



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

UQCCR

UNIVERSITY OF QUEENSLAND CENTRE FOR CLINICAL RESEARCH
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healthy
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MESSAGE FROM THE CENTRE DIRECTOR

Another step towards *transforming the lives* of Australians.

BACKGROUND: Professor Murray Mitchell

I am delighted to report that UQCCR has enjoyed its best year in 2011 since beginning operations. I would like to take this opportunity to thank all staff and students for their tremendous efforts throughout 2011.

Researchers at UQCCR have experienced outstanding success in receiving funding throughout 2011. In the latest NHMRC round we were awarded 11 of the 33 project grants submitted (where researchers were a lead investigator). This success rate of 33% compares favourably with the national average of 22.5%. Overall we received \$8.44 million in funding which is a significant proportion of the NHMRC funding awarded to UQ.

The flow of high quality publications from the Centre has increased substantially in 2011, with researchers publishing in major journals, including Nature, Nature Genetics, Lancet and PLoS ONE. Publications totaled 312 this year compared with 219 in 2010.

UQCCR is committed to continuously providing the highest quality student experience. We now have 103 research higher degree (RHD) students enrolled, with a strong list of new RHD students. (For student success see Highlights from 2011, page 6).

In addition, we have been successful in attracting a very strong and experienced executive management team, including Eluca Kim and Harvey Kramer.

Educating and engaging with the community continued to be a high priority throughout 2011. This year we appointed Professor Wayne Hall as Deputy Director (Policy). Professor Hall will be focusing on increasing public visibility of UQCCR research in order to shape government policy.

We also appointed Dr James Scott, a bright young researcher who is focused on critical mental health problems in children and adolescents. His current research (featured page 18) looks at early adverse events, such as bullying, and how these events affect children later in life. Dr Scott will no doubt be a strong leader in the community and aims to make recommendations to schools and government regarding effective bullying interventions. We hope to further increase our interactions with community groups and schools in the coming years.

As part of our commitment to providing researchers and students with world-class platform technologies to give them a competitive edge in their studies and grant applications, we have initiated the Centre for Clinical Diagnostics on level 7. This will be a NATA-accredited environment essentially reducing time from discovery to direct patient benefit by 18 months or more (see Future Research, page 46).

In collaboration with Matt Brown (UQDI) and John Mattick (IMB) we have developed The Centre for Clinical Genomics which is located at the Diamantina Institute. With the intention of maximising expertise and infrastructure, UQCCR have provided two new next-generation sequencers (HiSeq 2000 and MiSeq) and support for expert supervision.

We continue to make progress in building the Herston Imaging Research Facility. This is a joint initiative of UQ, Queensland Health, Queensland University of Technology and the Queensland Institute of Medical Research. It will be an annex to UQCCR and will utilise our clinical facilities. Funding has been secured for the building and new MRI and PET-MR equipment.

We have devoted considerable effort to further developing partnerships with clinical colleagues and hospitals in Brisbane. In 2011, UQCCR hosted the Healthy Eating Learning Program (HELP) clinic – a study led by the Queensland Children's Medical Research Institute which aims to assist children with feeding difficulties (featured page 40).

In partnership with St Andrews Hospital and the Faculty of Health Science (UQ) we are establishing the Asia-Pacific Centre for Neuromodulation in 2012. This Centre will be located at UQCCR, with surgical facilities at St Andrews hospital. It will be built around the pioneering work of Professor Peter Silburn.

The growing reputations of both UQCCR and UQ, combined with the quality of facilities in Brisbane, have enabled UQCCR to succeed in a bid to host the Society for Gynecologic Investigation (SGI) International Summit in 2012. The SGI is the world's leading obstetrics and gynecology society. 2012 is already shaping up to be another wonderful year.

community

SUPPORT



01

HIGHLIGHTS *FROM 2011*

OVATION 2011
HOT PUBLICATIONS
STUDENT SUCCESS
CENTRE FOR CLINICAL DIAGNOSTICS
FUNDING SUCCESS
Q-INDEX AWARDS



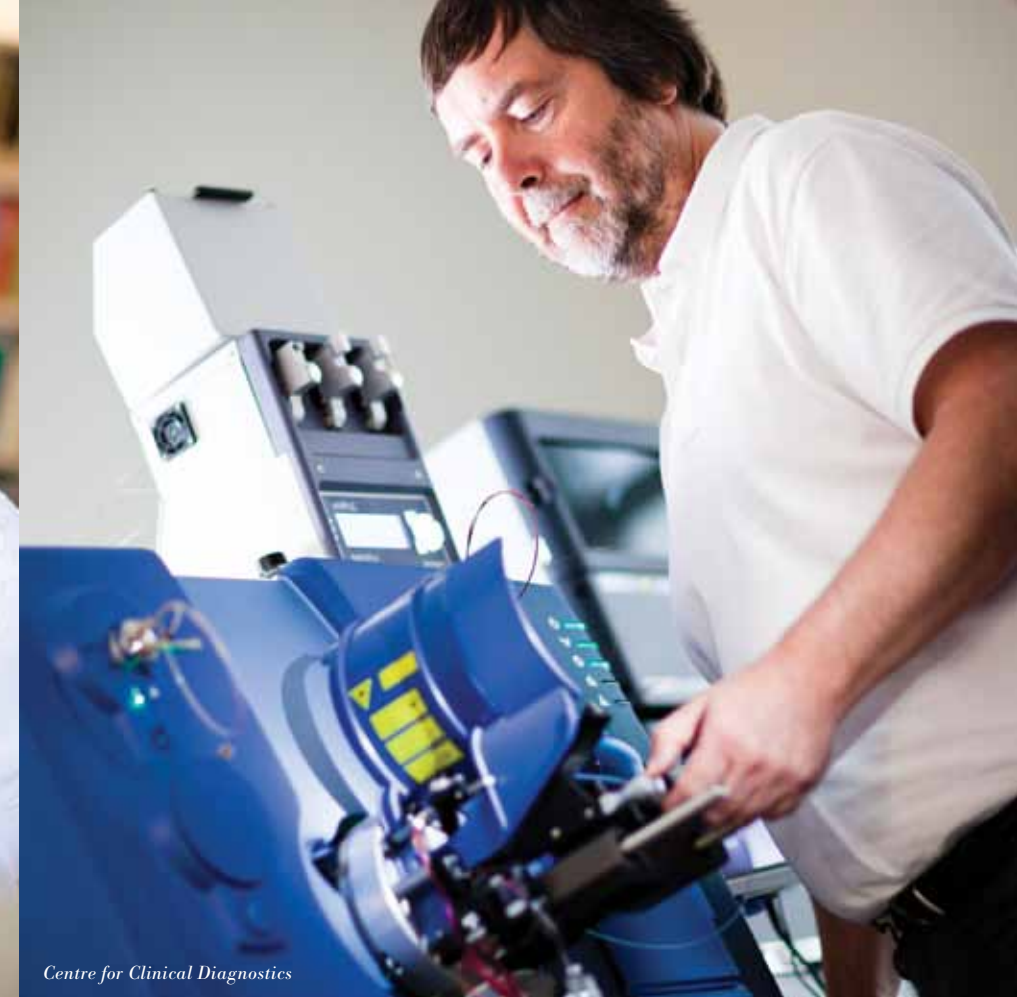
Ovation 2011, The Tivoli, Brisbane



Ovation 2011, the last act



Professor Wayne Hall



Centre for Clinical Diagnostics

A captivated audience enjoyed an evening of African dance and song, combined with the grace and elegance of traditional ballet.

OVATION 2011

The annual UQCCR fundraising gala ball “Ovation: le bal d’Afrique” was held on Friday 3 October 2011 at The Tivoli, Brisbane. Hosted by Rebecca Maddern (Channel 7), guests gathered in support of UQCCR research and development programs. A captivated audience enjoyed an evening of African dance and song, combined with the grace and elegance of traditional ballet.

HOT PUBLICATIONS

UQCCR researchers had many prestigious publications during 2011. These included: Professor Wayne Hall published in The Lancet and PLoS ONE; Professor David Paterson in PLoS ONE; and Professor Robert “Frank” Gardiner in PLoS ONE (see Appendix 2: Publications 2011, page 60).

STUDENT SUCCESS

Sixty per cent of UQCCR Honours students graduated with First Class Honours in 2011.

Shiree Heath (PhD student) won the Society for Neuroscience’s inaugural Brain Awareness Video Contest (see Uncovering the Clues, page 12).

A number of UQCCR students were awarded best poster awards during 2011. Nancy Moxey (PhD student) received the best poster award at the MS Research Australia Scientific meeting in Melbourne.

Associate PhD student Ryan Stafford won the Runner-up and People’s Choice awards from The University of Queensland’s “Three Minute Thesis” competition in 2011.

The CCD initiative has the potential to save both time and resources within the biotechnology sector and will deliver a new generation of industry-ready researchers.

CENTRE FOR CLINICAL DIAGNOSTICS

UQCCR initiated the accreditation process for the Centre for Clinical Diagnostics (CCD) – to be located at UQCCR. Funding of \$3 million from Therapeutic Innovation Australia will establish a range of methods and equipment, beginning with two mass spectrometers for proteomics and lipidomics. This means the work conducted by UQCCR scientists and clinicians within the CCD will be ready for submission to regulatory authorities such as the Therapeutic Goods Administration Australia or the US Food and Drug Administration. This new initiative has the potential to save both time and resources within the biotechnology sector and will deliver a new generation of industry-ready researchers.

FUNDING SUCCESS

In 2011, 33% of NHMRC funding applications submitted by UQCCR researchers were successful, bringing the total funding awarded to \$15,487,068. Additionally, 2011 saw a 258% increase in grants awarded with a UQCCR researcher as lead investigator (see Appendix 1: Research Grants 2011, page 52).

Q-INDEX AWARDS

Professor Paul Colditz and Professor Wayne Hall were among 52 researchers from The University of Queensland who were honoured as leaders in their diverse fields of discovery at the inaugural Q-Index Awards. Professor Colditz received an award for “Top 10 Research Income (Research Input Points)” and Professor Hall was awarded “Top 10 Research Publications (Research Output Points)”.



02

AWARDS *FROM 2011*

UNCOVERING THE CLUES
ADVANCES IN WOUND HEALING

UNCOVERING THE CLUES

PhD student *Shiree Heath* wins the Society for Neuroscience's inaugural *Brain Awareness Video Contest*.

FAST FACT

APHASIA IS CAUSED BY STROKE OR OTHER DAMAGE TO THE LANGUAGE CENTRES OF THE BRAIN (E.G. HEAD INJURY, TUMOURS, INFECTIONS).

Researchers: Shiree Heath, Associate Professor David Copland, Dr Katie McMahon, Professor Lindsey Nickels (Macquarie University), Dr Anthony Angwin, Dr Anna MacDonald, Sophia van Hees, Kori Johnson, Eiril McKinnon.
Email: shiree.heath@uq.edu.au
Twitter: @shireeheath

Shiree's video, "The Treasure Hunt", is about aphasia – the loss of a person's ability to communicate following injury to the brain.

The animation tells of a child's quest to find his grandfather's lost words, much like a treasure hunt. Along the way, "the hunt" explains how the brain processes language and how those processes are disrupted in aphasia following a stroke.

"I wanted to create a resource that would engage primary school-aged children, but also a video that everyone would find informative and interesting," Shiree said.

"I felt it was important to provide information about aphasia and its consequences in an accessible format, particularly for children. The aim was to simplify the major concepts surrounding the disorder, while telling the personal stories of those with aphasia and their families," she said.

As first-place winner, Shiree received a \$1,000 cash prize as well as a trip to the Society for Neuroscience annual meeting in Washington, DC. Shiree was given official recognition when she attended the meeting in November 2011.

Shiree's current PhD research at UQCCR explores how language therapy works in the brain following stroke. Her project aims to compare the effectiveness of two different naming treatments and considers how these treatments have their effect at a cognitive and neural level using functional magnetic resonance imaging (fMRI) technology. The results of Shiree's research may help clinicians accurately predict what type of treatment will be most effective for individuals following stroke.

BELOW: *The Treasure Hunt*, a short educational video for children about aphasia following stroke



ADVANCES IN WOUND HEALING

Associate Professor *Kiarash Khosrotehrani*'s breakthrough research on regenerating skin wounds has won him national recognition. In November 2011, he received an *NHMRC Achievement Award* at the 75th Anniversary Symposium.

FAST FACT

CHRONIC WOUNDS ARE ESTIMATED TO AFFECT 433,000 AUSTRALIANS AND COST THE HEALTH SYSTEM \$2 BILLION EVERY YEAR.

