisoning prevention website (www.poisons.co.nz) which was launched last year by the Minister of Health.

The NPC provides NZ specific advice to government agencies including the Prime Minister's office, Ministry of Health, ERMA, Police, Department of Labour, Fire Service, Commerce Commission, Defence Force, Civil Defence, Coroner's office and Food Safety Authority. Locally staff of the NPC are members of the Hazardous Substances Technical Liaison Committee and Emergency Services Executive Coordinating Committee.

Internationally, the NPC is a participant in the WHO International Programme on Chemical Safety INTOX programme. INTOX is a network of global poison centres. The primary role of this group is to contribute relevant expertise and experience in the preparation and review of poisons information monographs (PIMs), the establishment of methodologies for recording case data and compiling files on local products and the strengthening of poison information centres worldwide. There are currently 14 staff in the NPC.

<http://dnmeds.otago.ac.nz/departments/psm/poison/index.html>

New development: Centre for International Health

A McAuley Chair in International Health has just been established through the Leading Thinkers Initiative and the Sisters of Mercy. A steering group and reference group have been set up to support the Chair and the Centre. The Ministry of Health has contracted with the Department to establish a fixed-term position to provide advice to the Ministry during the term of New Zealand's membership of the Executive Board of the World Health Organization (until 2010).

Staff

A/P Rob McGee

Professor John Langley
 Professor Margaret McCredie
 Professor Charlotte Paul
 Professor Richie Poulton
 A/P John Broughton
 A/P David Chalmers
 A/P Colin Cryer
 A/P Brian Cox
 A/P Robin Gauld
 A/P Peter Herbison
 A/P Sheila Williams
 Dr Jo Baxter
 Dr Dorothy Begg
 Dr Melanie Bell
 Dr Nigel Dickson
 Dr John Dockerty
 Dr Hilda Firth
 Dr Bob Hancox
 Dr Mira Harrison-Woolrych
 Dr Geraldine Hill
 Dr Rachael MacLean
 Dr David McBride
 Dr Shyamala Nada-Raja
 Dr Martin Pollock
 Dr Patricia Priest
 Dr Tony Reeder
 Dr Ruth Savage
 Dr Katrina Sharples
 Dr Tai Sopoaga
 Dr Michael Tatley
 Dr Michael Beasley
 Dr Peter Davidson
 Dr Sarah Derrett
 Mr Andrew Gray
 Dr Vicki Livingstone
 Dr Lianne Parkin
 Ms Jean Simpson
 Dr Mary Sneyd
 Dr David Welch
 Dr Heather Walker

Associate Professor and Head of Department

Professor
 Research Associate Professor
 Professor
 Research Professor
 Associate Professor
 Research Associate Professor
 Research Associate Professor
 Research Associate Professor
 Associate Professor
 Research Associate Professor
 Research Associate Professor
 Senior Research Fellow
 Senior Research Fellow
 Senior Lecturer
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External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Richie Poulton	Development of risk for chronic diseases: A longitudinal multidisciplinary study	HRC Programme Extension	\$3,890,261
2006	Dr Shyamala Nada-Raja	An internet based CBT self-help for depression: a randomised controlled trial	HRC – Project	\$1,222,946
2006	A/Prof Colin Cryer	Effective occupational health interventions in agriculture: Key characteristics of their development and implementation in New Zealand	HRC Partnership Programme	\$392,884
2006	Ms Rebbecca Lilley	Determinants of occupational injury and disease	HRC/ACC joint Ph.D Scholarship	\$264,532
2006	Ms Jean C Simpson	A brief child safety intervention: Reducing Injury Among the Under 5s	ACC	\$247,460
2006	Dr David I McBride	An international cross cultural survey of musculoskeletal disorders and causes of disability	HRC International Investment Opportunities Fund	\$183,458
2005	Dr Dorothy Begg	New Zealand Drivers Study: A follow-up study of newly licensed	Road Safety Trust	\$399,999
2005	Dr Dorothy Begg	New Zealand Drivers Study: a follow-up of newly licensed drivers	HRC – Project	\$365,107
2005	Dr Shyamala Nada-Raja	A longitudinal study of risk and protective factors for gambling and pathological gambling: analyses and writing up phases	HRC Miscellaneous	\$231,675
2005	Ms Gabrielle Davie	Improvements in the validity of ICD based Injury Severity Scores (ICISS) on which NZIPS official indicators are based	Statistics New Zealand Project	\$70,537
2004	Professor John D Langley	Injury Prevention Research	HRC Programme Extension	\$2,456,999
2004	Dr Dorothy Begg	New Zealand Drivers Study: A follow-up study of newly licensed drivers	ACC	\$599,990
2004	Dr David J Chalmers	Identification of risk factors for non-submersion swimming injury	ACC	\$504,435
2004	Ms Jean C Simpson	A brief child safety intervention: reducing injury among under 5s	ACC	\$439,707
2004	Dr Anthony I Reeder	Measurement and mitigation of solar ultraviolet radiation exposure of school children	Cancer Society Project	\$168,364
2004	Professor John D Langley	Prospective Injury Outcomes Study (PIOs); Development Phase	HRC Strategic Development	\$121,107

2004	Professor John D Langley	National all cause mortality and hospitalisation injury databases Programme	ACC	\$115,942
2004	Professor John D Langley	Identification of modifiable environmental factors to reduce community alcohol-related harm	HRC/ACC joint Ph.D Scholarship	\$85,000
2004	Dr David J Chalmers	Monitoring national sport and recreational injury data: especially aquatic injury data	ACC	\$70,443
2004	Professor John D Langley	ACC emerging injury issues and strategic advice	ACC	\$69,478
2004	Dr Peter L Davidson	Biomechanical analysis of the rebound aspect of playground surfaces	HRC – Project	\$67,838
2004	Professor Richie Poulton	DNA Collection in the Christchurch Health & Development Study	James Hume Bequest Fund	\$55,249
2004	Dr Hilda M Firth	Work-related determinants of health, safety and well-being of New Zealand workers	HRC/ACC joint Ph.D Scholarship	\$55,000
2003	Professor Richie Poulton	Development of risk for chronic diseases: a longitudinal multidisciplinary study	HRC Programme	\$3,536,601
2003	Dr Shyamala Nada-Raja	Protective factors for self-harm	HRC – Project	\$548,030
2003	Professor John D Langley	Epidemiology of work-related slip, trip and fall injuries	HRC Tender	\$100,434
2003	Professor John D Langley	Evaluating the impact of the FarmSafe Programme on the safety culture of Farming	ACC – Career Development Award	\$50,000
2002	Dr Anthony I Reeder	Core funding: Social and behavioural research in cancer group (SBG)	Cancer Society Project	\$592,248
2002	Professor John D Langley	Hazardous drinking early intervention project (EIP)	Alcohol & Liquor Advisory Council Research	\$276,510
2002	Professor Richie Poulton	Dunedin Family Health Study (Lifecourse persistent antisocial behaviour)	Kings College London	\$242,000
2002	Professor Richie Poulton	Dunedin Family Health Study (Major mental disorders from childhood to adulthood)	University of Wisconsin	\$200,000
2002	Dr D Coulter	NZ adverse effect monitoring programme	Merck (USA)	\$136,054
2002	Professor DCG Skegg	CJD Register	Ministry of Health	\$69,954
Total				\$18,334,678
Combined 2002-2006 income for all grants ≤ \$50,000				\$460,555
Grand Total				\$18,795,223

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Dr Dorothy Jean Begg Dr David J Chalmers Dr David Coulter Associate Professor Brian Cox Associate Professor Colin Cryer Dr Peter L Davidson Dr Nigel P Dickson Professor John D Langley Dr David I McBride Professor Charlotte Paul A/Professor Martin Pollock Professor Richie Poulton Ms Jean C Simpson Dr Faafetia Sopoaga Dr Michael Vincent Tatley Dr Wayne A Temple	Accident Compensation Corporation Alcohol Advisory Council of New Zealand Dow Chemical Company HBSA Inc Hunter Area Health Service Ministry of Health National Institute of Occupational Safety and Health New Zealand Defence Force New Zealand Rugby Football Union NZ Police Pacific Institute for Research and Evaluation Statistics New Zealand University of Wisconsin	\$13,117,620
Combined 2002-2006 income for all grants ≤ \$50,000			\$190,936
Grand Total			\$13,308,556

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	10	11	11	13	13
MHealSc (endorsed in OH)	2	-	-	1	1
MHealSc (endorsed in HM)	1	2	2	-	-
Master of Public Health	9	5	7	11	15
Total Masters	12	7	9	12	16

*as at 1 June each year

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DEPARTMENT OF PSYCHOLOGICAL MEDICINE

The Department of Psychological Medicine consists of the two main units of Clinical Psychiatry and Behavioural Science. Both units are involved in a variety of clinically relevant research areas, including self-harm and suicide, delusions, schizophrenia, community mental health epidemiology, anxiety and depression, substance misuse and addictions, sexual health and HIV, primary care interventions, communication and consultation skills, gender, religion and mental health, cognitive processes, behavioural aspects of physical health, child abuse, exploration of developmentally appropriate techniques for gathering information from children, and child therapies. The Department has close ties with the Dunedin Multidisciplinary Health and Development Research Unit.

<http://dnmeds.otago.ac.nz/departments/psychological/index.html>

Staff

A/P Oliver Davidson	Associate Professor and Head of Department
Dr Keren Skegg	Senior Lecturer
Dr Gavin Cape	Senior Lecturer
Dr Christopher Gale	Senior Lecturer
Dr Richard Mullen	Senior Lecturer
Dr Nicola Swain-Campbell	Senior Lecturer
Dr Annette Hannah	Lecturer
Dr Jane Millichamp	Lecturer
Dr Tess Patterson	Lecturer
Dr Judy Trevena	Lecturer
<i>Plus 11 Clinical Lecturers</i>	

External Research Grants

	Total \$
Combined 2002-2006 income for all grants ≤ \$50,000	\$9,777

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	2	2	2	1	1
Masters	2	2	1	2	2

*as at 1 June each year

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DEPARTMENT OF WOMEN'S AND CHILDREN'S HEALTH

The Department of Women's and Children's Health comprises the Section of Obstetrics and Gynaecology and the Section of Paediatrics.

The Section of Obstetrics and Gynaecology has a strong research focus, specifically, infertility, urogynaecology, diabetes in pregnancy, gynaecological oncology, laparoscopy and microsurgery audit, decision analysis, quality assurance, ovarian ultrastructure and biology, and management of high-risk pregnancy and prenatal diagnosis. In recent years funding has been received to co-ordinate national and international multi-centre studies, and staff members are involved with secondary research in urogynaecology, and with the Cochrane Urinary and Faecal Incontinence Review Group.

<http://dnmeds.otago.ac.nz/departments/womens/obstetrics/index.html>

The Section of Paediatrics also has a strong research focus, with areas of particular strength including sudden infant death syndrome, asthma, sleep related breathing disorders, the National Mortality Review for Children, genetics of congenital malformations, neonatal and paediatric endocrinology, and ethics and clinical genetics.