Researchers: A/Professor Kiarash Khosrotehrani, Professor Nicholas Fisk, Professor Kerry Atkinson (Mater), Professor Jonathan Golledge (JCU), Dr Christophe Combadiere (France), Professor Zee Upton (QUT), Dr Brett Hogan (QUT), Dr Mathieu Rodero, Dr Edwige Roy, Dr Jatin Patel, Samantha Hodgson, Elke Sepannen, Julien Legrand.
Email: k.khosrotehrani@uq.edu.au

The wound-healing process is both complex and delicate. Diabetes, old age, infection and other diseases can obstruct the healing process – leaving many individuals and health care professionals burdened with the management of chronic wounds.

Researchers at UQCCR have recently discovered that cells from a fetus form new blood vessels in the mother after pregnancy. This discovery could be the key to successful healing of chronic wounds in the future.

The main focus of A/Professor Khosrotehrani's research is on skin-wound healing. In particular, by understanding stem cell contributions he hopes to discover how to regenerate skin instead of forming scars. "This knowledge will be important to understand why some wounds will not heal and why some others produce excessive scarring," he said.

"We aim to understand how stem cells naturally contribute to tissue repair in order to use them to improve the healing of skin wounds that represent a major burden in our society."

Although skin stem cells have been used routinely for the treatment of wounds, they cannot reconstitute a fully functional skin given the complexity and the many cell types usually involved in wound healing.

Researchers aim to facilitate the healing of chronic wounds by isolating different populations of stem cells from the placenta – a tissue that is currently discarded after each pregnancy.

"These cells could be used to treat patients with chronic wounds that have a defect in blood vessels," A/Professor Khosrotehrani said.

Placental stem cell populations can be used to formulate new blood vessels, which are essential for quick and effective tissue repair and often absent in chronic wounds.

BACKGROUND: Sphere of skin-derived precursor (SKP) cells stained for vimentin



03

BRAIN AND *MENTAL HEALTH*

CAN DRUGS REALLY MAKE YOU SMARTER?

RESEARCHER TAKES A STAND AGAINST BULLYING

IMPROVING QUALITY OF LIFE FOR CHILDREN WITH ATAXIA-TELANGIECTASIA

DEVELOPING SAFER TREATMENTS FOR PEOPLE WITH MULTIPLE SCLEROSIS

CAN DRUGS REALLY MAKE YOU SMARTER?

Dr Bradley Partridge is currently exploring the *prevalence and risks related to the use of neuroenhancers* – or what some people refer to as ‘smart drugs’.

FAST FACT

THE NUMBER
OF STIMULANTS
DISPENSED IN
AUSTRALIA BETWEEN
2002 AND 2009
INCREASED BY 87%.

Researchers: Professor Wayne Hall,
Dr Bradley Partridge, A/Professor Jayne
Lucke, Stephanie Bell.
Email: b.partridge@uq.edu.au

The term “neuroenhancement” includes the use of drugs (prescription or non-prescription) to increase cognitive function (enhance memory, mood and attention) in people who do not have an illness or disorder.

“In Australia, we don’t have a good estimate of how many university students use prescription drugs (without a prescription) to help them study,” Dr Partridge said.

“It is speculated to be common among university students studying for exams, leading some to refer to it as ‘brain doping’.”

In collaboration with Associate Professor Jayne Lucke, and addictions expert Professor Wayne Hall, Dr Partridge is seeking to find answers to the following questions:

- Who is engaging in neuroenhancement, and why?
- Does taking smart drugs actually work? (Or do people just think it does?)
- What is the prevalence of neuroenhancement?
- What should we do about it?

If the study finds the use of neuroenhancers to be prevalent, research will be done to establish how people are accessing these drugs – whether from GPs, friends or elsewhere.

Researchers will also identify the risks involved in using neuroenhancers when people don’t have a cognitive dysfunction or disorder.

Several different research methods are currently being employed, including large-scale surveys, in-depth qualitative interviews, and policy/document analysis.

In 2011, Dr Partridge and his colleagues conducted a series of pilot interviews with university students.

These results (recently published in *Neuroethics*) found many students had some concerns about whether cognitive enhancement was ethical or amounted to cheating. However, most were sceptical about the benefits of taking stimulants to get better grades or improve functioning.

Perceived motivations for taking study aids included: “getting ahead” to perform at high levels; “keeping up” as a method of coping; and “going out” to maintain an active social life in the face of study demands.

ETHICAL

learning

“In Australia, we don’t have a good estimate of how many university students use prescription drugs (without a prescription) to help them study,” Dr Partridge said.

“As a psychiatrist, I see children from many different schools. In some schools, there is *negligible bullying*; in others, it is *endemic in the culture*,” he said.

RESEARCHER TAKES A *STAND AGAINST BULLYING*

Dr James Scott plans to avert mental illness in children through the prevention of bullying in Australian schools.

FAST FACT

ABOUT 2 IN 5 CHILDREN WILL EXPERIENCE SOME BULLYING DURING THEIR SCHOOL YEARS. ONE IN 20 CHILDREN EXPERIENCE SEVERE AND PERSISTENT BULLYING.

Child and adolescent psychiatrist Dr James Scott has recently revealed that adolescents who are frequently bullied are three times more likely than non-bullied children to have a mental illness such as anxiety, depression or substance abuse. He also believes bullying to be the strongest modifiable risk factor for mental illness in children.

Dr Scott has had extensive clinical and research experience in the areas of child and adolescent mental health; including depression, anxiety, aggression, self-harm, developmental disorders and pharmacotherapy.

In his current research, Dr Scott aims to measure the impact bullying has during childhood years and later in adult life. He will also determine the most effective way to prevent bullying in Australian schools.

By examining bullying interventions that have been tried throughout the world, he will select the ones most likely to be effective in Australian schools.

“We plan to measure the effectiveness of these interventions in an attempt to reduce the common problem of childhood bullying,” Dr Scott said.

“As a psychiatrist, I see children from many different schools. In some schools, there is negligible bullying; in others, it is endemic in the culture,” he said.

Dr Scott expects to make recommendations to schools and government regarding the most effective evidenced-based interventions for reducing bullying. He hopes these recommendations will be widely implemented.

“My experience with schools is that, with genuine intent, bullying can be effectively addressed,” he said.

Researchers: Dr James Scott, Dr Rosana Norman, Professor Peter Sly, Sophie Moore.
Email: james_g_scott@health.qld.gov.au

PREVENTIVE

healthcare

IMPROVING QUALITY OF LIFE FOR CHILDREN WITH *ATAXIA-TELANGIECTASIA*

New brain imaging research aims to *develop a world-first treatment of Ataxia-telangiectasia (A-T)*, a rare childhood disease.

FAST FACT

APPROXIMATELY 1 IN 40,000 CHILDREN ARE BORN WITH A-T. CURRENTLY, THERE IS NO CURE AND NO WAY TO SLOW THE PROGRESSION OF THE DISEASE.

Researchers: A/Professor Stephen Rose, Professor Martin Lavin (UQCCR/QIMR), Dr Kate Sinclair (UQCCR/Royal Children's Hospital).
Email: stephen.rose@cai.uq.edu.au

Ataxia-telangiectasia is a rare genetic disorder affecting the brain and other systems of young children. While sufferers appear healthy until two or three years of age, they progressively succumb to various symptoms; such as decreased mental development, coordination, speech and eye movements. Short life expectancy is also common due to a high risk of cancer and immunodeficiency.

Researchers are currently looking at changes in the brain circuitry between healthy children and those with A-T. Currently, there is no specific treatment for A-T.

A/Professor Stephen Rose and Professor Martin Lavin from UQCCR – in collaboration with Dr Kate Sinclair from the Royal Children's Hospital – hope to understand the relationship between progressive brain injury in the child and the underlying problems with nerve connectivity.

Using advanced imaging techniques (PET and diffusion-weighted MRI), researchers will measure inflammation, degeneration and altered connectivity of key motor pathways in the brains of patients with A-T. Identifying changes in connectivity will help researchers fully understand the basis of abnormalities in neural circuitry in A-T.

This combined dMRI and PET imaging strategy will provide researchers with useful biomarkers for monitoring correction of neurological symptoms in A-T patients receiving treatment to halt the progress of the disease. Patients will be recruited from the A-T clinic which has recently been established at UQCCR.



ABOVE: Ashleigh and Brady Roebig who suffer from A-T, with their brother Stacey Roebig

"A-T children manifest several different movement disorders. It is hoped that understanding the problems in circuitry may lead to novel therapeutic approaches, such as deep brain stimulation," Dr Sinclair said.

Researchers are also hopeful their findings can also be used to drive and evaluate a new clinical trial using anti-inflammatory drug beta-methasone next year. "The aim of this trial is to increase motor function and improve quality of life for children with A-T," A/Professor Rose said.

DEVELOPING SAFER TREATMENTS FOR PEOPLE *WITH MULTIPLE SCLEROSIS*

Researchers have made significant progress towards *developing peptide-based therapeutics* as a safer alternative for treating MS.

FAST FACT

AN ESTIMATED 2.5 MILLION PEOPLE WORLDWIDE SUFFER FROM MS – A DISEASE THAT COSTS AUSTRALIA ABOUT \$2 BILLION PER ANNUM.

Researchers: Dr Judith Greer, Dr Elisabeth Trifilieff (collaborator in France), Nancy Moxey, Evan Sauer.
Email: j.greer@uq.edu.au

Multiple sclerosis (MS) is a debilitating disease that attacks the central nervous system. Current treatments aim to inhibit the immune system. While these therapies succeed in slowing down the progression of MS, they also alter a person's ability to effectively respond to infections and cancers. Consequently, long-term treatment can result in severe – sometimes fatal – infections and cancers.

Dr Judith Greer and her colleagues aim to develop safe and effective MS therapies that affect only the immune cells that are doing the damage. This way the rest of the immune system can be left intact to carry out its essential functions.

"We are now at the stage of testing some of the peptides that we have developed. We hope that, if they prove effective in the tests, we will be able to take them forward into phase-one trials in humans within the next couple of years," Dr Greer said.

This has been a long-term project, as Dr Greer first had to identify which areas of the brain and spinal cord were being targeted by the immune system in people with MS.

The researchers are currently investigating the opportunity for peptide-based therapeutics. There are challenges associated with the development of peptides as drugs, including their rapid metabolism in the human body before they have a chance to act.

Dr Greer and her collaborators have now developed a simple method to improve the stability and efficacy of peptide-based therapeutics. This method is now being investigated with the peptides that the researchers have developed.

"If we can develop a therapeutic agent for use in MS patients, there is also the potential that the same approach could be used to develop therapeutics for other autoimmune diseases such as rheumatoid arthritis and type 1 diabetes," Dr Greer said.

BACKGROUND: Dr Judith Greer



0 4

MOTHERS, BABIES AND *LIFELONG HEALTH*

IMPROVING OUTCOMES FOR THE SMALLEST MEMBERS OF OUR COMMUNITY
A HEALTHY START TO LIFE FOR VULNERABLE INFANTS

IMPROVING OUTCOMES FOR THE SMALLEST MEMBERS OF OUR COMMUNITY

Developing effective treatments for preterm babies with poor heart function – *giving them a healthier start to life.*

FAST FACT

POOR CARDIOVASCULAR FUNCTION OCCURS IN UP TO 30% OF BABIES BORN BEFORE 30 WEEKS' GESTATION AND OVER 60% OF BABIES BORN BEFORE 27 WEEKS' GESTATION.

Researchers: Dr Barbara Lingwood, Professor Paul Colditz, Dr Yvonne Eiby, Dr Layne Wright, Min Kim, Sonia Sam, Professor Eugenie Lumbers (UNSW), A/Professor Ian Wright (University of Newcastle), A/Professor David Osborn (Royal Prince Alfred Hospital), A/Professor Nick Evans (Royal Prince Alfred Hospital).
Email: b.lingwood@uq.edu.au



ABOVE: Professor Paul Colditz

Many preterm babies have poor heart function in the first day of life, which consequently increases their risk of brain injury. The cellular causes of this poor heart function are largely unknown and current treatments are often ineffective.

Dr Barbara Lingwood's research aims to identify the causes of poor cardiovascular function and develop more effective treatments. Her current research builds on earlier findings that the preterm heart is poorly equipped to cope with the physiological changes that happen at birth. It also has a reduced number of the receptors required to respond to current treatments. These findings explain why current treatments are often ineffective and indicate that a different approach is needed.

"If we are able to develop better treatments this has the potential to reduce the number of preterm babies who have cerebral palsy or learning difficulties," Dr Lingwood said.

Current treatments include the drugs dopamine and dobutamine, which act on receptors in the heart to simulate the action of adrenalin and, in turn, heart function.

"They are effective in the adult but their use in the baby assumes the same receptors are present. Our research suggests this is not the case," Dr Lingwood said.

Latest funding will be used to investigate one alternative strategy: a drug therapy used in adults and that does not require the same receptors targeted by current treatments. It targets cellular mechanisms which may be immature or deficient in the preterm heart. Dr Lingwood is also looking into other cellular processes that could be targeted to treat heart-related conditions in neonates.

"If we are able to develop better treatments this has the potential to *reduce the number of preterm babies who have cerebral palsy or learning difficulties,*" Dr Lingwood said.

CRITICAL

change

BACKGROUND: Professor Paul Colditz

The birth process can be stressful for a newborn baby. When things don't go smoothly the newborn's brain is *extremely vulnerable* to hypoxic (low oxygen) injury.

FAMILY

care

A HEALTHY START TO LIFE FOR VULNERABLE INFANTS

Understanding the newborn brain is vital to learn why current treatment of neonatal seizures is ineffective – and to *pave the way to better treatments*.

FAST FACT

EVERY DAY IN AUSTRALIA, AT LEAST FOUR NEWBORNS SUFFER BRAIN INJURY DUE TO LACK OF OXYGEN AND BLOOD FLOW TO THE BRAIN.

The birth process can be stressful for a newborn baby. When things don't go smoothly the newborn's brain is extremely vulnerable to hypoxic (low oxygen) injury. If the blood flow and oxygen delivered to the baby during birth is disrupted, brain injury can result and this can have long-term consequences.

One of the most significant indicators of underlying hypoxic brain injury is the development of seizures in the first day or two of life.

Current drugs used to treat seizures are effective in children and adults; however, they are largely ineffective in controlling seizures in newborn babies. There is also information to suggest neonatal seizures actually worsen the brain injury.

Preventing long-term sequelae from traumatic birth events, such as perinatal asphyxia, will reduce the long-term health care costs associated with caring for infants with hypoxic brain injury.

Stephanie Miller (PhD student) and her colleagues are investigating the protein receptors currently targeted by seizure medications to see which are most abundant in the newborn brain and whether these receptor levels are altered after hypoxia-ischaemia (lack of oxygen and blood flow).

Using a model closely representing the human condition, researchers will examine what happens in the brain following a hypoxic incident – in particular, what causes seizures. Results will lead to further research into the treatment of seizure disorders.

"Determining the most abundant functional GABA-A receptors present in the newborn brain will help steer more effective therapeutic treatment of neonatal seizures. We have looked at some receptor subunits across the development of a couple of brain regions and will look at the changes in these receptor subunits after a hypoxic insult," Miller said.

Researchers: Stephanie Miller, Dr Tracey Bjorkman, Professor Paul Golditz
Email: s.odriscoll@uq.edu.au



05

INFECTION *AND IMMUNITY*

COMBATING ANTIBIOTIC-RESISTANT SUPERBUGS
PREVENTING AN EPIDEMIC OF A FATAL DISEASE IN AUSTRALIA

COMBATING ANTIBIOTIC-RESISTANT SUPERBUGS

Dr Hanna Sidjabat is currently researching a new antibiotic-resistant superbug that is emerging worldwide: New Delhi Metallo- β -lactamase (NDM-1).

FAST FACT

THE PREVALENCE OF NDM-1 WAS FOUND TO BE 6.9% IN A HOSPITAL IN NORTH INDIA AND 5.8% IN MUMBAI. NDM-1 WAS FOUND IN THE GUT FLORA OF PATIENTS IN PAKISTAN AT A RATE OF 18.5%.



ABOVE: NDM-1 Research

NDM-1 is a gene carried by bacteria and causes the strain to be resistant to carbapenems – the most powerful antibiotic available, set aside for last-resort emergencies.

The NDM-1 gene usually resides in the plasmid of different bacteria, most commonly *E.coli* and *K. pneumoniae*. The ability of this gene to transfer and jump horizontally, as well as to inhabit various bacteria is worrying as it could create infections that spread rapidly and can't be treated.

"We predict this gene is spreading worldwide faster than previously reported antibiotic-resistant genes," Dr Sidjabat said.

First discovered in a Swedish patient in 2008, this superbug has emerged worldwide in at least 20 countries (including Australia) and in 13 bacterial species. Most cases were traced back to India or Pakistan, where patients had travelled or received medical treatment such as cosmetic surgery.

Dr Sidjabat's research is the first to analyse the genetic environment and complete plasmid sequence of NDM-1 plasmids in Australia. Her goal is to provide an understanding of NDM-1 gene mobilisation and to predict its further spread in bacteria.

Part of her study also involves developing a molecular typing method to enable early detection of this bacterium. Using real-time diagnostic techniques, she will detect NDM-1 and other antibiotic resistant bacteria from clinical specimens.

"To understand the spread of NDM-1 gene, we will sequence the entire NDM-1 plasmids from clinical isolates and from normal flora" Sidjabat said.

Researchers: Dr Hanna Sidjabat, Professor David Paterson, Alexander Wailan
Email: h.sidjabat@uq.edu.au

PREVENTING AN EPIDEMIC OF A FATAL DISEASE IN AUSTRALIA

Researchers aim to decrease the prevalence of *Clostridium difficile* disease – the leading cause of hospital acquired infection.

FAST FACT

AN OUTBREAK OF *C.DIFFICILE* CAUSED BY THE 'INTERNATIONAL EPIDEMIC STRAIN' HAS BEEN RESPONSIBLE FOR MORE THAN 2000 DEATHS IN QUEBEC SINCE 2002.

C.difficile bacterium can cause diarrhoea, fever, abdominal pain, and even death. The incidence and severity of *C.difficile* disease is increasing worldwide, with severe cases now being seen more often in pregnant women and individuals with no recent exposure to antibiotics – both groups who are considered to be low-risk.

In one of the world's largest studies, Professor David Paterson and a team of researchers will assess the risk of outbreaks of severe *C.difficile* disease in Australia, and identify interventions to successfully reduce the risk of outbreaks.

Because culturing, genotyping and screening of *C.difficile* is not routinely carried out in Australian hospitals and laboratories, this research will provide a much needed evidence base to formulate effective preventative interventions for this disease.

"This research will allow us to identify interventions that will successfully reduce the risk of outbreaks of *C.difficile* disease," Dr Charlotte Huber said.

In order to learn how this bacterium is spreading and to decrease the risk of outbreak, Dr Huber and her counterpart at Sir Charles Gairdner Hospital, Perth, are conducting a carrier study.

"In the carrier study, we want to see how many patients carry the bacterium without being sick from it, and how dangerous the different strains of *C.difficile* are," Dr Huber said.

Changes in the genotype profile will be monitored over a three-year period. Because *C.difficile* can also be found in people without causing disease, researchers will also be investigating the role of asymptomatic infection in hospital patients, and whether it contributes to the spread of the organism.

Researchers: Dr Charlotte Huber, Professor David Paterson, Sally Havers, Tiffany Brown, Professor Archie Clements, Professor Tom Riley and Dr Niki Foster (UWA).
Email: c.huber@uq.edu.au

BACKGROUND: *C.difficile* research



0 6

CANCER

SAVING LIVES THROUGH EARLIER DIAGNOSIS OF ORAL CANCER
MAKING PROGRESS TOWARDS TREATING MALIGNANT SPREAD OF CANCER TO THE BRAIN

SAVING LIVES THROUGH EARLIER DIAGNOSIS OF ORAL CANCER

Researchers are creating a *molecular signature* for oral cancerous and pre-cancerous conditions that *can be used as a diagnostic test*.

FAST FACT

FAST FACT: OVER 640,000 NEW CASES OF ORAL CANCER ARE DISCOVERED AROUND THE WORLD EVERY YEAR. ABOUT 25% OF PEOPLE WITH ORAL CANCER DIE DUE TO DELAYED DIAGNOSIS AND TREATMENT. IF THE CANCER IS FOUND EARLY, THE CURE RATE IS NEARLY 90%.

Researchers: A/Professor Camile Farah, Dr Pauline Ford, Dr Andrew Dalley, Ms Fatima Dost, Ms Kelsey Moore, Ms Sandra Stein, Dr David Fielding (RBWH), Drs Martin Batstone and Maurie Stevens (Head & Neck Clinic at the RBWH), Dr Trevor Holcombe (Logan Beaudesert Oral Health Service), Dr Colin Ades (QML Pathology).
Email: c.farah@uq.edu.au



ABOVE: Professor Camile Farah

Research by A/Professor Camile Farah and his team has recently shown autofluorescence imaging is useful as a diagnostic aid in detecting oral cancerous and pre-cancerous conditions of the mouth.

Now the researchers are further examining the molecular profile of surgical margins using this technology, and are currently undertaking a large scale population-level screening study of high-risk patients using autofluorescence imaging.

Farah and his team are hopeful they will develop a technology and protocol that will allow early detection of oral cancer and oral pre-cancer. This will improve patient survival and minimise the morbidity associated with aggressive treatment regimes used for oral cancer.

A/Professor Farah is program leader of the Oral Cancer Research Program at UQCCR. This program leverages work regarding various bio-markers of oral cancer and oral epithelial dysplasia which are either unique to the oral mucosal situation or shared across malignancies in other sites.

The program uses a range of technologies, including optical fluorescence imaging, to diagnose oral cancer at its earliest stages, therefore allowing early forms of treatment to be applied with maximal effect. Additionally, the group is investigating the usefulness of narrow band imaging for head and neck resection margin delineation, and unravelling its molecular profile.

The program is also investigating the role that cancer stem cells play in the propagation and recurrence of cancerous and pre-cancerous lesions.

With the use of early detection technology, and molecular profiling of surgical margins, oral cancers will not only be able to be detected at an earlier stage, but tumours can be removed with clearer margins, therefore improving mortality and morbidity from these cancers.

A grant from Cancer Australia was awarded for research relating to autofluorescence imaging (\$550,000), while another grant from Cancer Council Queensland was awarded to study the molecular profile of oral cancer stem cells (\$200,000). Further funding has recently been granted under the Queensland Government's Smart Futures Program (\$1.5M).

MAKING PROGRESS TOWARDS TREATING MALIGNANT SPREAD OF CANCER TO THE BRAIN

Researchers aim to *develop new drugs to target brain metastases* – a disease usually fatal within 12 months of diagnosis.

FAST FACT

BRAIN METASTASES AFFECTS 10–30 % OF ALL CANCER PATIENTS, AND 10–16% OF BREAST CANCER PATIENTS.

Researchers: Professor Sunil Lakhani, Professor Sean Grimmond (IMB), Dr Nic Waddell (IMB), Professor Georgia Chenevix-Trench (QIMR), Professor Kum Kum Khanna (QIMR), Dr Leonard Da Silva, Dr Jodi Saunus, Dr Peter Simpson, Majid Momeny.
Email: j.saunus@uq.edu.au

Brain metastasis (development of one or more secondary tumours in the brain) is a fatal complication of many cancers, including breast cancer. Current treatments for this disease – surgery, whole-brain radiation therapy, radiosurgery – prolong survival by months; however, they are not curative and are associated with undesirable neurological side effects.

This disease was earmarked as a major area of unmet clinical need by the American National Cancer Institute in 2009.

Dr Jodi Saunus and other members of Professor Sunil Lakhani's team aim to gain new knowledge about genes, proteins and processes involved in development of brain metastases (brain mets). This knowledge is urgently needed in order to discover new ways to treat the disease.

"There are currently no therapies available that effectively treat this complication, and we desperately need to develop new drugs that specifically target features of the brain mets and/or prevent their establishment," Dr Saunus said.

Researchers aim to address this by clarifying the processes by which cancer cells detach from the primary tumour (including the specific molecules involved), become mobile, and then actively migrate into brain tissue before establishing a new tumour. This knowledge will be used to develop new therapeutics for brain metastasis.



ABOVE: Cancer research

In 2010, the research team published a molecular investigation of human brain mets tissue samples, surgically resected from breast cancer patients. Results suggested a protein that is expressed on the surfaces of cancer cells (HER3) could be involved in colonisation of brain tissue by breast cancer cells. The team is now using different brain mets disease models to investigate exactly how this occurs.



07

CLINICAL *COLLABORATIONS*

SAVING LIVES THROUGH EARLIER DIAGNOSIS OF ORAL CANCER
MAKING PROGRESS TOWARDS TREATING MALIGNANT SPREAD OF CANCER TO THE BRAIN

PROSTATE CANCER – IS ROBOTIC SURGERY *BETTER VALUE FOR MONEY?*

The first randomised study of robotic and open prostatectomy will help prostate cancer patients and health services *make informed treatment decisions.*

FAST FACT

PROSTATE CANCER IS THE SECOND MOST COMMON LIFE-THREATENING CANCER IN AUSTRALIAN MEN, WITH ONE IN 11 BEING DIAGNOSED IN THEIR LIFETIME.