<http://dnmeds.otago.ac.nz/departments/womens/paediatrics/index.html>

Staff

Professor Barry Taylor **Professor and Head of Department**

Obstetrics and Gynaecology

Professor Don Wilson **Professor and Head of Section**

A/P Wayne Gillett Associate Professor

Dr Dawn Miller Senior Lecturer

Plus 7 Clinical Senior Lecturers

Paediatrics and Child Health

Professor Barry Taylor **Professor and Head of Section**

Professor Stephen Robertson Professor

Dr Roland Broadbent Senior Lecturer

Dr Barbara Galland Senior Research Fellow

Dr David Reith Senior Lecturer

Dr Zandra Jenkins Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Professor Stephen Robertson	Lessons from rarities: The role of filamins in human development	Marsden Fund	\$763,553
2006	Professor Barry Taylor	The FLAME Study (Family Lifestyle, Activity, Movement and Eating): Identifying modifiable factors in the development of childhood obesity	Child Health Research Foundation	\$100,002
2006	Ms Catherine Sherwin	Investigation into the diagnosis of neonatal sepsis and improvement of treatment utilizing the pharmacokinosis	Freemason's Postgraduate Fellowship (Grand Lodge)	\$59,860
2006	Professor Barry Taylor	FLAME Study (Family Lifestyle Activity Movement and Eating)	Caversham Foundation	\$50,573
2005	Professor Stephen Robertson	Genes and malformations in children	Child Health Research Foundation	\$210,000
2005	Professor Barry Taylor	The FLAME Study: identifying risk factors for obesity development in children	National Heart Foundation	\$132,102
2005	Professor Stephen Robertson	How does the cytoskeleton regulate cell signalling during morphogenesis? (Marsden subcontract)	Massey University	\$83,616
2004	Professor Barry Taylor	The FLAME Study (Family Lifestyle, Activity, Movement and Eating)	Child Health Research Foundation	\$97,079
2003	Professor Stephen Robertson	Chair of Child Health Research	National Child Health Research Foundation	\$561,000
2002	Professor Stephen Robertson	Purchase of a WAVE Nucleic Acid Fragment Analysis System.	Lottery Health Research	\$60,000
Total				\$2,117,785
Combined 2002-2006 income for all grants ≤ \$50,000				\$215,568
Grand Total				\$2,333,353

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Professor Barry J Taylor Professor P Donald Wilson	Melbourne Health, Royal Melbourne Hospital Ministry of Health Pharmacia	\$1,426,260
Grand Total			\$1,426,260

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	-	1	1	1	2
Masters	1	-	1	1	2

*as at 1 June each year

Publications

*Obstetrics and Gynaecology***Chapter in Book**

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Paediatrics

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- Balakrishnan, K., Grieve, J., Tordoff, J., Norris, P., & Reith, D. (2006). Pediatric Licensing Status and the Availability of Suitable Formulations for New Medical Entities Approved in the United States Between 1998 and 2002. *New Zealand Medical Journal*, 4:119.
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Annual report

- Kerruish, N., Webster, D., Wilson, C., & Wiltshire, E. (2005). *Inborn errors of metabolism (IEM): Urea cycle, amino acid, organic acid disorder or fatty acid oxidation*. Report to the Paediatric Society of New Zealand. University of Otago.



Dr Shymala Nada-Raja

UNIVERSITY OF OTAGO WELLINGTON

DEPARTMENT OF MEDICAL RADIATION THERAPY

The Department of Medical Radiation Therapy has one established research area in cancer cell biology involving development and testing of anti-cancer drugs in conjunction with the Malaghan Institute of Medical Research.

The Department is further developing research in the following areas:

- Psycho-oncology – investigations into the psychosocial impact of cancer and its treatments.
- Role extensions of radiation therapists
- Mentoring programmes for practitioners and students
- Effective communication for radiation therapists

<http://www.wnmeds.ac.nz/academic/radiationtherapy/index.html>

Staff

Ms Karen Coleman

Ms Gay Dungey

Dr Patrix Herst

Ms Hazel Nesar

Head of Department

Lecturer

Lecturer

Lecturer

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*					-

*as at 1 June each year

Publications

Authored Book

Ewart, L., Nesar, H. F., & Irving, T. *Death Without Warning - After an Accidental Death. Information for Individuals and Families in the Days Ahead.* Accident Compensation Corporation, Wellington. (2002) 45p.

Journal Article

Berridge, M. V., Herst, P. M., & Tan, A. S. (2005). Tetrazolium dyes as tools in cell biology: New insights into their cellular reduction. *Biotechnology Annual Review*, 11, 127-152.

Burbery, J. Ethics the kiwi way. *Shadows - New Zealand Journal of Medical Radiation Technology* 44(5):10-12 (2002).

Burbery, J. Treatment planning throughout the ages. *Shadows - New Zealand Journal of Medical Radiation Technology* 44(4):6-8 (2002).

Coleman, K. L. Relocating radiation therapy - The true story. *Shadows - New Zealand Journal of Medical Radiation Technology* 45(3):12-14 (2002).

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Herst, P. M., & Berridge, M. V. (2006). Plasma membrane electron transport: a new target for cancer drug development. *Current Molecular Medicine*, 6 (8):895-904.

Herst, P. M., Levine, D., & Berridge, M. V. (2005). Mitochondrial gene knockout HL60rho0 cells show preferential differentiation into monocytes/macrophages. *Leukemia Research*, 29(10), 1163-1170.

Herst, P. M., Tan, A. S., Scarlett, D-J. G., & Berridge, M. V. (2004). Cell surface oxygen consumption in mitochondrial gene knockout cells. *Biochimica et Biophysica Acta*, 1656, 79-87.

Luketina, I. A., & Greig, L. (2004). Linear accelerator output variability. *Australasian Physical and Engineering Sciences in Medicine*, 27(3), 155-159.

McChesney, P. (2004). The theory-practice gap: Why does it exist? *Shadows*, 47(1), 9-10.

McChesney, P. (2004). What a difference a comma makes. *Shadows*, 47(1), 25-28.

Scarlett, D-J. G., Herst, P. M., & Berridge, M. V. (2005). Multiple proteins with single activities or a single protein with multiple activities: The conundrum of cell surface NADH oxidoreductases. *Biochimica et Biophysica Acta*, 1708(1), 108-119.

Scarlett, D-J., Herst, P., Tan, A., Prata, C., & Berridge, M. (2004). Mitochondrial gene-knockout (rho0) cells: A versatile model for exploring the secrets of trans-plasma membrane electron transport. *Biofactors*, 20(4), 199-206.

The Department of Medicine is active in many areas of medical research including disease mechanisms, new treatments and clinical trials of treatments. The Department comprises three major research groups:

This Group provides specialist scientific expertise and methodologies to assist industry and researchers to identify, characterise, evaluate and develop natural health and pharmaceutical products for human and animal health.

Rehabilitation, Teaching and Research Unit (RTRU)

The RTRU conducts research into the process and outcomes of rehabilitation. Specific interests of staff include rehabilitation research on various problems including continence, chronic pain, lower back pain, multiple sclerosis, rheumatic disorders, schizophrenia, stroke, spinal cord injury and Parkinson's Disease.

Wellington Asthma Research group (WARG)

WARG's research programme covers clinical, biomedical and public health aspects of asthma research, including studies to understand the causes of asthma and also the study of novel treatments. The objectives of the Group centre on identifying the causes of asthma, the factors that determine severity, and the development of strategies for prevention and improved management. Funding for WARG's research comes from a wide variety of sources, with core funding provided by the Health Research Council of New Zealand.

Staff

Professor Julian Crane
A/P Stewart Mann
A/P Richard Siegert
A/P Mark Weatherall
Dr David Abernethy
Dr Angela Campbell
Dr Paul Davis
Dr Sarah Dean
Dr John Delahunt
Dr Robin Griffiths
Dr Andrew Harrison
Dr Sam Islam
Dr Lissa Judd
Dr Jeremy Krebs
Dr Joanna MacDonald
Dr Alison Masters
Dr Alister Neill
Dr Michael Nowitz
Dr Kate Scott
Mr Robert Siebers
Dr Nigel Stace
Dr Iwona Stolarek
Dr William Taylor
Dr Michael Tweed
Dr Kristin Wickens
Ms Julie Burgess-Manning
Dr Nicholas Greenhill

Professor
Associate Professor
Associate Professor
Associate Professor
Senior Lecturer
Senior Lecturer
Senior Research Fellow
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Clinical Senior Lecturer
Senior Lecturer
Clinical Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Research Fellow
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Senior Lecturer
Lecturer
Research Fellow

Dr Jean Hay-Smith	Lecturer
Ms Ginny Hickman	Lecturer
Dr Tristram Ingham	Research Fellow
Dr William Levack	Lecturer
Ms Susan Lord	Lecturer
Ms Fiona Mathieson	Lecturer
Ms Anne Sinnott	Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Jeremy Krebs	Diabetes Excess Weight Loss (DEWL) Trial: High-protein vs Low-fat Diets	HRC – Project	\$1,461,280
2006	Professor Julian Crane	A pilot study for a national environment intervention in childhood asthma	HRC – Project	\$304,235
2005	Dr Robert Siebers	Early Life fungi biomass exposure and development of allergic diseases	HRC – Project	\$108,367
2005	Professor Julian Crane	A pilot study of inhaled nicotine delivery in smokers	HRC – Project	\$85,798
2004	Professor Julian Crane	Peptidoglycan exposure in the home and wheezing in the infant cohort study	HRC – Project	\$113,010
2003	Professor Julian Crane	Exhaled Nitric oxide and the diagnosis of asthma at age 6 in the infant cohort study	Lottery Health Research	\$69,719
2003	Ms Sue E Lord	Community ambulation following a stroke – a comparison of two exercise approaches	Lottery Health Research	\$53,694
Total				\$2,196,103
Combined 2002-2006 income for all grants ≤ \$50,000				\$397,679
Grand Total				\$2,593,782

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Professor Julian Crane Dr Paul F Davis Dr Alistair McKenzie Neill A/Professor Richard J Siegert	AgResearch American Biologics Japan Ltd Amino Up Chemical Co Ltd Aotea Pacific Ltd Bio-Mer Limited Capital & Coast District Health Disorders Unit Capital and Coast District Health Board Comvita New Zealand Ltd DWT Limited Fifeshire Marketing Co Fonterra Cooperative Dairy Company Ltd Fonterra Research Centre Ltd Forest Herbs Research Ltd Health Research Council of NZ HortResearch Immuno Research Ltd Industrial Research Ltd LactoPharma Meat Biologics Limited New Zealand Guidelines Group Inc Respiroics Inc Sylvan Health Pty Ltd University of Waikato	\$5,550,613
Combined 2002-2006 income for all contracts ≤ \$20,000			\$173,786
Grand Total			\$5,724,399

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	4	5	7	9	11
Masters†	20	19	14	14	9

*as at 1 June each year

†thesis or dissertation students only

Publications

Chapter in Book

- Beasley, R., Town, G. I., & Fitzharris, P. F. Diagnosis and management of asthma. In *Respiratory Medicine Third Edition*. R. A.L. Brewis (Ed.) Elsevier Science Limited, Edinburgh (2002) 1306-1322.
- Cape, G. S., Hulse, G., Robinson, G., McLean, S., Saunders, J. B., Young, R., & Martin, J. Sedative-Hypnotics. In *The Management of Alcohol and Drug Problems*. G. Hulse, J. White and G. Cape (Eds.) Oxford University Press, Melbourne (2002) 212-228.
- Howden-Chapman, P., Crane, J., Baker, M., Cunningham, C., & Matheson, A. (2004). Reducing health inequality through improving housing: He Kainga Oranga/ Housing and Health Research Programme. In P. Howden-Chapman & P. Carroll (Eds.), *Housing and health: Research, policy and innovation* (pp. 83-92). Wellington, New Zealand: Steele Roberts.
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- Siebert, R. J. (2003). Clinical psychology and evolutionary psychology: Strange bedfellows? In K. Sterelny & J. Fitness (Eds.), *From mating to mentality: Evaluating evolutionary psychology* (pp. 227–246). New York: Psychology Press.
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Journal Article