Researchers: Professor Robert 'Frank' Gardiner, Dr Nigel Dungleison & Dr John Yaxley (RBWH), A/Professor Suzanne Steginga & Dr Stefano Occhipinti (Cancer Council Qld), Professor Rob Carter (Deakin University), Dr Scott Williams (Peter Macallum Cancer Centre), Professor Martin Lavin.
Email: f.gardiner@uq.edu.au

In Australia, robotic surgery is only available from selected urologists in major metropolitan centres. Individual patients who opt for this surgery are out of pocket \$22,000.

For a newly diagnosed man to make an informed decision on his treatment preference – including the possibility of robotic surgery – more information is needed to assess and compare the costs, quality of life, and benefits from a survival viewpoint.

This research, conducted by Professor Frank Gardiner and his collaborators, will address this knowledge gap by undertaking the first randomised trial comparing robotic with open prostatectomy.

This clinical trial will:

- examine the clinical oncological results from both open and robotic approaches
- compare economic costs to individual patients and health services
- assess quality of life and psychosocial outcomes from both treatments
- determine life-expectancy profiles for patients prospectively.

Since 2010, when the trial began, 132 patients have been recruited. Outcomes are being measured pre-operatively and at three, six, 12 and 24 months post surgery.

Researchers believe patients who receive robotic prostatectomy will have improved quality of life in the short term – that is, improved bowel and erectile functions, less time out of work, less pain and fatigue. On the other hand, patients who receive open prostatectomy have a huge cost advantage.

This research, conducted by Professor Frank Gardiner and his collaborators, will *address this knowledge gap* by undertaking the first randomised trial *comparing robotic with open prostatectomy.*

EFFECTIVE

solutions



HELPIng Mealt ime Behaviour
– aimed at *improving feeding
difficulties/range of dietary
intake* through specific food
goals and a reward system.

POSITIVE

messages

NEW HEALTHY EATING STUDY TO ASSIST CHILDREN WITH FEEDING ISSUES

The Healthy Eating Learning Program (HELP) study – led by the Queensland Children's Medical Research Institute (QCMRI) – aims to *assist children with feeding difficulties* and/or a restricted oral intake, by increasing the volume and variety of foods eaten.

FAST FACT

UP TO 20% OF
TYPICALLY DEVELOPING
CHILDREN PRESENT
WITH SOME FEEDING
DIFFICULTIES, AND
APPROXIMATELY 85%
OF CHILDREN WITH
DISABILITIES HAVE
DIFFICULTIES WITH
FEEDING.

Researchers: Dr Pamela Dodrill (RCH);
Meghann O'Connor, Jeanne Marshall, Jane
Morgan, Nadine Frederiksen, Professor
Geoff Cleghorn (School of Medicine, UQ).
Email: helpstudy@uq.edu.au

Hosted by UQCCR, the HELP study is a randomised controlled trial that will evaluate the clinical benefits and cost effectiveness of different feeding interventions for children.

Although most children's hospitals offer multidisciplinary feeding services to children with feeding difficulties, intervention programs vary significantly between facilities.

This study will compare two different intervention methods:

1. HELPIng Mealt ime Behaviour – aimed at improving feeding difficulties/range of dietary intake through specific food goals and a reward system.
2. HELPIng Mealt ime Experience – designed to improve feeding difficulties/ range of dietary intake by exposing children to a range of foods in play-based activities.



ABOVE: HELP Clinic



ABOVE: HELP Clinic

Results will allow researchers to determine which interventions result in the best outcomes for children in terms of overall nutrition and development, as well as family satisfaction.

Children aged one to 6 years who present with feeding difficulties are invited to participate in the study. Feeding issues include:

- children who eat a limited range of textures and foods (this includes obese but malnourished children)
- children who display problematic behaviour at mealtimes
- children who experience prolonged mealtime duration
- families who experience stress related to their child's eating patterns.

The HELP study will be the first published study to compare different intervention options. Research results will guide future clinical practice throughout Australia and overseas.

08

COMMUNITY *ENGAGEMENT*

BREAST CANCER AWARENESS

ADELAIDE FESTIVAL OF IDEAS

GOMA TALKS

HEALTHY EATING LEARNING PROGRAM (HELP) CLINIC

HOSTING HIGH SCHOOL STUDENTS FROM SINGAPORE

PARLIAMENT ADDRESS

SEMINAR SERIES

REVIEWING INDIGENOUS HEALTH CARE

THE SOUTHPORT SCHOOL STUDENTS VISIT

BREAST CANCER AWARENESS

As part of Breast Cancer Awareness Month, Dr Jodi Saunus presented at an annual fundraising Pink Ribbon Breakfast for breast cancer research. Hosted by the Brisbane North Chamber of Commerce, guests gathered at the Kedron Wavell Services Club to raise awareness and funds for breast cancer.

ADELAIDE FESTIVAL OF IDEAS

In 2011 Dr Bradley Partridge spoke at the Adelaide Festival of Ideas. As part of a panel discussion titled “Immortality ... Reality?” Dr Partridge joined fellow panelists Dr Fiona Wood, Professor Julian Savulescu and Dr Paul Willis. Professor Wayne Hall also presented “The Addictive Brain” and “Coerced Treatment” at the festival.

GOMA TALKS

Professor Wayne Hall was a guest panelist for the GoMA Talks discussion program. The session “Mastering the Mind: Do our brains control our behaviour?” explored the mind and brain from a range of perspectives, including psychology, current research in neuroscience and the uses and criticisms of emerging ideas and approaches.

HEALTHY EATING LEARNING PROGRAM (HELP) CLINIC

UQCCR hosted the first clinic to evaluate different feeding interventions for children with feeding difficulties and/or a restricted range of dietary intake. The HELP study will allow researchers to determine which interventions result in the best outcomes for children in terms of overall nutrition and development, as well as family satisfaction. Results of this study will guide clinical practice throughout Australia and overseas.

HOSTING HIGH SCHOOL STUDENTS FROM SINGAPORE

UQCCR was host to 10 students from the National University of Singapore High School of Mathematics and Science. The purpose of the placement was to enable these final-year students the opportunity to get a comprehensive overview of research options and experiences within the medical and health sciences. The students spent their week visiting labs and talking to researchers at UQCCR about their projects.

PARLIAMENT ADDRESS

2011 saw a revived debate about abortion law reforms in Australia. Dr Leslie Cannold (2011 Australian Humanist of the Year) presented “The Courage to Make History: Transforming the law on abortion in Australia” to parliament in October. Introducing Dr Cannold’s address, Professor Fisk spoke about Queensland’s outdated termination laws, stating “our uncertain and outmoded laws are a serious problem for women and the doctors who care for them, and a major impediment to the delivery of high quality care to individual women”.

SEMINAR SERIES

Throughout 2011, UQCCR ran a weekly seminar series. Regular seminars assist in bringing together clinicians, researchers, students and staff – from UQCCR, The Queensland Institute of Medical Research, The Royal Children’s Hospital and The Royal Brisbane and Women’s Hospital.

REVIEWING INDIGENOUS HEALTH CARE

Professors Murray Mitchell and Greg Rice went to Thursday Island in 2011 to explore ways UQCCR could help improve indigenous health care. They conducted a review of current health care systems, with a particular focus on prenatal care.

THE SOUTHPORT SCHOOL STUDENTS VISIT

In 2011 UQCCR welcomed 40 of The Southport School’s most gifted students. With an interest in science and medicine, the students learned about research conducted at UQCCR. They attended presentations, spoke with researchers and toured the laboratories.



BACKGROUND: GOMA Talks, featuring Professor Wayne Hall



09

FUTURE *RESEARCH*

When fully operational in 2013, the CCD will focus on the delivery of next generation diagnostics that, rather than relying on a single marker to aid clinical decision-making, will simultaneously measure a panel of informative markers.

BACKGROUND: UQCCR Building

To bridge the gap between research and improved community health, UQCCR is establishing a new Centre for Clinical Diagnostics (CCD).

The rationale behind the CCD is to conduct research in a way that reduces the time to delivery and implementation of new diagnostic tests into clinical and routine patient care.

The CCD will be a regulated research, development and evaluation facility that conforms with International Organisation for Standardisation guidelines and is accredited by the National Association of Testing Authorities Australia. This means the work conducted by UQCCR scientists and clinicians within the CCD will be ready for submission to regulatory authorities such as the Therapeutic Goods Administration Australia or the US Food and Drug Administration. This new initiative has the potential to save both time and resources within the biotechnology sector and will deliver a new generation of industry-ready researchers.

The new Centre occupies a complete floor within UQCCR and more than \$3 million from Therapeutic Innovation Australia has been secured to implement new platform technologies within the facility, including mass spectrometry and protein solution array.

When fully operational in 2013, the CCD will focus on the delivery of next generation diagnostics that, rather than relying on a single marker to aid clinical decision-making, will simultaneously measure a panel of informative markers.

Such approaches improve the quality of information provided to doctors and better inform their patient management decisions. The key to improving health care is the early and accurate diagnosis of disease risk.

The initial objective of the CCD is to work in conjunction with UQCCR's newly established Pre-conception and Early Pregnancy Clinic (PEPC) to deliver tests that can be used at a woman's first antenatal visit to assess the likelihood that her pregnancy is normal and healthy. At present, it is difficult to reliably assess the risk of complications of pregnancy during the first trimester. Complications of pregnancy, including poor fetal growth, pregnancy-induced high blood pressure and diabetes are not usually identified until mid- or late pregnancy. At these stages little can be done to rectify the problem. If the risk of developing such complications can be assessed using new diagnostic approaches then interventions (including diet and lifestyle changes) could be implemented early to decrease the severity or prevent the problem occurring. The CCD has been specifically developed to build these new diagnostic tools.

Once fully operational in 2013, PEPC will expand its focus to consider how pre-conception health and wellbeing can be improved to ensure the best possible start to life for future generations.





10

APPENDICES

APPENDIX 1 – RESEARCH GRANTS 2011

APPENDIX 2 – UQCCR PUBLICATIONS 2011

APPENDIX 3 – AWARDS 2011

APPENDIX 4 – CONFERENCE PRESENTATIONS 2011

APPENDIX 5 – SEMINARS HELD AT UQCCR 2011

APPENDIX 6 – RESEARCH HIGHER DEGREE STUDENTS 2011

APPENDIX 7 – CLINICAL TRIALS 2011

APPENDIX 8 – STAFF LISTING 2011

APPENDIX 1

RESEARCH GRANTS 2011

New grants awarded in 2011 with a UQCCR lead investigator totalled \$15,487,068. *UQCCR researchers are indicated in bold.*

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	VALUE
RBWH Foundation	Avent M, Paterson D , Roberts J, Lipman J, Forrest A.	Pilot Study of pharmacokinetic and pharmacodynamic assessment of monotherapy versus combination therapy for the management of gram negative bacteraemia	2011-2012	35,000
Queensland Health	Bahnisch M, Capra S.	Wide Bay Health Service District interprofessional education and training developments	2011-2011	99,519
Lions Medical Research Foundation	Bjorkman S.	Lions Senior Medical Research Fellowship: Seizures and injury in the newborn hypoxic-ischemic brain	2011-2014	330,000
Sanofi - Synthelabo Australia Pty Ltd	Byrne G.	Clinical Study No. DRI10734, [.....] tolerability of SAR110894D at the doses of 0.5 mg, 2 mg, and 5 mg/day for 24 weeks in patients with mild to moderate Alzheimer's Disease on stable donepezil	2011-2013	17,478
Novotech (Australia) Pty Ltd	Byrne G.	CONCERT PLUS: An Open-Label Extension of the CONCERT Protocol (DIM18) Evaluating Dimebin (Latrepirdine) in Patients with Alzheimer's Disease	2011-2013	3,120
National Health and Medical Research Council	Callaway L , McIntyre H, Dekker M , Tobin J, Wilkinson S, O'Rourke P, McSweeney C.	A randomized controlled trial of probiotics to prevent gestational diabetes	2012-2014	828,718.50
UQ - Early career research grant scheme	Carter A, Dissanayaka N , O'Sullivan J, Hall W.	Perspectives and experiences of Parkinson's disease patients with drug-induced impulse control disorders: A qualitative study	2012	36,000
National Health and Medical Research Council	Colditz P , Sanders M, Boyd R, Pritchard M , Gray P, O'Callaghan M, Slaughter V, Whittingham K.	Enhanced parenting capacity to improve developmental outcomes in preterm infants	2012-2016	996,337
Royal Brisbane and Women's Hospital Near Miss Funding	Colditz P	A parenting program for infants born very preterm	2011-2011	33,000
Australian Research Council	Copland D , McMahon K, Silburn P , Angwin A, Crosson B.	Control of language production and its neural substrates	2012-2014	489,252

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	VALUE
Group of Eight	Copland D , Floel A, Meinzer M, Rodriguez A.	Enhancing language learning through physical exercise and cortical stimulation	2012-2013	15,400
RBWH Foundation	Dissanayaka N, Silburn P , O'Sullivan J, Byrne G, Copland D , Mellick G, Marsh R.	Improving diagnostic methods of anxiety disorders in Parkinson's disease: Phase 1	2011	33,000
Parkinson's Queensland Inc	Dissanayaka N, Silburn P, Byrne G , O'Sullivan J, Copland D, Mellick G, Marsh R.	Novel methods for early detection of anxiety in Parkinson's disease	2011	25,000
RBWH Foundation	Dissanayaka N, Silburn P, Copland D, Byrne G , O'Sullivan J, Marsh R, Angwin A, Mellick G.	Improving diagnostic methods of anxiety disorders in Parkinson's disease: Phase 2	2012	35,000
National Health and Medical Research Council	Duncan E.	New Approaches for gene mapping in Osteoporosis	2012-2014	867,452
Australian Dental Research Foundation	Farah CS, Dalley A.	In vitro analysis of cellular genotoxicity in human oral epithelial cells after treatment with alcoholic mouthwashes. Part 2	2011-2011	8,250
National Health and Medical Research Council	Gartner C , Borland R.	An open-label randomised pragmatic policy trial of nicotine and smokeless tobacco products for short-term cessation assistance or long-term substitution in smokers	2012-2015	1,014,392.50
University of Queensland	Gartner C.	ResTeach 2009 0.2 FTE School of Population Health	2011-2011	43,232
Multiple Sclerosis Research Australia	Greer J , Pender M, Pow D.	Understanding the interplay between the spectrum of glial and neuronal autoantibodies and clinical outcome in multiple sclerosis	2012-2013	50,000
Australian Research Council	Hall W, Gartner C, Partridge B, Carter A, Lucke J.	A disease of the brain": How do neurobiological explanations of addiction influence the attitudes and behaviour of smokers?	2012-2014	143,624
National Health and Medical Research Council	Khostrotehrani K, Fisk N, Chan J.	Fetal endothelial progenitors form the placenta as a source for cell therapy	2012-2014	371,250
National Health and Medical Research Council	Khostrotehrani K.	NHMRC Career Development Fellowship (Clinical; Level 1): Stem and progenitor cell contribution to skin wounds and homeostasis.	2012	411,076
National Multiple Sclerosis Society-US	Khostrotehrani K, McCombe P, Greer J.	Role of maternofetal chimerism in transferring susceptibility to MS	2011-2012	36,507
University of Queensland - Firstlink Fund	Khostrotehrani K , Prow T.	Routine assay to determine response to Braf inhibition therapy in melanoma	2011	4,500

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	VALUE
University of Queensland - CIEF	Khostrotehrani K , Prow T.	Routine assay to determine response to Braf inhibition therapy in melanoma	2012	145,300
National Health and Medical Research Council	Lakhani S , Simpson S , Waddell N, Da Silva L, Stratton M, Cummings M.	Defining therapeutic options for brain metastases	2012-2014	506,011
National Health and Medical Research Council	Lavin M , Kozlov S, Graham M.	Role of oxidative stress in activating ATM to protect against neurogeneration	2012-2015	551,010
National Health and Medical Research Council	Lavin M , Wolvertang E.	Reprogramming of Ataxia Telangiectasia fibroblasts to generate iPS cells	2012-2015	581,010
National Health and Medical Research Council	Lavin M .	Use of snake venom prothrombin activators in blood collection tubes to produce high quality serum to improve patient outcomes	2012-2015	277,450
National Health and Medical Research Council	Lavin M .	NHMRC Research Fellowship (SPRF)	2012-2016	869,860
National Health and Medical Research Council	Lingwood B , Wright I, Lumbers E, Colditz P .	Supporting heart function in preterm babies	2012-2014	670,920
University of Queensland	Lucke J , Racine E.	UQ Travel Awards Category 2 - Associate Professor Jayne Catherine Lucke	2011-2011	3823.26
Motor Neuron Disease Research Institute of Australia	McCombe P , Henderson R, Rose S , Wallace R, Petit A . & Robinson G.	MND: Not a Simple Disease	2012	100,000
National Heart Foundation	McCombe P .	Nature and timing of inflammation after acute ischaemic stroke	2011-2012	113,520
The University of Queensland (CIEF)	Mitchell M , Rice G .	Early screening of pregnancy	2011-2013	75,000
Therapeutic Innovation Australia	Mitchell M .	A Queensland Node of Translating Health Australia	2012	3,000,000
The University of Queensland New Staff Start Up Grant	Partridge B .	Physician attitudes towards the non-medical use of prescription stimulants for cognitive enhancement.	2011-2012	12,000
The University of Queensland (CIEF)	Rice G , Mitchell M .	Who's at risk of preterm labour	2011-2013	70,000
RoCan, Rotary Club of Williamstown	Rice G .	Professorial Fellow in Ovarian Cancer Research	2011-2013	150,000
The University of Queensland	Rodriguez A .	Effects of Exercise on Word Learning in Individuals with Aphasia	2012	2,199

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	VALUE
National Health and Medical Research Council	Rose S , Boyd R , Whittaker A, Thomas P, Fisk N .	Improved diagnostic imaging of primary brain tumours	2012-2015	399,000
National Health and Medical Research Council	Rose S , Boyd A, Whittaker A, Thomas P, Fay M, Fisk N .	The development of innovative multiplexed molecular imaging technology targeting improved diagnostic imaging of glioblastoma multiforme	2012-2014	389,925
The A-T Children's Project, USA	Rose S , Sinclair K , Lavin M .	Investing connectivity and neuro-inflammation within corticomotor networks in ataxia-telangiectasia: improving our understanding of the clinical phenotype.	2012-2014	122,000
Royal Brisbane and Women's Hospital Research Foundation	Rose S , Boyd R , Whittaker A, Thomas P, Fay M.	Improved diagnostic imaging of primary brain tumours	2011	40,000
Australian Infectious Diseases Research Centre	Sidjabat H , Paterson D , Beatson S, Schembri M.	NDM-1 (New Delhi Metallo-β-lactamase) plasmid sequencing of NDM-1 producing Enterobacteriaceae from Australia and New Zealand	2011	4,400
National Health and Medical Research Council	Simpson S , Ragan M.	A systems biology approach to defining therapeutic targets in breast cancer.	2012 -2014	612,350
Queensland University of Technology	Simpson P , Chopin L, Lakhani S , Hill M, Bennet I.	Understanding the heterogeneity of invasive ductal breast cancers - a proteomic approach for the discovery of biomarkers and novel therapeutic targets (NBCF administered through QUT)	2011-2012	199,967
Royal Brisbane and Women's Hospital	Walker PJ , Askew CD, West MJ, Green S, Leicht AS, Russell FD.	Improving exercise capacity and cardiovascular risk after peripheral arterial disease surgery	2011-2011	30,000
Royal Brisbane and Women's Hospital	Walker PJ .	Society for Vascular Surgery Vascular Annual Meeting Chicago 2011. Registration and travel costs	2011	11,865
National Health and Medical Research Council	Walsh T , Schembri M, Beatson S.	Evolution and pathocenicity of NDM-1 positive Escherichia coli	2012-2014	622,350

UQCCR received two equipment grants as part of the 2011 Major Equipment Initiative. *UQCCR researchers are indicated in bold.*

MAJOR CONTRIBUTOR	INVESTIGATORS	PROJECT TITLE	DATES	VALUE
University of Queensland	Mitchell M, Mattick J, Rice G, Pow D, Paterson D.	Next generation sequencing - towards personal (pharmaco) genomics	2011	600,000
University of Queensland	Finnegan S, Copland D, Colditz P, Boyd R, Breakspear M.	Advancing acute brain monitoring to improve outcomes for neurocritical patients	2011	41,000
National Health and Medical Research Council	Colditz P, Lingwood B, Bjorkman S, Pow D, Chen C.	Blood gas analyser	2011	50,088

New grants awarded in 2011 where a UQCCR investigator is part of the research team totalled \$27,427,306. *UQCCR researchers are indicated in bold.*

GRANTING BODY	INVESTIGATORS (CI'S ONLY NOT AI'S)	PROJECT TITLE	DATES	TOTAL GRANT AMOUNT
National Health and Medical RC Project Grant	Gillies M, Shen W, Barnett N.	Glial-neuronal-vascular interactions in a novel transgenic model of Muller cell dysfunction	2012-2014	605,355
RBWH Private Practice Trust	Donovan T, Bjorkman S, Robertson T, Colditz P.	Qld Perinatal Brain Bank	2011	40,000
UQA-UQ Bilateral Research Collaboration Award	Pachana N, Starkstein S, Byrne G, Bucks R, Dissanayaka N.	Cognitive behaviour therapy to treat depression and anxiety in Parkinson's disease	2012-2012	18,000
Australian Learning & Teaching Council	Gray K, Butler-Henderson K, Meader A, Chenery H.	Curriculum renewal to build e-health capabilities in health professions: Developing a national framework and a national movement.	2011-2012	200,000
Parkinson's Queensland Inc (PQI) Seeding Grant Scheme	Angwin A, Copland D, McMahon K, Dissanayaka D, Silburn P.	Cognitive sequelae in Parkinson's disease: Identifying the neural substrates	2012	24,979
Australian Dental Research Foundation	Abdul Majeed A, Farah CS.	Immunohistochemical analysis of various candidate markers in oral epithelial dysplasia.	2011	5,000
Australian Dental Research Foundation	Abdul Majeed A, Farah CS.	Gene expression profile alteration during oral cancer progression	2011	15,000

GRANTING BODY	INVESTIGATORS (CI'S ONLY NOT AI'S)	PROJECT TITLE	DATES	TOTAL GRANT AMOUNT
UMAT Research Consortium	Thistlewhaite L, Eley D, Parker M, Farah CS, Morgan P, Wilkinson D, Canny B, Zhang J, Brazil V.	UMAT: A definition and exploration of fitness for purpose	2011	99,912
ClinEdQ, Queensland Health	Walsh L, Farah CS, Turner C, Ford P, Chai L.	The role of the Oral Health Educator (Dental Educator): development of a model.	2011	98,504
ClinEdQ, Queensland Health	Ford P, Farah CS, Walsh L.	Expanding the role of the Oral Health Therapist in Health Care	2011	48,257
National Stroke Foundation Research Grant	Sheikh N, Finnigan S, Wong A, Read S.	Quantitative Electroencephalography in Stroke	2012-2013	20,000
RBWH Foundation	Sheikh N, Wong A, Read S, Finnigan S.	Role of Quantitative EEG in diagnosis, prognostication and management of Acute Stroke	2012	30,000
National Health and Medical Research Council Singapore	Chan J, Choolani MA, Fisk N.	Generation of highly osteogenic bone tissue-engineered graft for treatment of fracture non-union – A Pre-Clinical to Phase 1 Study.	2011-2013	1,400,000
National Health and Medical Research Council	Chambers S, Smith D, Berry M, Lepore S, Foley E, Occhipinti S, Frydenberg M, Gardiner RA.	A randomised controlled trial of a mindfulness intervention for Men with advanced Prostate Cancer	2012-2014	706,243.25
National Health and Medical Research Council	Clements M, Smith D, O'Connell D, Etzioni R, Gardiner RA.	Testing & treatment for Prostate Cancer in Australia: epidemiology and modelling	2011-2013	518,390
Griffith University	Mueller J, Ort C, Gartner C, Hall W.	Evaluation of illicit drug use patterns through wastewater analysis (NIRAP through Griffith University, Australian Future Forensics Innovation Network - AFFIN Project 7)	2011-2012	224,235
Queensland Health Forensic and Scientific Services	Mueller J, Carter S, White G, Gartner C.	Estimating illicit drug usage through analysis of drugs in wastewater	2011-2012	82,797
National Health and Medical Research Council	Mattick R, Martire K, Bonevski B, Borland R, Doran C, Hall W, Farrell M.	Randomised controlled trial of a financial counselling intervention and smoking cessation assistance to reduce smoking in socioeconomically disadvantaged groups	2012-2015	1,951,192.40
National Health and Medical Research Council	Degenhardt L, Hall W, Cohen M, Lintzeris N, Nielsen S, Bruno R, Shand F, Farrell M.	Pharmaceutical opioid prescription for chronic pain in Australia: Trajectories of prescribing, risk of adverse events, and predictors of Harm	2012-2015	1,041,601
Alcohol Education & Rehabilitation Foundation Ltd.	Douglas H, Hammill J, Hall W.	FASD within the Criminal Justice Sector in Queensland	2011-2012	71,340.50