- Al-Delaimy, W., Crane, J., & Woodward, A. Is the hair nicotine level a more accurate biomarker of environmental tobacco smoke exposure than urine cotinine? *Journal of Epidemiology and Community Health* 56:66–71 (2002).
- Al-Delaimy, W., Crane, J., & Woodward, A. Passive smoking, as measured by nicotine, and severity of acute lower respiratory illnesses among children. *Tobacco Induced Diseases* 1:27–33 (2002).
- Aldington S. Williams M. Weatherall M. & Beasley R. (2006). Duration of action of the salmeterol/fluticasone combination inhaler administered in the evening: a randomized controlled trial in childhood asthma. *Respirology*, 11(5):638–642.
- Aldington, S., Shirlcliffe, P., Weatherall, M., & Beasley, R. (2005). Increased risk of cardiovascular events with parecoxib/valdecoxib: A systematic review and meta-analysis. *The New Zealand Medical Journal*, 118(1226), 1–10.
- Aldington, S., Shirlcliffe, P., Weatherall, M., & Beasley, R. (2005). Systematic review and meta-analysis of the risk of major cardiovascular events with etoricoxib therapy. *The New Zealand Medical Journal*, 118(1223).
- Barnes, M., Houston, D., Worsnop, C. J., Neill, A. M., Mykityn, I. J., Kay, A., Trinder, J., Saunders, N. A., McEvoy, R., & Pierce, R. J. A randomized controlled trial of continuous positive airway pressure in mild obstructive sleep apnea. *American Journal of Respiratory and Critical Care Medicine* 165:773–780 (2002).
- Beasley, C. R., Shirlcliffe, P. M., Harper, J. L., Holt, S., & Le Gros, G. Mycobacterium-based vaccines for the prevention of allergic disease: A progress report. *Clinical and Experimental Allergy* 32:1128–1130 (2002).
- Burgess, C., Blaikie, A., Ingham, T., Robinson, G., & Narasimhan, S. (2006). Monitoring the use of amiodarone: compliance with guidelines. *Internal Medicine Journal*, 36(5):289–293.
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DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Research interests in the Department of Obstetrics and Gynaecology are varied and include renal dysphagia, hydro nephrosis, prenatal diagnosis and therapy, endometriosis, incontinence following delivery, perinatal outcomes following caesarian, fertility, assisted reproductive techniques, perinatal pathology, and sudden infant death syndrome.

<http://www.wnmeds.ac.nz/academic/OandG/index.html>

Staff

Professor Kevin Pringle	Professor and Head of Department
Professor John Hutton	Professor
Dr Fali Langdana	Senior Lecturer
Dr Dean Maharaj	Senior Lecturer
Dr Andrew Murray	Senior Research Fellow
Dr Hong Soo Wong	Senior Lecturer
Dr Jane Zuccollo	Senior Lecturer
Plus 3 Clinical Senior Lecturers	

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2004	Professor Kevin Pringle	Obstructive uropathy in fetal lambs	St Mariana University Japan	\$69,267
Total				\$69,276
Combined 2002-2006 income for all grants ≤ \$50,000				\$5000
Grand Total				\$74,276

Publications

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DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH

The members of the Department of Paediatrics and Child Health are committed to conducting high quality research into common and important childhood diseases and to ensure the knowledge gained is translated into improved adolescent and child health outcomes.

Current research focuses on paediatric infectious disease, cystic fibrosis, bronchiectasis, vascular complications of diabetes, hypoglycaemia, sleep deprived EEGs and childhood epilepsy, respiratory control in newborn babies and preterm infants, sexual assault, childhood asthma and the influence of probiotics upon gut permeability and the development of eczema.

<http://www.wnmeds.ac.nz/academic/paediatrics/index.html>

Staff

Dr Thorsten Stanley	Senior Lecturer and Acting Head of Department
Professor Keith Grimwood	Professor
Dr Dawn Elder	Senior Lecturer
Dr Lynette Sadlier	Senior Lecturer
Dr Esko Wiltshire	Senior Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Prof Keith Grimwood	Regulation of immunity and immune-mediated diseases.	HRC Programme Extension	\$3,493,763
2006	Prof Keith Grimwood	Risk-targeted study of avian influenza zoonosis.	Institute of Environmental Science and Research (ESR) and Ministry of Agriculture and Forestry (subcontract)	\$314,000
2006	Dr Thorsten V Stanley	A pilot study for a national environmental intervention in childhood asthma	HRC	\$ 304,235
2006	Prof Keith Grimwood	Exploring serum antibodies for the early detection of <i>P. aeruginosa</i> in cystic fibrosis	Australian Cystic Fibrosis Research Trust	\$90,190
2006	Prof Keith Grimwood	<i>P. aeruginosa</i> in cystic fibrosis: determinants of acquisition, virulence and persistence	Australian Cystic Fibrosis Research Trust	\$89,386
2005	Prof Keith Grimwood	A multi-centre, randomised, controlled trial of BAL directed therapy in young children with cystic fibrosis	Australian National Health and Medical Research Council	\$656,392
2005	Prof Keith Grimwood	Longitudinal, multicentre group A rotavirus strain surveillance within New Zealand	Merck Research Laboratories	\$293,784
2004	Prof Keith Grimwood	Molecular epidemiology of respiratory syncytial virus infecting New Zealand infants	Lottery Grants Board	\$187,202

2004	Dr Esko J Wiltshire	Diagnosis of Cystic Fibrosis Related Diabetes: The Role of Continuous Glucose Monitoring	National Child Health Research Foundation	\$77,823
2004	Prof Keith Grimwood	Computer-assisted DNA fingerprinting of <i>Pseudomonas aeruginosa</i> in New Zealand CF clinics	National Child Health Research Foundation	\$70,000
2003	Dr Esko J Wiltshire	Effect of folate and B6 on endothelial function in children with type 1 diabetes	WCH Research Foundation and Diabetes Australia	\$90,909
2002	Dr Thorsten V Stanley	A trial of the effect of probiotics on the development of atopy and eczema in children	HRC	\$ 993,961
2002	Dr Thorsten V Stanley	The use of probiotic bacteria in the treatment of atopic eczema in children.	HRC	\$150,000
2002	Prof Keith Grimwood	Respiratory syncytial virus molecular epidemiology and strain-specific antibodies within New Zealand infants	National Child Health Research Foundation	\$50,000
Total				\$6,861,645
Combined 2002-2006 income for all grants ≤ \$50,000				\$291,839
Grand Total				\$7,153,484

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	-				

*as at 1 June each year

Awards and Scholarships

Year	Researcher	Award/Scholarship
2005	Prof Keith Grimwood	RACP Montgomery Spencer Medal
2004	Prof Keith Grimwood	Officer of the New Zealand Order of Merit (ONZM)

Publications

Authored Book

Blackmore, T., Buchan, G., Grant, C., Grimwood, K., Murdoch, D., Pierce, J., Reid, S., & Roberts, A.P. (2006). *Ministry of Health. Immunisation Handbook 2006*. Wellington: Ministry of Health.

Morgan, J., Coughlan, E. P., Rowan, D., Robertson, A., Elder, D. E., Grimwood, K., Gellatley, R., Milford, R., Croxson, K., Cook, C., Hurst, C., & Fleming, P. *New Zealand Herpes Foundation Guidelines for the Management of Genital Herpes in New Zealand*. Professional Advisory Board of the New Zealand Herpes Foundation. (2002) 42p.

Edited Book

Baldick G, Allen P, Boswell R, Brown J, Campbell T, Gale J, Grimwood K, Holloway L, Kilkelly K, Martin I, Pole R, Poutasi K, Read D, Rousseau B, Salmond G, Smith P, Wilson N. *The training of the medical workforce 2006 and beyond*. Wellington: Ministry of Health ISBN 0-478-29933-8 (2006).

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Annual report

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DEPARTMENT OF PATHOLOGY AND MOLECULAR MEDICINE

The Department of Pathology and Molecular Medicine is a multidisciplinary unit in which the subdisciplines of haematology, microbiology, chemical pathology, anatomical pathology and molecular pathology are represented.

<http://www.wnmeds.ac.nz/academic/pathology/index.html>

Staff

Professor Brett Delahunt	Professor and Head of Department
A/P John Carter	Associate Professor
A/P David Lamb	Clinical Associate Professor
A/P Christopher Sissons	Research Associate Professor
Dr Michael Humble	Senior Lecturer
Dr Diane Kenwright	Senior Lecturer
Dr J St John Wakefield	Senior Research Fellow
Ms Lidija Jovanovic	Research Fellow
Dr Catherine Koleda	Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2004	A/Prof Christopher H Sissons	Dental Caries and Cariogenic Plaques: The Sucrose, Fluoride and Oral Environment Nexus	HRC – Project	\$1,658,872
2004	A/Prof David Lamb	Randomised androgen deprivation and radiotherapy (RADAR) trial	HRC – Project	\$387,649
2004	Professor Brett Delahunt	Studies in renal cancer pathogenesis	Wellington Medical Research Foundation	\$145,771
2003	A/Prof Christopher H Sissons	New strategies for dental caries prevention	HRC – Project	\$1,229,619
2003	A/Prof Christopher H Sissons	Stopping dental caries: Are natural 'essential oils' better than chlorhexidine?	Lottery Health Research	\$99,100
2003	A/Prof Christopher H Sissons	Flourescence and Luminescence analysis of Plaque metabolic structure and viability	Lottery Health Research	\$50,000
Total				\$3,571,011
Combined 2002-2006 income for all grants ≤ \$50,000				\$208,111
Grand Total				\$3,779,122

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004-05	A/Professor Christopher H Sissons Professor Brett Delahunt	University of Indiana, Purdue University Trans-Tasman Radiation Oncology Group (TROG)	\$49,599
Total			\$49,599

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	10	11	9	8	9

*as at 1 June each year

Publications

Authored Book

Male Genital Organs, T. W. W. G. o. T. o. t. U. S., including Delahunt, B. (2004). *World Health Organization classification of tumours: Pathology and Genetics of tumours of the urinary system and male genital organs*. Lyon, France: IARC Press, 359p.

Edited Book

Delahunt, B. (Ed.). (2004). *Wellington Medical Research Foundation research review 2004*. Wellington, New Zealand: Wellington Medical Research Foundation, 62p.

Delahunt, B. (Ed.). (2005). *Wellington Medical Research Foundation research review*. New Zealand: Wellington Medical Research Foundation, 46p.

Delahunt, B., Eble, J., & Cooke, R. A. (Eds.). (2004). *Urogenital Pathology*. Queensland, Australia: Knowledge Books and Software.

Delahunt, B., George, P. M., Kenwright, D. N., Bethwaite, P. B., Gillis, D., Graves, D., Zheluk, A., Harvey, M., & Johnson, C. (Eds.). (2004). *The Royal College of Pathologists of Australia Manual: Use and interpretation of pathology tests* (4th ed.). Australia: RCPA.

Lamb, D. S., & Denham, J. W. (Eds.). (2004). *Accelerated radiation treatment (ART) for head and neck cancer*. Australia and New Zealand: Elekta.

Chapter in Book

Cohen, R., & Delahunt, B. (2004). Tubulovillous adenoma of the prostatic urethra; a rare and usually indolent lesion distinct from prostatic adenocarcinoma. *Urogenital Pathology* (pp. 27-32). Queensland, Australia: Knowledge Books and Software.

Delahunt, B., Amin, M. B., Hofstädter, F., Hartmann, A., & Tyczynski, J. E. (2004). Tumours of the renal pelvis and ureter. In John N. Elbe, Guido Sauter, Jonathan I. Epstein, Isabell A. Sesterhenn (Ed.), *Pathology and genetics of tumours of the urinary system and male genital organs* (pp. 150-153). Lyon, France: International Agency for Research on Cancer.

Delahunt, B., & Elbe, J. N. (2004). Papillary renal cell carcinoma. In John N. Elbe, Guido Sauter, Jonathan I. Epstein, Isabell A. Sesterhenn (Ed.), *Pathology and genetics of tumours of the urinary system and male genital organs* (pp. 27-29). Lyon, France: International Agency for Research on Cancer.

Gellen, L.S., Wall-Manning, G.M. & Sissons, C.H. (2006). Checkerboard DNA-DNA Hybridization Technology Using Digoxigenin Detection. In E. Hilario & J. Mackay (Eds.), *Protocols for Nucleic Acid Analysis by Nonradioactive probes*. (2nd ed.). Totowa, New Jersey: Humana Press.

Martin, D. R. (2004). The Laboratory diagnosis of streptococcal pharyngitis: Throat cultures, rapid tests and streptococcal antibodies. In J.C. Pechère and E.L. Kaplan (Eds.), *Streptococcal Pharyngitis: Optimal management* (pp. 75-84). Basel: Karger.

Ritchie, D. S., & Grigg, A. P. (2004). Hemorrhagic cystitis. *Clinical bone marrow and blood stem cell transplantation* (3rd ed.). (pp. 1268). UK: Cambridge University Press.

- Ritchie, D. S., & Grigg, A. P. (2004). Use of hematopoietic growth factors following allogeneic hematopoietic stem cell transplantation. In Kerry Atkinson, Richard Champlin, Jerome Ritz, Willem E. Fibbe, Per Ljungman, Malcolm K. Brenner (Ed.), *Clinical bone marrow and blood stem cell transplantation* (3rd ed.). (pp. 493). UK: Cambridge University Press.
- Ritchie, D. S., & Grigg, A. P. (2004). Use of hematopoietic growth factors, interleukins, and interferons following autologous hematopoietic stem cell transplantation. In Kerry Atkinson, Richard Champlin, Jerome Ritz, Willem E. Fibbe, Per Ljungman, Malcolm K. Brenner (Ed.), *Clinical bone marrow and blood stem cell transplantation* (3rd ed.). (pp. 479). UK: Cambridge University Press.
- Stehbens, W. E. Integrated vascular pathology. In *Pan Vascular Medicine Integrated Clinical Management*. P. Lanzer and E.J. Topol (Eds.) Springer-Verlag, Berlin (2002) 76-113.

Journal – Research Article

- Anderson, S. A., Sissons, C. H., Coleman, M. J., & Wong, L. Application of carbon-source utilization patterns to measure the metabolic similarity of complex dental plaque biofilm microcosms. *Applied and Environmental Microbiology* 68:5779-5783 (2002).
- Angker, L. & Swain, M.V. (2006). Nanoindentation: Application to dental hard tissue investigations. *Journal of Materials Research* 21: 1893-1905.
- Appleton, D., Page, M., Lambert, G., Berridge, M. V., & Copp, B. Kottamides A-D: novel bioactive imidazolone-containing alkaloids from the New Zealand ascidian *Pycnoclavella kottae*. *Journal of Organic Chemicals* 67:5402-5404 (2002).
- Appleton, D., Sewell, M., Berridge, M. V., & Copp, B. A new biologically active malynamide from a New Zealand collection of the Sea Hare *Bursatella leachii*. *Journal of Natural Products* 65:630-631 (2002).
- Bates, M. N., Fawcett, J. M., Garrett, N., Cutress, T., & Kjellstrom, T. (2004). Health effects of dental amalgam exposure: A retrospective cohort study. *International Journal of Epidemiology*, 33, 894-902.
- Bhatnagar, A., Gulland, S., Bascand, M., Palmer, E., Gardner, T. G., Kears, K. P., & Backstrom, B. T. (2003). Mutational analysis of conserved amino acids in the T cell receptor α -chain transmembrane region: A critical role of leucine 112 and phenylalanine 127 for assembly and surface expression. *Molecular Immunology*, 39(15), 953-963.
- Borrow, R., Aaberge, I. S., Santos, G. F., Eudey, T. L., & Martin, D. (2005). Interlaboratory standardization of the measurement of serum bactericidal activity by using human complement against meningococcal serogroup B, strain 44/76-SL, before and after vaccination with the Norwegian MenBvac outer membrane vesicle vaccine. *Clinical and Diagnostic Laboratory Immunology*, 12(8), 970-976.
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- Chapman, A. L. P., Winterbourn, C. C., Brennan, S., Jordan, T. W., & Kettle, A. J. (2003). Characterization of non-covalent oligomers of proteins treated with hypochlorous acid. *Biochemical Journal*, 375, 33-40.
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- Courtney, M. J., Koleda, C. B., & Titchener, G. (2003). Aural granuloma gravidarum. *Otolaryngology and Head and Neck Surgery*, 129(1), 149-151.
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Intellectual Property

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Commissioned Report for External Body

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DEPARTMENT OF PRIMARY HEALTH CARE AND GENERAL PRACTICE

The Department of Primary Health Care and General Practice has a number of research interests including: bioethics, general practice/primary care processes and management, guidelines in primary health care, health promotion, health services research, higher degrees and postgraduate programmes in Primary Health Care and General Practice, management of illness, men's health, undergraduate medical education, and women's health.

<http://www.wnmeds.ac.nz/academic/gp/index.html>

Women's Health Research Centre

Many diseases including osteoporosis, depression, breast cancer, menopause and Alzheimer's Disease differentially affect women. The University of Otago Women's Health Research Centre (WHRC) works collaboratively internationally and locally to explore important health challenges for New Zealand women. Key research areas include: mid-life health, diabetes and heart disease, sexual reproductive health, osteoporosis, and maternity and health of the newborn.

<http://www.wnmeds.ac.nz/academic/gp/whrc/index.html>

Staff**Professor Tony Dowell**

Dr Juliet Broadmore
 Dr Beverley-Anne Lawton
 Dr Lynn McBain
 Dr Helen Moriarty
 Dr Susan Pullon
 Dr Eileen McKinlay
 Dr Maria Stubbe
 Ms Sue Garrett
 Ms Sonya Morgan
 Dr Sally Rose

Professor and Head of Department

Senior Lecturer
 Senior Research Fellow
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Research Fellow
 Research Fellow
 Research Fellow
 Research Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Sally B Rose	Assessing sustainability – two year follow up of Women's Lifestyle Study participants	Lottery Health Research	\$91,183
2005	Dr Raina Elley	Falls assessment clinical trial (FACT)	Lottery Health Research	\$54,035
2005	Dr Debbie McLeod	General Practice enrolment, utilisation and disease management 2001 & 2005	HRC – Project	\$412,724
2004	Dr Raina Elley	Fall Assessment Clinical Trial (FACT)	ACC	\$74,628
2004	Dr Beverley Lawton	Women in Action (Women's Lifestyle Study)	National Heart Foundation	\$326,869
2004	Dr Debbie McLeod	Pathways – The Surgical Access Study: Investigation into access to elective surgery and subsequent outcomes for ACC claimants or potential claimants	ACC	\$62,000
2003	Dr Debbie McLeod	Pathways to care and outcomes for elective surgery: a prospective cohort study	HRC – Project	\$1,050,307
Total				\$2,071,746
Combined 2002-2006 income for all grants ≤ \$50,000				\$312,589
Grand Total				\$2,384,335

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Prof Anthony C Dowell Dr John A Durham Dr Beverley Lawton Dr Debbie McLeod Helen J Moriarty Dr Louise Signal	Health Services Research Centre Hutt Valley District Health Board Ministry of Health National Health Committee New Zealand Guidelines Group Inc	\$532,377
Combined 2002-2006 income for all contracts ≤ \$20,000			\$55,966
Grand Total			\$588,343

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	1	2	2	2	2
Masters†	-	2	4	6	3

*as at 1 June each year

† thesis or dissertation students only

Publications

Authored Book

Lawton, B. (2003). *Welcome to menopause today - An electronic book*. <http://www.menopausetoday.com/>.

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Broadmore, J. A., & Shand, C. Section 2: Therapeutic role of the doctor. In *The Medical Management of Sexual Abuse 5th Edition*. C. Shand, J. Broadmore, J. MacDonald, R. Gellatly and C. Hurst (Eds.) Doctors for Sexual Abuse Care, Wellington (2002).

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DEPARTMENT OF PSYCHOLOGICAL MEDICINE

The Department of Psychological Medicine's research is configured around several themes relevant to mental health practice in the New Zealand setting. These include mental health service delivery and evaluation, the interface between psychological and physical health, social psychiatry, psychiatric epidemiology, suicide, and education in the clinical professions. Current major research projects include:

- Treatment of Cognitive Impairment in Early Phase Schizophrenia (the ORCA study)
- The New Zealand Mental Health Survey (NZMHS)
- Treatment Outcome Measures for New Zealand General Adult Mental Health Services

<http://www.wnmeds.ac.nz/academic/psych/index.html>

Staff

Professor Peter Ellis

Dr Sunny Collings*

Dr Joanna MacDonald

Dr Kate Scott

Dr Tai Kake

Ms Julie Burgess-Manning

Ms Fiona Mathieson

**moved departments 2007*

Professor and Head of Department

Senior Lecturer

Senior Lecturer

Senior Lecturer

Research Fellow

Lecturer

Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2005	Professor Peter M Ellis	Cognition and Psychopathology in Māori Diagnosed with Schizophrenia: 18 month follow-up	HRC/FRST Māori Knowledge and Development	\$766,596
2003	Professor Peter M Ellis	Cognition and psychopathology in Māori diagnosed with schizophrenia	HRC Strategic Development	\$61,191
Total				\$827,787
Combined 2002-2006 income for all grants ≤ \$50,000				\$44,992
Grand Total				\$872,779

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004-06	Professor Peter M Ellis	Case Consulting Ltd Department of Child, Youth & Family Services The Mental Health Commission	\$2,465,826
Combined 2002-2006 income for all contracts ≤ \$20,000			\$10,000
Grand Total			\$2,475,826

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	9	9	8	6	7
Masters†	4	1	-	1	2

*as at 1 June each year

† thesis or dissertation students only

Awards and Scholarships

Year	Researcher	Award/Scholarship
2004	Jane Perrot	Bright Futures Scholarship

Publications

Authored Book

Ellis, P. M. (2003). *The assessment and management of people at risk of suicide*. Wellington: NZGG & Ministry of Health, 96p.

Edited Book

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Working Paper; Discussion Paper; Technical Report

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DEPARTMENT OF PUBLIC HEALTH

For about fifteen years the main focus of work of the Department has been monitoring, understanding and mitigating inequalities in health. There are also strengths in understanding professional interactions linked to resource and clinical decisions and social processes, smoking and the tobacco industry, obesity and the food industry, ecology and health, infectious diseases and population mental health.

There are two recent and/or current HRC Programme grants housed in the Department: He Kainga Oranga/The Housing and Health Research Programme (HHRP), which is in the process of seeking funding renewal, and The Health Inequalities Research Programme (HIRP).



Dr Louise Signal

<http://www.wnmeds.ac.nz/academic/dph/index.html>

The Housing and Health Research Programme

He Kainga Oranga, the Housing and Health Research Programme, is an HRC funded programme that seeks to examine and elucidate the links between Housing and Health. The aim is to identify and then evaluate housing-related interventions to improve individual, family and community health. Major studies include the Housing, Heating and Health Study; the Housing, Crowding and Health Study; the Tokelau Extended Family Housing Study; and the Housing, Insulation and Health Study.

Te Rōpū Rangahau Hauora a Eru Pōmare

The Centre was one of two Māori health research centres established in July 1992, originally funded by the HRC and Te Puni Kōkiri. The Centre was renamed Te Rōpū Rangahau Hauora a Eru Pōmare in 1995, following the untimely death of its founder Professor Eru Pōmare.

The goals of the Centre are to promote and foster health research by and for Māori and to provide an environment in which Māori can be trained in a variety of research techniques. Health disparities between Māori and non-Māori continues to be the foundation of the Centre's research.

Health Inequalities Research Programme (HIRP)

The HIRP programme is an HRC funded programme established in July 2005 to explore, explain and provide solutions for systematic health inequalities in New Zealand. There are eight projects within the HIRP programme: SoFIE-Health, SoFIE-Primary Care, Unequal Treatment – the role of health services, differential colon cancer survival by ethnicity in New Zealand, Neighbourhoods and Health, the New Zealand Census-Mortality Study, CancerTrends and Social Indicators.