GRANTING BODY	INVESTIGATORS (CI'S ONLY NOT AI'S)	PROJECT TITLE	DATES	TOTAL GRANT AMOUNT
Australian Research Council	Mueller J, Gaus C, Hall W , Sly P, Keller J, Ayoko GGA, Ristovski Z, Harden F, Smith J, Brodie J, Lewis S, Hawker DW.	Ultra-high-performance liquid chromatography ion trap mass spectrometer to develop new capabilities in environmental and human toxicology	2011-2012	420,000
University of Queensland Major Equipment and Infrastructure	Schabrun S, Hodges P , Chipchase L, Jull G, Vicenzino B, Copland D , Tucker K, Bennell K.	Neuro-navigation for basic and clinical research	2011-2011	50,000
National Health and Medical Research Council	Chenevix-Trench G, Lakhani S , Khanna KK.	Molecular determinants of susceptibility and progression in breast cancer	2012-2016	5,604,500
Department of Health and Ageing	Dobson AJ, Byles J, Brown W, Lee C, Pachana N, Mishra G, Loxton D, Lucke J , Sibbritt D.	The Australian Longitudinal Study on Women's Health - Establishment of a new cohort of women born 1989-94; more frequent surveys of women born 1921-26; strengthening of study capacity	2011-2013	2,406,250
Motor Neurone Disease Research Institute of Australia Inc	Noakes P, Woodruff T, Arumugam G, Taylor S, McCombe P .	The role of the innate immune system during the progression of motor neuron disease; the search for new therapeutic targets	2011-2011	77,000
National Health and Medical Research Council	Graves N, Sorrell T, Playford G , Barnett A.	Modelling the cost-effectiveness of therapeutic strategies for invasive candidiasis among the ICU population	2012-2015	276,343.75
Wellcome Trust Grant	Cooper M, Paterson D , Roberts J.	Membrane-targeted antibiotic for complicated skin and skin structure (cSSSI) infections caused by MRSA, VISA, and VRE (methicillin and Vancomycin-resistant S. aureus and enterococci)	2011-2013	5,046,982
NHMRC Centre for Research Excellence	Graves N, Paterson D .	Centre for Research Excellence in Reducing Healthcare Associated Infection	2011-2016	2,495,795
Queensland University of Technology	Jimmieson N, Graves N, Grayson L, Paterson D , White K, Barnett A, Fulop NJ,	Evaluating hand hygiene interventions and their ability to reduce healthcare associated infection (NHMRC Partnership Project administered by the Queensland University of Technology)	2011-2012	33,000
Mason Foundation	Coulson, Rose S , Hort, Byrne.	Measures of cholinergic basal forebrain degeneration as an early screen for Alzheimer's disease	2012-2013	50,000
National Health and Medical Research Council	Boyd R, Ziviani J, Abbott D, Rose S , Macdonell R.	COMBIT: Randomised Controlled Trial of Novel Upper Neurorehabilitation in Congenital Hemiplegia	2011-2014	469,793
National Health and Medical Research Council	Naylor M, Carroll J, Simpson P .	Linking breast development to bone metastasis: Role for the osteogenic transcription factor Runx2 during breast Carcinogenesis	2011-2014	545,470.00
Royal Brisbane and Women's Hospital	Stevens M, Farah CS , Stein S .	The Characterisation of miRNA signatures in the progression of oral dysplasia to oral carcinoma using Next generation Sequencing	2011-2011	33,000.00

GRANTING BODY	INVESTIGATORS (CI'S ONLY NOT AI'S)	PROJECT TITLE	DATES	TOTAL GRANT AMOUNT
National Health and Medical Research Council	Golledge J, Walker PJ , Ahimastos A, Muller R.	Fenofibrate in the management of AbdoMinal aortic anEurysm (FAME)	2012-2014	439,735
National Health and Medical Research Council	Golledge J, Norman P, Rush C, Walker PJ .	Interaction between parathyroid hormone, sclerostin and the wingless pathway in abdominal aortic aneurysm	2012-2016	698,300
National Health and Medical Research Council	Golledge J, Norman P, Walker PJ , Ahimastos A, Dalman R.	TElmisartan in the management of abDominal aortic aneurYsm. (TEDY)	2012-2016	1,105,893
TPCH Foundation	West M, Nataatmadja M, Walker PJ .	Inhibition of inflammatory activity and metalloproteinase-2 (MMP2) activation limits extracellular matrix degeneration and prevents acute aortic dissection.	2012	100,000
QUT Engagement Innovation Grants	Askew CD, Vautin A, Walker PJ , Hobson-Powell A.	The QUT-RBWH Vascular Rehabilitation Teaching Clinic: A new model for integrating patient care and student training in Exercise Physiology.	2011	29,789
BUPA Health Foundation Award 2010	Golledge J, Kingwell B, Ahimastos A, Walker PJ , Norman P, Tonkin A, Reid C, Bourke B, Quigley F.	National Small Abdominal Aortic Aneurysm Trial	2011-2013	250,000
TPCH Foundation Main Strategic Grant	Nataatmadja M, West M, Walker PJ , Russell F.	Aortic aneurysm and atherosclerosis is associated with the present of abnormal renin-angiotensin regulation	2011	89,650
Australian and New Zealand Society of Anaesthetists Trials Group	Fleming J, Williams B, Silcock R, Walker PJ , Kubler P.	Intra-brachial arterial Guanethidine for the management of Raynaud's phenomenon.	2011	5,000

APPENDIX 2

UQCCR PUBLICATIONS 2011

UQCCR researchers are indicated in bold.

BOOKS 2011

1. **Carter, Adrian., Hall, Wayne** and Illes, Judy (2011). Addiction neuroethics: The ethics of addiction neuroscience research and treatment. London, U.K.: Academic Press.

BOOK CHAPTERS 2011

1. **Dodd, B.** (2011). Developmental speech impairment. In K. Hillari & N. Botting (Eds.) The impact of communication across the lifespan. 41-55. Croydon: J&R Press.

2. **Gartner C., Hall W.** (2011). Challenges in Reducing the Disease Burden of Tobacco Smoking in Ghodse H., Herrman H., Maj M., Sartorius N., editors. Substance Abuse Disorders. London: John Wiley & Sons Ltd.

3. **Hall W., Gartner C.,** Mathews R. (2011). Technical, ethical and social issues in using genetic information to predict addiction liability and treatment response in Carter A., Hall W., Illes J., editors. Addiction Neuroethics. New York: Elsevier.

4. **Gartner C., Partridge B.** (2011). Addiction Neuroscience and Tobacco Control in Carter A., Hall W., Illes J., editors. Addiction Neuroethics. New York: Elsevier.

5. **Gartner C.** (2011). Smokeless Tobacco and Harm Reduction in Scollo M. M., Winstanley M. H., editors. Tobacco in Australia: Facts and Issues Fourth Edition. Melbourne: QUIT Victoria.

6. Gerogiou H.M., Illanes Lopez S and **Rice G.E.** (2011). Novel screening approaches for the early detection of gestational diabetes mellitus. In "Gestational Diabetes", Intech, ISBN 978-953-307-359-0.

7. **Sullivan S.M.** (2011). Grey matter injury in the hypoxic-ischemic neonate. (Editors Costa A. and Villalba E.) Horizons in Neuroscience Research Vol 5. Chapter 3. Nova Science Publishers, Inc. In press. ISBN 978-1-61324-171-4

8. Lee, E.S.M., Rutt, B.K., **Fisk, N.M.,** Wang, S.C., & Chan, J. (2011). Magnetic Resonance Tracking of Stem Cells with Iron Oxide Particles. Intracellular Delivery: Fundamentals and Applications, 5, 459-485.

9. McNeil, M., & **Copland, D.A.** (2011). Aphasia Theory, Models, and Classification. In LaPointe, L. L. (Ed.) Handbook of Aphasia and Brain-Based Cognitive-Language Disorders. New York: Thieme Medical Publishers.

10. **Rice, G. E.** (2011) Proteomics and the Placenta, in The Placenta: From Development to Disease, From Development to Disease (eds H. H. Kay, D. M. Nelson and Y. Wang), Wiley-Blackwell, Oxford, UK. ch26

JOURNAL ARTICLES 2011

1. **Abdul Majeed, A.A. & Farah, C.S.** (2011). Mixed choristoma on the anterior dorsal tongue: A case report and review of the literature. *Oral Surgery*, 41, 26-29.

2. **Abdul Majeed, A.,** Stein, S., Chan, A., & **Farah, C.S.** (2011). Immunoexpression of putative cancer stem cell markers in oral epithelial dysplasia and squamous cell carcinoma. *Oral Oncology*, 47, S46-S46.

3. Agarwal, E., Ferguson, M., Banks, M., **Bauer, J., Capra, S.,** & Isenring, E. (2011). Nutritional status and dietary intake of acute care patients: Results from the Nutrition Care Day Survey 2010. *Clin Nutr.* 1, 41-7.

4. Ahimastos, A.A., Pappas, E.P., Buttner, P.G., **Walker, P. J.,** Kingwell, B.A., & Golledge, J. (2011). A meta-analysis of the outcome of endovascular and noninvasive therapies in the treatment of intermittent claudication. [Meta-Analysis Research Support, Non-U.S. Gov't Review]. *Journal of vascular surgery : official publication, the Society for Vascular Surgery [and] International Society for Cardiovascular Surgery, North American Chapter*, 54(5), 1511-1521.

5. Al-Ejeh, F., **Smart, C.E.,** Morrison, B. J., Chenevix-Trench, G., Lopez, J.A., **Lakhani, S.R.,** Brown, M.P. & Khanna, K.K. (2011). Breast cancer stem cells: treatment resistance and therapeutic opportunities. *Carcinogenesis*, 32(5), 650-658.

6. **Alexander, Kylie A.,** Chang, Ming K., Maylin, Erin R., Kohler, Thomas, Meuller, Ralph, Wu, Andy C., van Rooijen, Nico, Sweet, Matthew J. , Hume, David A., **Raggatt, Liza J. & Pettit, Allison R.** (2011). Osteal tissue macrophages promote in vivo intramembranous bone healing in a mouse tibial injury model. *Journal of Bone And Mineral Research*, 26(7), 1517-1532.

7. **Ambermoon, P, Carter, A., Hall, W.D., Dissanayaka, N. N.,** & O'Sullivan, J. D. (2011). Impulse control disorders in patients with Parkinson's disease receiving dopamine replacement therapy: evidence and implications for the addictions field. *Addiction*, 106(2), 283-293.

8. **Ambermoon, P, Carter, A., Hall, W., Dissanayaka, N.,** & O'Sullivan, J. (2011). Compulsive use of dopamine replacement therapy: a model for stimulant drug addiction? *Addiction*, 107(2), 241-7

9. Amos, K., Yeoh, S.C., & **Farah, C.S.** (2011). Combined Topical and Systemic Clonazepam Therapy for the Management of Burning Mouth Syndrome: A Retrospective Pilot Study. *Journal of Orofacial Pain*, 25(2), 125-130.

10. Andreucci, E., Aftimos, S., Alcausin, M., Haan, E., Hunter, W., Kannu, P., Kerr, B., McGillivray, G., Gardner, R. J. M., Patricelli, M. G., Sillence, D., Thompson, E., Zacharin, M., **Zankl, A.,** Lamande, S.R. & Savarirayan, R.(2011). TRPV4 related skeletal dysplasias: a phenotypic spectrum highlighted byclinical, radiographic, and molecular studies in 21 new families. *Orphanet Journal of Rare Diseases*, 6.

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12. Arnott, W., Sali, L., & **Copland, D.** (2011). Impaired reading comprehension in schizophrenia: evidence for underlying phonological processing deficits. *Psychiatry Res*, 187 (1-2), 6-10.

13. Askarian-Amiri, M.E., Crawford, J., French, J.D., **Smart, C.E.,** Smith, M.A., Clark, M.B., Ru, K., Mercer, T.R., Thompson, E.R., **Lakhani, S.R., Vargas, A.C.,** Campbell, I.G., Brown, M.A., Dinger, M.E. & Mattick, J.S.(2011). SNORD-host RNA Zfas1 is a regulator of mammary development and a potential marker for breast cancer. *Rna-a Publication of the Rna Society*, 17(5), 878-891.

14. **Avent, M.L., Rogers, B.A.,** Cheng, A.C., & **Paterson, D.L.** (2011). Current use of aminoglycosides: indications, pharmacokinetics and monitoring for toxicity. *Internal Medicine Journal*, 41(6), 441-449.

15. **Avent, M.L.,** Teoh, J., Lees, J., Eckert, K.A., & Kirkpatrick, C.M. (2011). Comparing 3 Methods of Monitoring Gentamicin Concentrations in Patients With Febrile Neutropenia. *Therapeutic Drug Monitoring*, 33(5), 592-601.