Ecology and Health

This area of research is an innovation, especially for health sciences in New Zealand, which reflects growing awareness internationally of impacts on health and well-being of human-induced environmental, and especially ecological change, as recognised by the UN Millenium Ecosystem Assessment (United Nation 2005, Ecosystems and Human Well-being), and in the emerging disciplines of 'Ecological Health' and 'Conservation Medicine'. There is no equivalent in other New Zealand universities.

Health Services Research and Policy

The Department aims to address policy-relevant health services problems using public health frameworks that emphasise health gains for population groups and the reduction of health inequalities. The health services research activities of the Department are focused in the following main areas:

- Primary care
and mental health
and ownership
and access
and organisational characteristics
- Access to secondary care

HIA Research Unit

The Health, Wellbeing and Equity Impact Assessment Research Unit (HIA Research Unit) is a research, evaluation, training and resource unit of the University of Otago. It is a joint initiative between the Otago University Divisions of Humanities and Health Sciences – and a Wellington company, Quigley and Watts Ltd. The Unit brings together leading experts in the field with the aim of researching, promoting, and supporting the use of HIA throughout New Zealand, and helping to embed consideration of health and wellbeing within planning and policy making.

Health Promotion and Public Health Policy Research Unit (HEPPRU)

The Health Promotion and Public Health Policy Research Unit (HEPPRU) aims to foster excellence in research in health promotion and public health policy. The unit has particular emphasis on nutrition, tobacco and equity-focused research but includes a wide range of relevant research.

Staff

Professor Peter Crampton

Professor P Howden-Chapman
Professor Tony Blakely
A/P Kevin Dew
Dr Michael Baker
Dr Sunny Collings
Dr Fiona Cram
Dr Richard Edwards
Dr Ausaga Fa'asalele
Dr Simon Hales
Dr Ricci Harris
Dr Michael Keele
Dr Amanda Kvalsvig
Mr Gordon Purdie
Ms Bridget Robson
Dr Diana Safarti
Dr Louise Signal
Dr George Thomson
Dr Nick Wilson
Dr Kristie Carter
Donna McCormack
Dr Sarah Hill
Dr Sheena Hudson
Dr Santosh Jatana
Ms Ester Laban
Dr Mary McIntyre
Dr Jen Hester-Moore
Mr Desmond O'Dea
Nevil Pierse
Mr Tim Rochford
Dr Gabriel Sertsou
Ms Shirley Simmonds
Dr Kamalesh Venugopal
Ms Carolyn Watts

Professor and Head of Department

Professor
Research Professor
Associate Professor
Senior Lecturer
Senior Lecturer
Senior Research Fellow
Senior Lecturer
Senior Research Fellow
Senior Research Fellow
Senior Research Fellow
Senior Research Fellow
Senior Research Fellow
Senior Research Fellow
Senior Research Fellow
Senior Lecturer
Senior Research Fellow
Senior Lecturer
Research Fellow
Research Fellow
Research Fellow
Research Fellow
Research Fellow
Research Fellow
Lecturer
Lecturer
Lecturer
Lecturer
Research Fellow
Lecturer
Research Fellow
Research Fellow
Research Fellow
Lecturer

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Nick Wilson	Longitudinal study of smokers for tobacco control: NZ arm of multi-country study	HRC – Project	\$1,429,125
2006	Dr Michael G Baker	Pandemic influenza control at the borders of islands and within households	National Institutes of Health	\$1,373,187
2006	Professor Antony Blakely	CancerTrends	HRC – Project	\$924,355
2006	Professor Antony Arthur Blakely	Strategies to Promote Healthier Food Purchases: A Supermarket Healthy Options Project – Main Trial	Auckland Uniservices Ltd	\$629,993
2006	A/Prof Kevin P Dew	Tracking Health Care Interventions: patient-professional communication	Marsden Fund Project	\$570,667
2006	Professor Philippa Howden-Chapman	Housing Heating and Health Study – Reports	Ministry for the Environment	\$249,999
2006	Professor Peter Crampton	Pacific Health research workforce capability and capacity development initiative	Research Trust of Victoria University of Wellington	\$150,001
2006	Dr Simon E Hales	Seasonal patterns of cardiovascular disease in New Zealand	National Heart Foundation	\$124,999
2006	Professor Philippa Howden-Chapman	Residential movement and attachment: Health Module	Centre for Research, Evaluation and Social Assessment	\$94,749
2006	Louise M Delany	Public Health Law in NZ	HRC Foxley Fellowship	\$80,000
2006	Dr Peter Edwards	Services to present Smoke-Free Evaluation Findings 2006	Ministry of Health	\$74,000
2005	Ms Bridget H Robson	Unequal treatment – the role of the Health Services	HRC – Project	\$1,064,673
2005	Professor Peter Crampton	SoFIE- primary care: Structure of primary care, quality and health outcomes	HRC – Project	\$770,914
2005	Professor Philippa Howden-Chapman	Exploring the housing needs and experiences of people with disability in New Zealand	HRC – Project	\$372,977
2005	Ms Bridget H Robson	Nga Mate Pukupuku: Cancer Chart booklets	Ministry of Health	\$124,533
2005	Ms Ramona Tiatia	Family centred healing at home	HRC Fellowships and Scholarships	\$102,853
2005	Ms Bridget H Robson	Kaupapa Māori Epidemiology in Health research – Finding our own standards	National Institute of Research Excellence for Māori Development and Advancement	\$80,355

2005	Professor Philippa Howden-Chapman	Provision of housing research relevant to public health policy development and training	Ministry of Health	\$50,000
2004	Professor Antony Blakely	SoFIE-Health: Longitudinal Study of social trajectories, primary care, and health	HRC – Project	\$1,439,579
2004	Professor Antony Arthur Blakely	Neighbourhoods and Health	HRC – Project	\$900,368
2004	Diana Sarfati	Differential Colon cancer Survival by ethnicity in New Zealand	Cancer Society	\$361,459
2004	Ms Bridget H Robson	Contribution to operational costs of Christchurch Tissue Bank	Cancer Society West Coast Division	\$286,125
2004	Ms Bridget H Robson	Hospital Oral Health Services Use in the Wellington Region	HRC – Project	\$132,562
2004	Professor Philippa LHowden-Chapman	Social Environment – Healthy Housing Index (HVDHB)	Hutt Valley DHB	\$100,000
2004	Professor Papaarangi Reid	Towards the development of guidelines for the handling, use, and storage of Māori genetic material in research	Auckland University Subcontract	\$55,753
2004	Professor Philippa Howden-Chapman	A pilot study in the Hutt Valley for the creation of a Healthy Housing Index (HHI)	ACC	\$50,000
2003	Professor Philippa Lynne Howden-Chapman	He Kainga Oranga/Housing and Health Research Programme	HRC Programme	\$3,649,756
2003	A/Prof Kevin P Dew	Exploring clinician decision making when rationing is explicit	HRC – Project	\$209,953
2003	Dr Mavis Duncanson	Role of alcohol in serious unintentional domestic fire incidents	NZ Fire Service	\$86,268
2003	Professor Philippa Howden-Chapman	Residential movement and attachment: Health	Centre for Research, Evaluation and Social Assessment	\$84,195
Total				\$15,623,399
Combined 2002-2006 income for all grants ≤ \$50,000				\$688,342
Grand Total				\$16,311,741

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2002-06	Ms Bridget Allan Dr Michael G Baker Professor Antony Blakely Dr Catherine D Collings Ms Donna Cormack Professor Peter Crampton Dr Paul F Davis Dr Kevin P Dew Dr Mavis Duncanson A/Prof Philippa Gander Dr Simon E Hales Dr Sarah Hill Professor Philippa Howden-Chapman Professor Papaarangi Reid Ms Bridget H Robson Professor Douglas Sellman Dr Louise Signal Professor Alistair Woodward	Animal Health Board Boeing Commercial Airplane Group BRANZ Central Regions District Health Board Contact Energy Ltd Everlife Group Ltd Health Research Council of NZ Institute of Environmental Science and Research Limited Massey University National Heart Foundation of NZ National Institute for Water and Atmospheric Res Obesity Action Coalition Statistics New Zealand University of Waikato	\$3,829,989
Combined 2002-2006 income for all contracts ≤ \$20,000			\$156,030
Grand Total			\$3,986,019

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	15	14	15	12	16
Masters†	15	16	16	12	12

*as at 1 June each year

†thesis or dissertation students only

Awards and Scholarships

Year	Researcher	Award/Scholarship
2002	Prof Peter Crampton	Harkness Fellowship in Health Policy

Publications

Authored Book

Blakely, T. and S. V. Subramanian (2006). *Multilevel Studies. Methods in Social Epidemiology*. J. M. Oakes and J. S. Kaufman. San Francisco, Jossey-Bass.

Dew, K. P. (2003). *Borderland practices: Regulating alternative therapies in New Zealand*. Dunedin: University of Otago Press, 176p.

Dew, K. P., & Kirkman, A. *Sociology of Health in New Zealand*. Oxford University Press, Melbourne. (2002) 291p.

Edited Book

- Britton, J., Edwards, R., et al. (Eds.). (2005). *Going smoke-free: The medical case for clean air in the home, at work and in public places*. London, UK: Royal College of Physicians.
- Dew, K., & Davis, P. (Eds.). (2005). *Health and society in Aotearoa New Zealand* (2nd ed.). Melbourne, Australia: Oxford University Press, 308p.
- Dew, K., & Fitzgerald, R. (Eds.). (2004). *Challenging science: Issues for New Zealand society in the 21st Century*. Palmerston North: Dunmore Press, 286p.
- Howden-Chapman, P., Hales, S., Chapman, R., & Keskimäki, I. (Eds.). (2005). *The impact of economic recession on youth suicide: A comparison of New Zealand and Finland*. Wellington, New Zealand: Ministry of Health, 33p. <http://www.moh.govt.nz>.
- Howden-Chapman, P. L., & Carroll, P. (Eds.). (2004). *Housing and health: Research, policy and innovation*. Wellington, New Zealand: Steele Roberts.
- Jatana, S., Toyota, M., & Yeoh, B. S. A. (Eds.). (2005). *Migration and health in Asia*. New York, NY, USA: Routledge, 260p.