16. Baade, P.D., Youlden, D.R., Coory, M.D., **Gardiner, R.A., & Chambers, S.K.** (2011). Urban-rural differences in prostate cancer outcomes in Australia: what has changed? *Medical Journal of Australia*, 194(6), 293-296.

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23. Bergen, P.J., Forrest, A., Bulitta, J.B., Tsuji, B.T., **Sidjabat, H.E., Paterson, D.L.**, Li, J. & Nation, R.L. (2011). Clinically relevant plasma concentrations of colistin in combination with imipenem enhance pharmacodynamic activity against multidrug-resistant *Pseudomonas aeruginosa* at multiple inocula. *Antimicrob Agents Chemother*, 55(11), 5134-5142.

24. Bergen, P.J., Tsuji, B.T., Bulitta, J.B., Forrest, A., Jacob, J., **Sidjabat, H.E., Paterson, D.L.**, Nation, R.L. & Li, J. (2011). Synergistic Killing of Multidrug-Resistant *Pseudomonas aeruginosa* at Multiple Inocula by Colistin Combined with Doripenem in an In Vitro Pharmacokinetic/Pharmacodynamic Model. *Antimicrobial Agents and Chemotherapy*, 55(12), 5685-5695.

25. Bhatti, S., Kozlov, S., Farooqi, A.A., Naqi, A., **Lavin, M.**, & Khanna, K.K. (2011). ATM protein kinase: the linchpin of cellular defenses to stress. [Research Support, Non-U.S. Gov't Review]. *Cellular and molecular life sciences : CMLS*, 68(18), 2977-3006.

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29. Boot, B. P., **Partridge, B.**, & **Hall, W.** (2011). Better evidence for safety and efficacy is needed before neurologists prescribe drugs for neuroenhancement to healthy people. *Neurocase*, epub ahead of print.

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33. Brightwell, R.E., & **Walker, P.J.** (2011). Lower Limb Arterio-venous Fistula as a Late Complication of Phlebectomy in a Patient with Ehlers-Danlos Type IV. *European Journal of Vascular and Endovascular Surgery*, 42(5), 696-698.

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35. Broughton, M., **Smith, E.R., Baker, R.**, Angwin, A.J., Pachana, N.A., **Copland, D.A.**, Humphreys, M.S., Gallois, C., Byrne, G.J. & **Chenery, H.J.** (2011). Evaluation of a caregiver education program to support memory and communication in dementia: a controlled pretest-posttest study with nursing home staff. *Int J Nurs Stud*, 48(11), 1436-1444.

36. Brown, J.A., Roberts, T.L., Richards, R., Woods, R., Birrell, G., Lim, Y.C., Ohno, S., Yamashita, A., Abraham, R.T., Gueven, N. & **Lavin, M.F.** (2011). A novel role for hSMG-1 in stress granule formation. [Research Support, Non-U.S. Gov't]. *Molecular and cellular biology*, 31(22), 4417-4429.

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42. **Carter, A., Ambermoon, P., & Hall, W.D.** (2011). Drug-Induced Impulse Control Disorders: A Prospectus for Neuroethical Analysis. *Neuroethics*, 4(2), 91-102.

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APPENDIX 3
AWARDS 2011

NAME	AWARD
Dr Tracey Bjorkman	Beckman Coulter Travel Award, European Society for Pediatric Research Conference New Castle, UK
Professor Paul Colditz	Q-factor top 10 research inputs. University of Queensland
Professor Wayne Hall	Q-factor top 10 research outputs. University of Queensland
Professor David Paterson	BMA Medical Book Awards “Highly Commended” for <i>Kucers’ The Use of Antibiotics 6E</i> entitled “Pharmacology” (2011)
Professor Philip Walker	Professorial promotion and appointment to Headship of the Academic Discipline of Surgery, UQ School of Medicine (November)
Professor Philip Walker	ANZSVS Oration Lecturer, ANZSVS VASCULAR 2011 Annual Scientific Conference. Brisbane (November)
A/Professor Kiarash Khosrotehrani	NHMRC Achievement Award
Dr Adrian Carter	Associate Member Travel Award, Faculty 1000
Dr Y Chen	Travel Award, International Society for Stem Cell Research, Toronto
Dr Nadeeka Dissanayaka	Best presentation award. 7 th International Congress on Mental Dysfunction and other non-motor symptoms in Parkinson’s disease and related disorders. Barcelona, Spain (December)
Dr Jennifer Ryan	Sigma Aldrich Travel Award, Australian Society for Stem Cell Research, Leura, NSW
Dr Hanna Sidjabat	Best Basic Science Oral for The 20 th annual RBWH Health Care Symposium (October)
Dr Hanna Sidjabat	Travel Award, Australian Society for Antimicrobials meeting, Melbourne
Dr Susan Sullivan	Sigma Aldrich Travel Award, Hershey Conference on Developmental Brain Injury, London, UK
Dr Michael Ting	Beckman Coulter Travel Award, International Society for Stem Cell Research, Toronto

APPENDIX 3
STUDENT AWARDS 2011

NAME	AWARD
Kylie Alexander	UQ Dean’s commendation list for outstanding PhDs, the Australian Society for Medical Research QLD Premier’s Award (Postgraduate Category) and the Australian New Zealand Bone and Mineral Society Sol Posen Award
Shiree Heath	Society for Neuroscience – Brain Awareness Video Contest
Min Young Kim	Beckman Coulter Travel Award, Fetal and Neonatal Physiological Society Conference, Palm Cove
Lucie Leveque	Beckman Coulter Travel Award, 41st Annual ESDR (European Society for Dermatological Research) Conference, Barcelona, Spain
Clement Lin	School of Chemistry & Molecular Biosciences 7th Annual Research students symposium 2011 . First prize for best poster presentation by an honours student
Jia Liu	Certificate of Recognition in honour of your Excellence in Undergraduate research (Wednesday Sep. 14 2011). UQ Undergraduate research conference 2011
Jia Liu	School of Chemistry & Molecular Biosciences 7th Annual Research students symposium 2011 . Second Prize for Best poster presentation by an honours student.
Stephanie Miller	Sigma Aldrich Travel Award, Hershey Conference on Developmental Brain Injury, London, UK
Nancy Moxey	MS Research Australia - Progress in MS Research Conference 26-28 October 2011 Young Investigator Award.
Nancy Moxey	3 rd Prize Awarded. 2011 ASMR Postgraduate Student Conference 31 st May 2011
Hanna Reinebrant	New Investigator Award for oral presentation. Perinatal Society of Australia and New Zealand, Tasmania, Australia. (March 2011).
Julie Anne Wixey	Perinatal Society of Australia and New Zealand Early Researcher Career Travel Grant. Perinatal Society of Australia and New Zealand, Hobart, Australia. April 2011
Julie Anne Wixey	Australian Neuroscience Society Travel Award. Australian Neuroscience Society, Auckland, New Zealand. February 2011

APPENDIX 4
CONFERENCE
PRESENTATIONS 2011

NAME	AWARD
Dr Kathryn Buller	Invited speaker: “New targets to attenuate neonatal brain injury after a hypoxic-ischemic insult”. Mater Medical Research Institute, Brisbane (October)
Dr Adrian Carter	Invited paper: “Should we trial deep brain stimulation for addiction? The case for caution”. Carter, A., & Hall, W. (2010). Neuroscience Research Colloquium, Brain Research Centre, University of British Columbia
Professor Paul Colditz	Invited plenary speaker: “Time-Frequency Characterization of Tri-Axial Accelerometer Data for Fetal Movement Detection”. 11th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT-2011)
Professor Paul Colditz	Invited speaker: “Clinical management of the vulnerable baby in the NICU”. One day symposium ‘Transition to postnatal life in the vulnerable fetus’ (December)
Professor Paul Colditz	Invited speaker: “Perinatal Brain Injury: How can we do better in the era of therapeutic hypothermia”. Inaugural Cerebral Palsy – Cure and Prevention Research international forum, Auckland, New Zealand (January)
Dr Nadeeka Dissanayaka	Invited speaker: “Anxiety in Parkinson’s disease”. Older Person’s Mental Health Statewide Symposium, RBWH, Brisbane (September)
Dr Simon Finnigan	Invited speaker: “Investigating longitudinal changes in post-stroke brain physiology using EEG: Comparison with clinical and neuroimaging assessments”. Annual scientific meeting of the Stroke Society of Australasia, Adelaide (September)
Professor Nicholas Fisk	Session Chair and Oral Presentation: “Academic Health Centres in Australia”, U21. Health Sciences Annual Meeting, Seoul (September)
Professor Nicholas Fisk	Invited plenary speaker: “In utero stem cell therapy for genetic disease”. RANZCOG Annual Scientific Meeting, Melbourne (November)
Professor Nicholas Fisk	<i>Invited speaker: “How and when to deliver mono and dichorionic twins”. Asia Pacific – Building Consensus in Gynecology, Infertility and Perinatology Congress (BCGIP) Bangkok, Thailand (November)</i>
Professor Nicholas Fisk	Plenary speaker: “ <i>Termination of pregnancy in Cloud-Cuckoo Land – Righting the Wrong or Wronging the Right</i> ”. Medicolegal Society of Queensland, Gold Coast (September)
Professor Nicholas Fisk	Plenary speaker: “ <i>Fetal Mesenchymal Stem Cell Therapy for Osteogenesis Imperfecta</i> ”. Perinatal Society of Australian and New Zealand Congress, Hobart (April)
Professor Nicholas Fisk	Invited Speaker: “ <i>The Un-academic Academic Health Centre</i> ”. Association of Academic Health Centers International, 2nd Asia Pacific Meeting, Sydney (February)
Professor Nicholas Fisk	Invited seminar: “ <i>Translational Challenges with Fetal MSC Therapy</i> ”. Institute of Molecular and Cellular Biology, A-Star, Singapore (January)

NAME	AWARD
Professor Wayne Hall	Invited seminar: “The ethical and social implications of using neuropharmaceuticals to enhance human cognitive functioning and replace alcohol”. University of Queensland Brain Institute (March)
Professor Wayne Hall	Invited paper: “Can we and should we develop a Viagra for the brain?”. Australian Course in Advanced Neuroscience, North Stradbroke Island (April)
Professor Wayne Hall	Invited lecture: “What is addiction Neuroethics?”. Centre for Addiction and Mental Health, University of Toronto, Toronto, Canada (May)
Professor Wayne Hall	Invited plenary lecture: “Avoiding unwelcome applications of addiction neuroscience research”. Brain Matters 2, Montreal, Quebec (May)
Professor Wayne Hall	Invited paper: “The ethics of coerced addiction treatment” International Harm Reduction Development Program, Open Society Institute, New York (May)
Professor Wayne Hall	Invited paper: “The evolution of cannabis policy in Australia”. Division of Substance Abuse, Columbia University and New York State Psychiatric Institute, New York City, USA (May)
Professor Wayne Hall	Invited paper: “How may addiction neuroscience affect the way that Australian courts deal with drug offenders?”. Neurolaw Workshop, Macquarie University (July)
Professor Wayne Hall	Invited paper: “What are the likely public health impacts of population wide genomic screening for common disease risk?”. Genetic Counsellors Annual Conference, Gold Coast (August)
Professor Wayne Hall	“Challenging assumptions about new developments in neuroscience”, with A/Professor Jayne Lucke, Dr Adrian Carter and Dr Brad Partridge. Symposium: Virtual Anatomies: The Cultural Impact of New Medical Imaging Technologies. Centre for the History of European Discourses, UQ (August)
Professor Wayne Hall	Invited panellist: “Mastering the mind. Do our brains control our behaviour?”. Gallery of Modern Art, GoMA Talks, Brisbane (September)
Professor Wayne Hall	Invited panellist: “The Addicted Brain”, and invited lecture: “Should addicted individuals be made to use drug vaccines or implants to stay drug free? “. Adelaide Festival of Ideas, Adelaide (October)
Professor Wayne Hall	Invited paper: “What does the history of Australian cannabis policy tell us about the likely shape of future policy? Cannabis Policy: Where to from here?”. University of Melbourne, (November)
Associate Professor Kiarash Khostrotehrani	Invited speaker: “Mouse models to investigate stem cells in skin homeostasis and wounds”. 38th Annual Meeting of the Society-for-Cutaneous-Ultrastructure-Research (May)
Associate Professor Jayne Lucke	Invited seminar presentation: “Neuroenhancement: Academic doping or Viagra for the brain?” Montreal Neuroethics Network, IRCM, Montreal, Canada (October)
Professor Graeme Nimmo	Invited speaker: “ST93 community MRSA: origin and epidemiology of the species”. Antimicrobials 2011, Melbourne (February)
Professor Graeme Nimmo	Keynote speaker: “Community MRSA in Australia”. 11 th International Symposium on Modern Concepts in Endocarditis and Cardiovascular Infections (2011 ISCVID Symposium), Cairns (July)
Professor Graeme Nimmo	Invited plenary speaker: “Antimicrobial resistance in the 21 st Century: a call to action”. Pharmaceutical Society of Australia Sunshine Weekend, Hamilton Island (September)
Dr Allison Pettit	Invited lecture: “Osteomac Canopy in Mice”. American Society of Bone and Mineral Research, San Diego, USA (September)
Professor David Paterson	Invited speaker: “Update on Treatment Options for Multidrug-Resistant Gram-Negative Bacteria”. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago (September)
Professor David Paterson	Invited speaker: “Therapy of Multidrug-resistant Gram-Negative Organisms”. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago (September)
Professor David Paterson	Invited speaker: “Cases in Clinical Microbiology”. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago (September)