Chapter in Book

- Baker, M. G., Goodyear, R., & Howden-Chapman, P. L. (2003). Household crowding and health. *What is the extent of crowding in New Zealand?: An analysis of crowding in New Zealand households 1986-2001* (pp. 58-87). Wellington: Statistics New Zealand.
- Baker, M., Milosevic, J., Blakely, T., & Howden-Chapman, P. (2004). Housing, crowding and health. In P. Howden-Chapman, & P. Carroll (Eds.), *Housing and health: Research, policy and innovation* (pp. 57-69). Wellington, New Zealand: Steele Roberts.
- Blakely, T. A., Hales, S., Kieft, C. E., Wilson, N., & Woodward, A. (2004). Distribution of risk factors by poverty. In M. Ezzati, A. D. Lopez, A. Rodgers, & C. J. L. Murray (Eds.), *Comparative quantification of health risks: Volume 2: Global and regional burden of disease attributable to selected major risk factors* (pp. 1941-2127). Geneva: World Health Organization.
- Cook, A. G., Weinstein, P., & Woodward, A. The impact of exotic insects in New Zealand. In *Biological Invasions: Economic and Environmental Costs of Alien Plant, Animal, and Microbe Species*. D. Pimentel (Ed.) CRC Press, Boca Raton (2002) 217-238.
- Crengle, S., Crampton, P., & Woodward, A. (2004). Māori in Aotearoa/New Zealand. In J. Healy, & M. McKee (Eds.), *Accessing health care: Responding to diversity* (pp. 281-302). Oxford University Press.
- Dew, K. P. (2003). Who decides who lives? In M. Hird & G. Pavlich (Eds.), *Sociology for the Asking* (pp. 164-179). South Melbourne, VIC: Oxford University Press.
- Dew, K. (2004). Academic freedom and its limits. In K. Dew & R. Fitzgerald (Eds.), *Challenging science: Issues for New Zealand Society in the 21st Century* (pp. 187-204). Palmerston North: Dunmore Press.
- Dew, K. (2004). The regulation of practice: Practitioners and their interactions with organisations. In P. Tovey, G. Easthope & J. Adams (Eds.), *The mainstreaming of complementary and alternative medicine: Studies in social context* (pp. 64-80). London: Routledge.
- Dew, K., & Fitzgerald, R. (2004). Concluding comment. In K. Dew and R. Fitzgerald (Eds.), *Challenging science: Issues for New Zealand society in the 21st century* (pp. 273-276). Palmerston North: Dunmore Press.
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DEPARTMENT OF SURGERY AND ANAESTHESIA

The Department of Surgery and Anaesthesia is involved in a range of research fields: surgery, anaesthesia, resuscitation, emergency medicine and cardio-respiratory physiology. Between 2002 and 2006 staff research interests included:

A/P D Galletly	Resuscitation and cardio-respiratory entrainment
A/P A Thurston	Injury and surgery of the upper limb
Dr E Dennett	Epidemiology, surgery of the large bowel and rectum
Mr J Keating	Bowel cancer
Dr P Larsen	Cardio-respiratory rhythms, resuscitation
Dr A Swain	Emergency medicine, resuscitation
Mr T Wells	Ophthalmic surgery and glaucoma
Mr P Devane	Hip prosthesis wear and image analysis
Professor G Horne	Prosthetic hips
Dr J Weller	Education and human factors

The Department of Surgery and Anaesthesia's *Physiological Rhythms Unit*, is a group of collaborating researchers working on aspects of physiological rhythmicity, in particular cardiac, respiratory and electroencephalographic waveforms and their interactions. The group is made up of Duncan Galletly, Peter Larsen, Shieak Tzeng, Dawn Elder, Angela Campbell, Karen O'Keefe and Graham Orsborne. Current research includes:

- *Heart rate variability* – in particular the physiological significance of heart rate and blood pressure variability, and time series analysis of heart rate variability under different clinical, pharmacological and physiological conditions.
- *Cardioventilatory coupling* – the entrainment of respiratory rhythm by a cardiovascular afferent inputs. This research includes exploration of the mechanisms of entrainment – as well as the physiological consequences of entrainment of inspiratory timing to non-respiratory afferent inputs.
- *Ventricular fibrillation* – Our research explores time series analysis of this lethal arrhythmia, and the information content of signals derived from implanted cardioverter defibrillators.
- *Breath to breath respiratory variability* – the control of respiratory timing, particularly during sleep in the adult, newborn and infant, the occurrence of central apnoeas, and patterns of breathing during anaesthesia.

<http://www.wnmeds.ac.nz/academic/dos/index.html>

Staff

A/P Duncan Galletly	Associate Professor and Head of Department
A/P Alan Thurston	Associate Professor
Dr Elizabeth Dennett	Senior Lecturer
Mr John Keating	Senior Lecturer
Dr Peter Larsen	Senior Lecturer
Dr Andrew Swain	Senior Lecturer
Mr Tony Wells	Senior Lecturer

External Research Grants

Combined 2002-2006 income for all grants $\leq$ \$50,000 \$23,375

Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2003	Dr Anthony Wells	Alcon Australia	\$48,388
Total			\$48,388

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	2	3	4	3	2
Masters†	-	-	-	1	2

*as at 1 June each year

† thesis or dissertation students only

Publications

Authored Book

Galletly, D. (2005). *Emergency care for first responders*. Wellington: New Zealand Resuscitation Council, 230p.

Galletly, D. C. (2002) *Basic Resuscitation for Health Professionals*. The New Zealand Resuscitation Council Inc, New Zealand. 127p.

Chapter in Book

Jampel, H. D., Wells, A. P., & Gupta, N. (2005). Cyclodestruction. In R. N. Weinreb & J. G. Crowston (Eds.), *Glaucoma surgery: Open angle glaucoma* (pp. 117-129). Hague, Netherlands: Kugler.

Journal Article

Ashraff, N. N., & Wells, A. P. (2005). Transconjunctival suture adjustment for initial intraocular pressure control after trabeculectomy. *Journal of Glaucoma*, 14(6), 435-440.

Babor, R., Keating, J. P., & Isbister, W. H. (2003). Long-term outcomes after anal dilatation for anal fissure. *Coloproctology*, 25(3), 135-141.

Birchall, W., Wakely, L., & Wells, A.P. (2006). The influence of scleral flap position and dimensions on intraocular pressure control in experimental trabeculectomy. *Journal of Glaucoma* 15(4):286-90.

Carne, P. W., Frye, J. N., Kennedy-Smith, A., Keating, J., Merrie, A., Dennett, E., & Frizelle, F. A. (2004). Local invasion of the bladder with colorectal cancers: Surgical management and patterns of local recurrence. *Diseases of the Colon and Rectum*, 47(1), 44-47.

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Frizelle, F. A., Emanuel, J. C. M., Keating, J. P., & Dobbs, B. R. A multicentre retrospective audit of patients undergoing curative resection for rectal cancer. *New Zealand Medical Journal* 115:284-286 (2002).

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Garden, A., Robinson, B. J., Weller, J. M., Wilson, L., & Crone, D. Education to address medical error-a role for the high fidelity patient simulator. *New Zealand Medical Journal* 115:132-134 (2002).

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- Thurstun, A. J. (2005). 'AO' or eponyms: The classification of wrist fractures. *Australian and New Zealand Journal of Surgery*, 75, 347-355.
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SCHOOL OF PHARMACY

‘Optimisation of Drug Therapy’ is the general research aim of the School of Pharmacy, and research is focused into four areas to meet this aim. These include:

Fundamental drug research – including drug discovery, metabolism and action to extend the range of drugs available and to provide a scientific basis for the quality use of medicines and bioactive substances.

Formulation and drug delivery - development of ways to administer and deliver bioactive materials in ways that maintain their stability and achieve optimal beneficial effects while minimising unwanted side effects.

Clinical pharmacy – including strategies to optimise drug therapy and minimise harm in patients, drug and food metabolic interactions in special populations, toxicovigilance and optimal use of medicines, drug utilization studies combined with pharmacoconomics to minimise wastage and optimise use of medicines.

Pharmacy practice research – including medicines use and medicines wastage in the community, the treatment of sprains and strains, and the use of herbal medicines.

<http://pharmacy.otago.ac.nz/pages/research.html>

Staff

Professor Ian Tucker

Professor Stephen Duffull
 Professor Thomas Rades
 Dr Rosemary Beresford
 Dr Paul Fawcett
 Dr Sarah Hook
 Dr Natalie Medicott
 Dr Momir Mikov
 Dr Pauline Norris
 Dr Dorothy Saville
 Rhiannon Braund
 Dr Sree Chary
 Dr James Green
 Dr Warren McBurney
 Dr Arlene McDowell
 Aarti Patel
 June Tordoff
 Dr Joel Tyndall
 Dr Hu Zhang
 Dr Gopinath Devaraj
 Dr Niklas Sandler

Professor and Dean

Professor and Associate Dean, Postgraduate Professional Programmes
 Professor and Associate Dean, Research
 Senior Lecturer and Associate Dean, Admissions and Undergraduate Programmes
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Senior Lecturer
 Lecturer
 Research Fellow
 Lecturer
 Research Fellow
 Lecturer
 Lecturer
 Lecturer
 Lecturer
 Research Fellow
 Postdoctoral Fellow
 Postdoctoral Fellow

External Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2004	Dr Sarah M Hook	A formulation approach to improving the immune stimulatory capacity of peptide cancer vaccines	Cancer Society Project	\$215,954
2004	Dr Pauline Norris	Knowledge and use of antibiotics amongst Samoan people in New Zealand and Samoa	HRC Strategic Development	\$122,260
Total				\$338,214
Combined 2002-2006 income for all grants ≤ \$50,000				\$286,222
Grand Total				\$624,436

Research Contracts

Year Approved	Contractor	Project Title	Organisation	Total \$ Approved
2006	Professor Thomas Rades	Characterisation and optimisation of tocopheryl phosphate particles	Phosphagenics Limited	\$195,240
2006	Professor Thomas Rades	Absorption enhancement using amorphous systems – workorder 5	Roche (Switzerland)	\$155,770
2006	Professor Thomas Rades	Prediction of tablet quality and API-lactose interaction TIF Destari Pratiwi	Foundation for Research, Science and Technology	\$91,333
2006	Professor Ian Tucker	Prevention and treatment of mastitis in dairy cows	Bomac Research Ltd Mastitis Research Centre Limited	\$53,989
2006	Professor Thomas Rades	Characterisation of amorphous compounds Kirsten Graser PhD	GlaxoSmithKline	\$51,420
2006	Dr Natalie J Medicott	Formulation of angiogenic extract from deer velvet	AgResearch	\$32,007
2006	Professor Thomas Rades	Characterisation of resins as amorphous solids	Rohm and Hass Company	\$26,245
2005	Dr Sarah M Hook	Immunological testing of glycodendrimers	Industrial Research Ltd Foundation for Research, Science and Technology	\$299,998
2005	Professor Thomas Rades	Assembly and immunological testing of synthetic immune	Industrial Research Ltd Foundation for Research, Science and Technology	\$299,998
2005	Professor Thomas Rades	Suitability of APIs to be transferred into the amorphous form	Roche (Switzerland)	\$112,000
2005	Dr J Paul Fawcett	Effects of ST810 (salbutamol sulfate) on performance and body composition in Ross broiler chickens	Stirling Products Ltd	\$44,438

2005	Professor Ian G Tucker	Radiolabelled DC-005 I animal study, Pharmacokinetic assessment of DC-005 I	New Zealand Institute of Crop & Food Research	\$40,000
2005	Professor Thomas Rades	Raman spectorscopic investigations for the quantification of amorphous material in suspensions of ampicillin trihydrate and oxacillin sodium in middle chain triglycerides (totocillin suspension	Bayer AG Healthcare Germany	\$32,000
2004	Professor Ian G Tucker	Oral delivery formulations for possums	AgResearch	\$132,625
2004	Professor Thomas Rades	Determination of key information about excipients work order 3	Roche (Switzerland)	\$116,874
2004	Dr Natalie J Medlicott	Formulation of angiogenic extract from deer velvet	AgResearch	\$90,000
2004	Professor Ian G Tucker	Non steroidal anti inflammatory drugs from New Zealand biota	National Institute for Water and Atmospheric Res	\$53,333
2004	Professor Thomas Rades	Development and characterisation of oral formulations containing lauric acid	Easy Life Management Pty Ltd	\$50,000
2004	Professor Thomas Rades	THz pulsed spectroscopy, drug delivery – student PhD Axel Zeitler	Tera View	\$30,995
2003	Professor Thomas Rades	Immunological testing of glycodendrimers	Industrial Research Ltd Foundation for Research, Science and Technology	\$400,000
2003	Dr Natalie J Medlicott	Formulation of angiogenic extract from deer velvet	AgResearch	\$142,222
2003	Professor Ian G Tucker	Pharmacokinetic and metabolism studies of the Mito Q10 in rat and human	Antipodean Biotechnology Ltd	\$111,199
2003	Professor Thomas Rades	Determination of key information about excipients work order 1, work order	Roche (Switzerland)	\$102,770
2003	Professor Ian G Tucker	Evaluation of the bioequivalence of piroxicam from a 20mg capsule formulation healthy male volunteers after a single dose	Apotex New Zealand Limited	\$54,000
2003	Professor Ian G Tucker	Non-steroidal anti-inflammatory drugs from New Zealand biota	National Institute for Water and Atmospheric Res	\$53,334
2003	Professor Thomas Rades	Raman-Spectroscopic Investigations of the Polymorphic Behaviour of Bay 44-4400 in Aqueous Dispersions	Bayer AG Healthcare Germany	\$30,000
2002	Professor Ian G Tucker	Controlled Release intramammary Formulations	AgResearch	\$100,443
2002	Dr Hu Zhang	Deer velvet-hepatic drug metabolising enzyme in rats	AgResearch	\$76,042
2002	Professor Ian G Tucker	Oral Delivery of Bioactives to Possums	AgResearch	\$63,214

2002	Professor Ian G Tucker	Estradiol cloprostenol complex tablets	Plade Holdings	\$48,334
Total				\$3,089,823
Combined 2002-2006 income for all contracts ≤ \$20,000				\$117,518
Grand Total				\$3,207,341

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	21	23	16	22	27
Masters	9	9	12	4	5

*as at 1 June each year

Publications

Authored Book

- Lee, C.J., Strachan, C.J., Rades, T., & Manson, P.J. (2006). Nonlinear optics as a method for materials characterisation. *Lasers and Electrooptics research at the cutting edge*, Larkin SB (Ed.); Nova Scientific Publications, New York, 59p.
- Mikov, M., et al. (Eds.). (2004). *Lekovi U Prometu: Priručnik o lekovima i njihovoj primeni [Drug register 2004 - Handbook on drugs and their application]*. Novi Sad: Ortomedics, 530p.
- Mikov, M., Bojić-Miličević, G., Zoran, M., Suvajdžić, L., & Golocorbin-Kon, S. (2005). *Probiotici, prebiotici, sinbiotici-nove mogućnosti terapijske primene [Probiotics, prebiotics, synbiotics: New areas of therapeutic application]*. Novi Sad: Ortomedics, 45p.
- Milovanović, D. R., Mikov, M. M., Janković, S. M., & Sabo, A. (2004). *Farmakologija sulfasalazina - Polje novih mogućnosti [Sulphasalazine pharmacology - New horizons]*. Kragujevac: Medical Faculty, 56p.
- Norris, P., Herxheimer, A., Lexchin, J., & Mansfield, P. (2005). *Drug promotion: What we know, what we have yet to learn*. Geneva, Switzerland: World Health Organization, 92p.
- Stanulović, M., Jakovljević, V., Sabo, A., Mikov, M., et al. (Eds.). (2005). *Lekovi U Prometu: Priručnik o lekovima i njihovoj primeni [Drug register 2005]*. Novi Sad, Serbia and Montenegro: Ortomedics, 557p.

Chapter in Book

- Lim, M. H., McFetridge, J. E., & Liesebach, J. (2004). Frozen food components and chemical reactions. In Y. H. Hui, P. Cornillon, I. Guerrero Legaretta, M. H. Lim, K. D. Murrell, & W-K. Nip (Eds.), *Handbook of frozen foods* (pp. 67-81). New York: Marcel Dekker.
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- Saupe, A., & Rades, T. (2006). Solid lipid nanoparticles. In M.R. Mozafari (Ed.), *Nanocarrier Technologies - Frontiers of Nanotechnology*. Berlin: Springer Verlag, 9p.

Journal Article

- Alany, R.G., Rades, T., Nicoll, T.J., Tucker, I.G., & Davies, N.M. (2006). W/O microemulsions for ocular delivery: Evaluation of ocular irritation and precorneal retention. *Journal of Controlled Release*, 111, 145-152.
- Aldwell, F., Tucker, I. G., de Lisle, G., & Buddle, B. M. (2003). Oral delivery of *Mycobacterium bovis* BCG in a lipid formulation induces resistance to pulmonary tuberculosis in mice. *Infection and Immunity*, 71(1), 101-108.
- Apperley, D. C., Forster, A. H., Fournier, R., Harrison, R. K., Hodgkinson, P., Lancaster, R. W., & Rades, T. (2005). Characterisation of indomethacin and nifedipine using variable-temperature solid-state NMR. *Magnetic Resonance in Chemistry*, 43, 881-892.
- Armstrong, D. S., Hook, S. M., Jansen, K. M., Nixon, G. M., Carzino, R., Carlin, J. B., Robertson, C. F., & Grimwood, K. (2005). Lower airway inflammation in infants with cystic fibrosis detected by newborn screening. *Pediatric Pulmonology*, 40, 500-510.
- Arroll, B., Arroll, J., Goodyear-Smith, F., & Norris, P. (2005). General practitioner use of delayed prescriptions for antibiotics: A cross-sectional survey. *New Zealand Family Physician*, 32, 19-22.
- Balakrishnan, K., Grieve, J., Tordoff, J., Norris, P., & Reith, D. (2006). Pediatric licensing status and the availability of suitable formulations for new medical entities approved in the United States between 1998 and 2002. *Journal of Clinical Pharmacology*, 46, 1038-1043.

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Intellectual Property

- Lee, C. J., Rawle, C., Strachan, C. J., Rades, T., Manson, P., & Payne, K. (2004). Method and apparatus for performing a second order non-linear optical measurement on a sample. *New Zealand Patent Office, New Zealand (Provisional Patent)*(537184).

Commissioned Report for External Body

- Vaillancourt, R., Ryan, K., Becket, G., & de Silva, S. (2004). *Pre-testing of pictograms used in medicines dispensed in missions of humanitarian relief*. Commissioned by Canadian Armed Forces. University of Otago, 84p.

Working Paper; Discussion Paper; Technical Report

- Kishuna, A., et al. (2003). *Medicine Prices: A new approach*. World Health Organization and Health Action International.



Dr Pauline Norris and Dr Simon Horsborough are researching patterns of prescription of medicines.

SCHOOL OF PHYSIOTHERAPY

Research and knowledge transfer are integral parts of the School's activities, and these areas continue to develop rapidly. The School's external research funding has more than trebled in the last three years, and it has active research programmes in a variety of rehabilitation related areas, which are managed through the new New Zealand Centre for Physiotherapy Research. Current research interests are varied and include lower back pain, neurorehabilitation, rehabilitation in multiple sclerosis, physiological and clinical effects of electrophysical agents.

<http://physio.otago.ac.nz/res/projects.asp>

Staff

Professor Dave Baxter

Professor John Sullivan
A/P Peter Milburn
Dr Stephan Milosavljevic
Dr Leigh Hale
Dr Gillian Johnson
Dr Margot Skinner
Dr Richard Newsham-West
Mr Tony Schneiders
Ms Giesla Sole
Dr Haxby Abbott
Dr Allan Carman

Professor and Dean

Professor
Associate Professor
Associate Dean Postgraduate Studies
Senior Lecturer
Senior Lecturer
Senior Lecturer
Lecturer
Lecturer
Lecturer
Research Fellow
Research Fellow



Professor David Baxter is building a strong research environment in the School of Physiotherapy

Research Grants

Year Approved	Principal Investigator	Project Title	Funder	Total \$ Approved
2006	Dr Leigh A Hale	Evaluation of the ACC's Tai Chi Programme for the Elderly	Auckland University of Technology – Subcontract	\$232,469
2006	Dr Leigh A Hale	Incidence of and risk factors for falls in adults with intellectual disability	HRC Feasibility Study	\$119,084
2006	Ms Hilda Mulligan	Perceptions of participation in physical recreational activities by persons with disability in NZ	HRC Disability Research Placement Programme	\$85,000
2005	Dr Stephan Milosavljevic	Cumulative Loads on the Body in Wool Harvesting	HRC Strategic Development	\$121,134
2005	Dr Stephan Milosavljevic	Cumulative loads on the body in wool harvesting	Vernon Willey Foundation	\$60,000
Total				\$617,687
Combined 2002-2006 income for all grants ≤ \$50,000				\$110,399
Grand Total				\$728,086

External Research Contracts

Year Approved	Contractor	Organisation	Total \$ Approved
2004	Professor Stephen John Sullivan	Accident Compensation Corporation	\$150,000
Total			\$150,000
Combined 2002-2006 income for all contracts ≤ \$20,000			\$7,730
Grand Total			\$157,730

Postgraduate Students

Total Head Count	2002	2003	2004	2005	2006
PhD*	5	2	2	2	4
Masters	7	2	7	5	4

*as at 1 June each year

Publications

Authored Book

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Journal Article

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Commissioned Report for External Body

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RESEARCH SUPPORT SERVICES

The Health Sciences Division hosts the following research support services:

Anatomy Museum and Human Skeletal Collection

The W.D. Trotter Anatomy Museum in the Department of Anatomy and Structural Biology was established in 1874 and holds a large collection of anatomical specimens and models, many of which date back to the late 1800s. The Museum also holds many osteological specimens and an extensive collection of normal and abnormal radiographs.

The Department has a well-equipped plastination laboratory which provides many of the new material for the Museum's collections. A number of plastination techniques are undertaken including the silicone technique for plastinated prosections, E12 for transparent body slices, and P35 for thin brain slices.

The Department's anthropological collection of human skeletal material is the largest in New Zealand. Postgraduate students and staff from any department in the University may apply for research-based access to the Museum and skeletal collections.

<http://anatomy.otago.ac.nz>

Anatomy Otago Genomics Sequencer

The Department of Anatomy and Structural Biology houses a state-of-the-art Roche/454 GS FLX gene sequencer. This sequencer is widely regarded internationally as a breakthrough technology that will transform research in the biological sciences.

The Mega DNA sequencer uses revolutionary new technology to produce DNA sequences 1000 times faster than existing technologies. All you need to supply is high quality DNA. It can sequence anything from viruses, bacterial genomes, transcriptomes, amplicons or eukaryotic genomes.

<http://sequence.otago.ac.nz>

Biomechanics Laboratory

The 12-camera Motion Analysis System (Motion Analysis Corporation) system in the Biomechanics Laboratory of the School of Physiotherapy provides clinicians, researchers, coaches and industry with an accurate description of how a person moves during sporting, workplace or everyday activities.

Two *Advanced Mechanical Technology Inc.*, Force Plates provide information on external ground reaction forces while electromyography provides information in the temporal sequencing of muscle activity in the generation of movement. The Biomechanics Laboratory also provides motion capture (MoCap) to the animation industry in applications such as computer games, advertising and television programs.

The TeleMyo 2400T-G2 12 channel telemetric SEMG system (Noraxon), gives insight into muscle recruitment and muscle temporal activity in the generation of movement.

<http://physio.otago.ac.nz/gait/about/about.asp>

Biostatistical and Bioinformatics Services

The Division provides a professional Biostatistical Service that is available across our three campuses. Individual arrangements for accessing the services exist in each school.

Dr Mik Black in Biochemistry can be approached for advice on bioinformatics problems, especially pertaining to microarray data.

For more information please email **Dr Michele Coleman**

Centre for Protein Research

The Centre for Protein Research (CPR) is equipped with robust and state of the art standard technologies for protein and proteome analyses. Following the concept of a user laboratory, it supports research projects in the Departments of Biochemistry, Microbiology and Immunology, and provides non-commercial services for other departments within the University of Otago and institutes outside the University.

The Centre is equipped with a new ABI 4800 MALEI tandem time-of-flight mass spectrometer, which combines the high mass accuracy and resolution of a TOF-analyser with a highly specific precursor ion selection for sensitive CID (collision induced association) analysis. For large scale proteomics MALDI mass spectrometry can be combined with an Ultimate 3000 nano-flow liquid chromatography system with a set-up for 2-dimensional peptide fractionation which is coupled online to a Probot fraction collection for automated MALDI-plate spotting. Electrospray 3-D ion trap mass spectrometry and Edman amino acid sequencing also allow in depth protein analyses.

<http://biochem.otago.ac.nz/cpr/home.html>

Histology Unit

There are two Histology Units – one in Pathology, DSM and one in Dentistry.

The Pathology Unit offers histology services to all departments in the University. They process research tissue and produce either unstained slides for immunological analysis, or stained slides for microscopy. Equipment is also available for individuals to use and includes: Cryostat, Embedding machine, Microtome, Staining machines and light and fluorescent microscopes.

Contact: **Dianne Potter**

Also available in Pathology is a Dako Autostainer. This is an automated horizontal slide-processing system optimized with Dako reagents for the staining of formalin-fixed, paraffin-embedded tissues, frozen sections, cytopins, cell smears and fine needle aspirates

Contact: **Xin Tan**

Otago Centres for Electron and Confocal Microscopy

The Otago Centre for Electron Microscopy (OCEM) is well-equipped for all conventional electron microscopy applications. The Centre specialises in a range of cryopreparation techniques (both transmission electron microscopy and scanning electron microscopy) and immunocytochemical techniques.

There are two transmission electron microscopes, a Phillips CM 100TM and a Phillips 410LS TEM. The scanning electron microscopes are a JEOL 6700f field emission scanning electron microscope and a Cambridge S360 conventional SEM. The JEOL 6700f is fitted with an Alto 2500 high resolution cryostage for working with frozen hydrated specimens, and an elemental analysis (EDS) system.

The Otago Centre for Confocal Microscopy (OCCM) works in close association with the OCEM. It has two Zeiss LSM 510 confocal laser scanning microscopes: one configured for fixed, slide mounted material, the other for live cell investigations. Both are also capable of phase contrast, DIC, brightfield and fluorescence microscopy. There is also an Olympus FV1000 confocal laser scanning microscope which is configured to extend the range of experimental procedures, particularly those in the shorter excitation range. The Centre also has a UMIS, nano-indenter system which augments hard tissue morphology data by quantifying its physical attributes, and a SkyScan 7200 high resolution micro CT scanner.

<http://anatomy.otago.ac.nz/>

Otago Flow Cytometry Facility

Housed in the Department of Microbiology & Immunology, this Facility has the following equipment:

- 3x flow cytometric analysers
- 1x flow cytometric cell sorter
- 1x AutoMACS (magnetic cell sorter)
- 1x BioPlex multiplex analyser

These can be used for the analysis of complex cell suspensions: (blood cells, bacterial communities, disaggregated tumours, cell cycle analysis).

To find out about use of this facility, contact Dr Alex McLellan:

alex.mclellan@stonebow.otago.ac.nz

Otago Genomics Facility

The Otago Genomics Facility (OGF) was established in July 2000 to provide University of Otago Researchers access to microarray technology. The Facility provides researchers with the ability to analyse patterns of gene expression in normal growth and development, and in disease.

The facility comprises two powerful technologies: gene expression microarrays and laser capture microdissection (LCM). The OGF microarray lab provides DNA microarray technology allowing researchers to determine gene expression levels using cDNAs and oligos arrayed on glass slides. The use of microarrays on glass slides provides a relatively simple means of obtaining large-scale expression data for thousands of individual genes from a single experiment. Microarray technology is revolutionising research into gene discovery, disease diagnosis and treatment, and drug development for diseases such as cancer.

<http://genomics.otago.ac.nz/>

Protein Crystallography Facility

Prof. Kurt Krause serves as the Director of a newly installed protein crystallography facility at the University of Otago. The facility consists of three large temperature controlled rooms. One is devoted to crystallization and contains a new MosquitoTM crystallization robot. The second room contains computer control and modeling facilities. The third room contains a MicroMax007HF with an R-axis IV++ area detector. It is equipped with both chromium and copper anodes and separate optics. Chromium radiation is used for single wavelength anomalous diffraction (SAD) determination of protein structures, mitigating in most cases the need to visit a synchrotron. This approach has been effective in our hands for proteins with 2% or more S or Se containing residues. The flux of this machine is roughly equivalent to the protein crystallography beamline at the LSU- CAMD synchrotron facility in Baton Rouge, La. Cryo-cooling is carried out using a Rigaku X-stream 2000 cooling system. The University is also part of a consortium that will have regular access to the protein beamlines at the Australia National Synchrotron in Melbourne. Beamlines there will be optimized for MAD structure determination and native data collection.

Collaborators interested in pursuing a protein crystal structure determination should e-mail Prof. Krause at

kurt.krause@stonebow.otago.ac.nz or call ext 5166.

Real Time PCR

An ABI PRISM 7000 real-time PCR machine is available in the Department of Pathology.

- Multi-colour detection for multiplex quantitation assays, allelic discrimination assays, and plus/minus assays, tungsten-halogen illumination and compatibility with the following dyes: FAM/SYBR Green 1, VIC/JOE, NED/TAMRA, and ROX
- PC-based software, including the latest version of the Sequence Detection System Software for the ABI PRISM 7000
- Automated primer and probe design using Primer Express Software
- Complete compatibility with the ABI PRISM 7700 Sequence Detection System assay design and PCR characteristics.

Contact: **Professor Mike Eccles**

Otago University Christchurch

A full range of Molecular and Cell Biology equipment and tools are available at the Christchurch Campus. An ABI 3130 Genetic Analyser has been approved and will be available shortly. In addition through the success of a collaborative bid to the TEC from University of Canterbury and OUC, OUC staff will be able to access new equipment to be housed at UC.

Artificial Mouth

The Dental Research Unit at OUW houses a novel computer-controlled 'multiplaque artificial mouth'. This allows the development of realistic plaque microcosm biofilm model systems.

Contact: **A/Professor Chris Sissons**

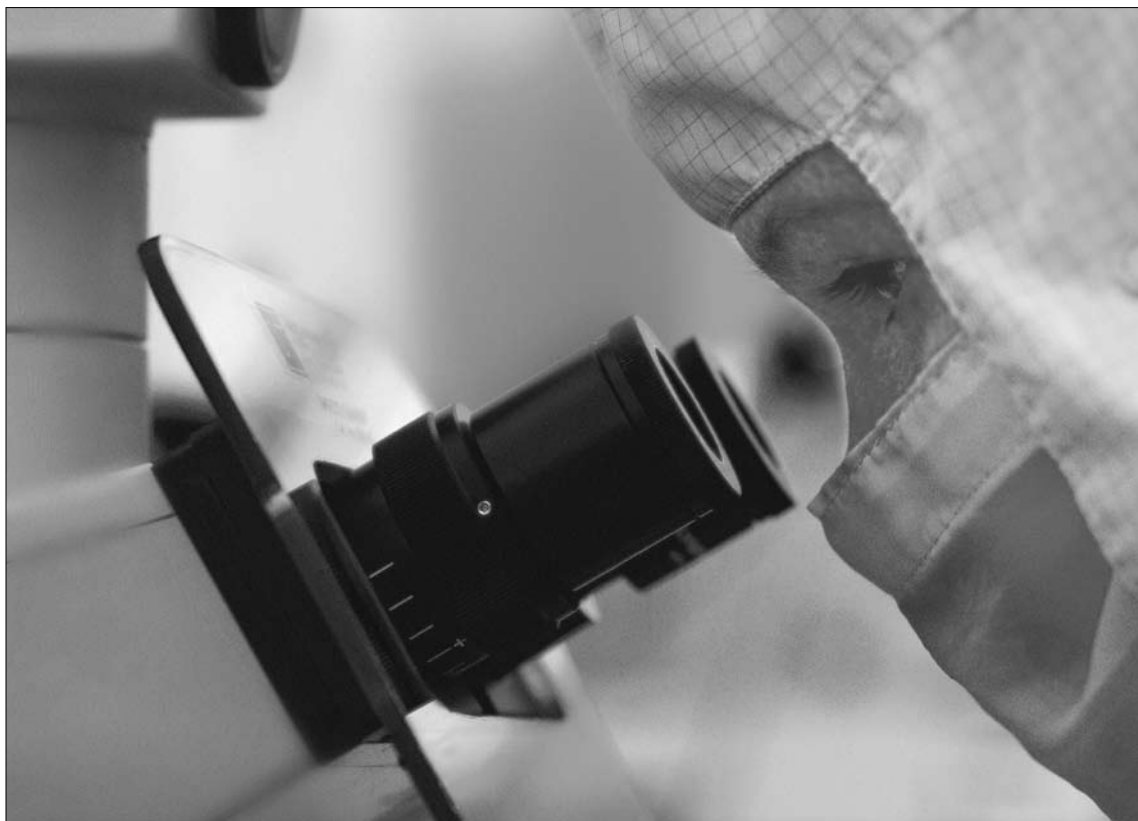
DIVISIONAL SUPPORT FOR RESEARCH

Health Sciences has a Divisional Research Committee, consisting of the Associate Deans of Research from each School plus other representatives. (See <http://healthsci.otago.ac.nz/research/index.html> for Terms of Reference). This Committee meets four or more times annually and controls a budget which provides:

- Postdoctoral Fellowships
- PhD Conference Travel Funding
- An annual Divisional Research Forum
- Mentoring for targeted grant applications
- Review of HRC, TAD and NZS&T applications
- Review of PBRF Evidence Portfolio preparation
- Research Workshops
- Other support as decided

This Committee is Chaired by the Division's Associate Dean for Research, **Professor Warren Tate**. The Division employs **Dr Michele Coleman** as its Research and Development Manager.

Email: michele.coleman@otago.ac.nz



RESEARCH OFFICE

The Otago Research and Enterprise Office deals with research funding and assists researchers in gaining money from the application/proposal stage right through to contracting and reporting stages. Research and Enterprise staff are the liaison between the Funding Bodies, Industry or Businesses and staff at the University. The Research and Enterprise Office deal with a range of activities including:

- Research grants, proposals and contracts (including externally funded travel and equipment grants)
- Fellowships
- University of Otago Research Grants
- Technology transfer
- Intellectual property protection (including patents and trademarks)
- Material transfer agreements

Under the auspices of the Research and Enterprise Office, research in the Health Sciences Division is supported by a number of Research Advisors and Administrators, and additional staff at Otago University Christchurch and Wellington.

Staff with Health Sciences Responsibilities

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Dr Julie Weaver, Research Advisor (Health Sciences)

Research and Enterprise Office, Dunedin

To be appointed Oct 2007, Research Advisor (Health Sciences)

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APPENDIX I: NOTES ON HOW THESE DATA ARE REPORTED

This report contains information on the research activities of the Division of Health Sciences at the University of Otago, for the period 2002–2006.

The data contained within the report have been sourced from the University of Otago Research Master Database, from departmental websites, and from individual departments themselves. Every attempt has been made to ensure that this report is as complete and as accurate as possible, but given the diversity of activities and interests within the Division, there may be omissions or inaccuracies for which we apologise.

There are a number of important points that should be noted.

- Research grants and contracts have been attributed to the home department of *each* principal investigator, where there were multiple principal investigators on a given grant or contract. It is acknowledged that this will inflate the sums of external income somewhat.
- In a number of cases grants/contracts straddled departments and it is unfortunate that this document is unable to give credit to co-investigators who, while not listed here, did nevertheless contribute to securing research funding.
- Details of grants and contracts which were approved prior to 2002, but were active throughout some, or all, of 2002–2006, were unable to be included in this Report.
- PhD students have only been listed in the department of their primary supervisor according to the records of the PhD Office. There is often a substantial role for second or co-supervisors that this document cannot acknowledge.
- Publications have been listed under the department of each author and co-author and hence there is a degree of duplication.

Other sources of information that may be of assistance to those interested in research within the Division of Health Sciences include:

The Division of Health Sciences website

<http://healthsci.otago.ac.nz/research/index.html>

Research and Enterprise Office, University of Otago

<http://www.otago.ac.nz/research/index.html>

Research Office, University of Otago, Christchurch

<http://www.chmeds.ac.nz/research>

Research Office, University of Otago, Wellington

<http://www.wnmeds.ac.nz/Research/office.html>

Research Office, Dunedin School of Medicine

<http://dnmeds.otago.ac.nz/research/index.html>