NAME	AWARD
Professor David Paterson	Invited speaker: "Literature Review". Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago (September)
Professor David Paterson	Invited speaker: "Pseudomonas aeruginosa: Resistance to Carbapenems is on the Rise". Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Chicago (September)
Professor David Paterson	Keynote presentation: "Antibiotic Resistant Organisms – Problem Gram Negative Organisms in Asia and Australia". APSIC, Sydney (November)
Professor David Paterson	Invited speaker: "Infectious Diseases". ANZ Orthopaedic Nurses Conference, Brisbane (October)
Professor David Paterson	Invited speaker: "Airborne Organisms". Infection and Prevention Control Week, St Andrews War Memorial Hospital, Brisbane (October)
Professor David Paterson	Invited lecturer: "Fungal Infections and Their Management". Royal Australian College of Physicians (RACP), Brisbane (August)
Professor David Paterson	Invited speaker: "What is in the Wind?". Australian Institute of Medical Science (AIMS) & New Zealand Institute of Medical Laboratory Science (NZIMLS) South Pacific Congress, Gold Coast (August)
Professor Gregory Rice	Invited participant: "Translational medicine from bench to bedside and back". Tecan Symposium, Shanghai (November)
Professor Gregory Rice	Invited lecture: "Aligning basic research and clinical care". Pontifica Universidad de Chile, Santiago, Chile (September)
Professor Gregory Rice	Invited lecture: "Developing diagnostic screening application". Dept of Obstetrics and Gynaecology, University of the Andes, Los Condes, Chile (September)
Professor Gregory Rice	Invited lecture: "Proteomics and molecular pathology", Queensland Health Molecular Pathology Training Program, Brisbane, Australia (October)
Professor Gregory Rice	Invited lecture: "Proteomics and the Placenta" Placental Workshop, University of BioBio, Chillan, Chile (September)
Professor Philip Walker	Invited speaker: "Challenges for consideration for vascular surgery in Australasia". ANZSVS Oration Vascular 2011. Brisbane (November)
Professor Philip Walker	Invited speaker: "Current management and future therapies for abdominal aortic aneurysm". Caboolture Hospital Grand Rounds (October)
Professor Philip Walker	Invited speaker: "Issues and Challenges in Vascular Surgery". RBWH Surgery Planning Day (March)

APPENDIX 5

SEMINARS HELD

AT UQCCR 2011

DATE	PRESENTER	TITLE
17/2/2011	Dr Nadeeka Dissayanaka	Depression and Anxiety in Parkinson's disease
24/2/2011	Timothy Walsh	NDM-1: What price political correctness?
3/3/2011	Professor Greg Rice	Bridging the gap: UQCCR's clinical application facility
17/3/2011	Dr Matthew Simpson	Breast Cancer cell migration: Understanding the roles of cell crowding and cell-cell adhesion
24/3/2011	Dr Michael Landsberg	Getting in and out: Revealing the structure of key regulators of infection by viral and bacterial pathogens
31/3/2011	Dr Sampsa Vanhatalo	Brain development: Structure vs function
21/4/2011	Dr Brian Fritz	Illumina's next generation sequencing technologies and applications from samples to data analysis
28/4/2011	Adjunt Professor Joan Webster	Clinical nursing research influencing practice change at the RBWH
5/5/2011	Dr Allison Pettit	Building better bones through immunology
17/5/2011	Professor Frances Glascoe (Special Seminar)	Measuring child development for outcomes research and surveillance
19/5/2011	Dr Robin Mortimer	Maternal thyriod hormone, iodide and the fetus
26/5/2011	Dr James Armitage	Developmental origins of obesity related hypertension; you are what your mother ate
2/6/2011	Dr Mathieu Rodero	Characterisation and modulation of wound associated macrophages
9/6/2011	Dr Karen Moritz	Drinking in the womb: Long term consequences
16/6/2011	Professor Gernot Desoye	Insulin and the placenta - Developmental changes or anything else
30/6/2011	Dr Martin Batstone	What do facial trauma and head and neck cancer have in common?
7/7/2011	Professor Frank Gannon	How the estrogen receptor switches on genes
14/7/2011	Dr Marcus Meinzer	New treatment options for chronic post-stroke aphasia based on basic neuroscience: Transcranial direct current stimulation
21/7/2011	A/Professor Jayne Lucke & Dr Brad Partridge	Everything you wanted to know about smart drugs (But were too afraid to ask)
28/7/2011	Dr Charles Claudianos	The role of synapse developmental in cognitive disorder

DATE	PRESENTER	TITLE
4/8/2011	A/Prof Leonie Callaway	Pregnancy: A metabolic miracle
11/8/2011	Dr Jesus Rodriguez-Bano	Tackling a betalactamase trial
16/8/2011	Dr Bradley Kerr (Special Seminar)	Studying neuropathic pain in multiple sclerosis: New uses for an old animal model
18/8/2011	Dr Rod Hunt	Neonatal seizures - to treat or not to treat?
25/8/2011	Professor Sergio Starkstein	Impact of neuropsychiatric disorders on the progression of Parkinson's Disease
8/9/2011	Professor Simon Cool	Customized heparin sulfate variants for use in regenerative medicine
15/9/2011	Associate Professor Stephen Rose	How neuroimaging crosses the themes
30/9/2011	Professor Ajit Varki (Special Seminar)	Major Disease Differences Between Humans and Great Apes
3/11/2011	Dr Steven Boyce	Translational Research with Engineered Human Skin
13/10/2011	Dr Simon Lewis	The Masked Face of Parkinson's Disease
20/10/2011	Mr Graham Radford-Smith	Crohn's Disease and Ulcerative Colitis - Factors Determining Disease Risk
27/10/2011	Dr Simon Finnigan	Investigating Brain Damage and Dysfunction
10/11/2011	Dr Chanel Smart	Understanding the Significance of Mammospheres - A Cautionary Tale
10/11/2011	Dr Jodi Saunus	Defining Mechanisms Underlying Breast Cancer Metastasis to Brain
17/11/2011	Assoc Professor Roslyn Boyd	Can Training Change the Brain?
24/11/2011	Dr Elizabeth Williams	Imaging Prostate Cancer : Tools and Targets
1/12/2011	Professor Leslie Myatt	Sexual Dimorphism in the Response of the Placenta to an Advers Intrauterine Environment
2/12/2011	Professor Kishore Bhakoo	Application of Bioimaging to Tissue Engineering and Regenerative Medicine
8/12/2011	Assoc Prof Charlotte Ling	Epigenetics and Metabolic Disease

APPENDIX 6

RESEARCH HIGHER DEGREE STUDENTS 2011

UQCCR researchers are indicated in bold.

COMPLETIONS IN 2011

STUDENT	DEGREE	PROJECT	SUPERVISORS
Abdul Murad, Nor	PhD	Nature of the genetic defect in Ataxia Oculomotor Apraxia Type 3 (AOA3)	Professor M Lavin , Dr O Becherel
Lo, Ho Yan	PhD	Lifestyle and health variables in predicting white matter lesions and cognitive trajectory in ageing	A/Professor N Pachana, Professor G Byrne , Professor G Galloway
MacDonald, David	PhD	The morphology and behaviour of the lumbar paraspinal muscles in chronic low back pain	Professor P Hodges , Dr L Moseley
Gianduzzo, Troy	MPhil	Laser Robotic-Assisted Laparoscopic Radical Prostatectomy	Professor R Gardiner , Dr J Yaxley
Jones, Amanda	PhD	Autoimmunity in schizophrenia	Dr J Greer , Professor M Pender, A/Professor B Mowry
Siyambalapitiya, Samantha	PhD	Language recovery and lexical semantic processing in bilingual aphasia	A/Professor D Copland, Professor H Chenery
Hoenig, Michel	PhD	The use of cholestAnol to cholesterol ration to guide therapy: LDL lowering. The target LDL study.	A/Professor P Walker , Dr J Bingley
Rayfield, Andrew	PhD	The characterisation of NHERF-1 and NHERF-2 scaffold proteins in the mammalian brain	Professor P Poronnik, Dr A Lee
Muller, Diane	PhD	Neuropathological and Neurophysiological Studies of the Central Nervous System of mice with Atypical Experimental Autoimmune Encephalomyelitis	Dr J Greer

ENROLMENTS IN 2011

STUDENT	DEGREE	PROJECT TITLE	SUPERVISORS	STUDENT COMMENCE DATE
Dong, Shiyong	PhD	Investigating the autonomic neural regulation of cardiac response and prognostic value of physiological signals of newborns exposed to hypoxia using signal processing techniques.	Professor P Colditz, Professor B Boashash, Dr B Lingwood, Dr G Azemi	03/01/2011
Legrand, Julien	PhD	Mesenchymal-Epidermal interactions in skin wound regeneration	A/Professor K Khosrohtehrani, Professor N Fisk	04/03/2011
Pannek, Kerstin	PhD	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain	Professor S Rose, Professor P Colditz	25/02/2011
Rawlings, Alicia	PhD	The modulation of adult new word learning by dopamine	A/Professor D Copland , Dr K McMahon	07/03/2011
Roberts, Matthew	MPhil/MBBS	Putative biomarkers for early detection of Prostate Cancer	Professor R Gardiner , Dr Horst Schirra	04/03/2011
Zowawi, Hosam	PhD	The prevalence of metallo-beta-lactamse producing enterobacteriaceae, P.areuginosa, Acinetobacter spp in tertiary and academic healthcare centres in Saudi Arabia	Professor D Paterson, Dr H Sidjabat	25/02/2011
Sohn, Soo Han	MPhil/MBBS	Energy drink consumption patterns among medical students	Professor W Hall, A/Professor J Lucke	08/08/2011
Barrett, Helen	PhD	Lipids in pregnancy	Professor L Callaway	08/02/2011
Odebaee, Maryam	PhD	Non-stationary signal processing methods for newborn seizure prediction	Dr M Mesbah, Professor P Colditz	01/03/2011
Scheck, Simon	MPhil/MBBS	Motor, Sensory and visual brain networks in children with unilateral Cerebral Palsy	Professor S Rose , A/Professor R Boyd (RCH)	04/03/2011
Harris, Lisa Jane	PhD	Pre-eclampsia: The early detection of at-risk pregnancies, management and long term implications	Professor M Mitchell	17/08/2011
MA, Norman	MPhil	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions	Dr T Bjorkman, Professor P Colditz	12/04/2011
Dost, Fatima	MPhil	Epithelial dysplasia and future oral malignancy - a Queensland based retrospective study	A/Professor C Farah, Dr F Pauline	19/05/2011
Sheikh, Nabeel	PhD	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke	Dr S Finnigan , Dr A Wong, Dr SJ Read	08/06/2011

STUDENT	DEGREE	PROJECT TITLE	SUPERVISORS	STUDENT COMMENCE DATE
Sam, Sonia	PhD	Cardiovascular factors associated with poor outcome in preterm infants	Dr B Lingwood, Professor PColditz	03/03/2011
Economou, Caleb	Mphil	The pharmacokinetics of various antibiotics in critically ill patients undergoing renal replacement therapy	Professor J Roberts, Professor J Lipman , Dr J Varghese	12/12/2011
Tseng, Hsu-Wen	PhD	Novel treatment approaches to prevent joint fusion in ankylosing spondylitis	Professor G Thomas, Dr A Pettit , Dr M Brown	18/07/2011
Herd, Michael	PhD	Efficacy of Prem Triple P as an intervention to support families of very preterm infants	Dr K Whittingham, Dr R Boyd, Professor PColditz	28/02/2011
McRae, Prudence	Mphil	Identifying interdisciplinary care needs in older surgical patients	Professor A Mudge, Professor P Walker , Professor M Peel	23/06/2011
Yeates, Sarah	PhD	Addiction neuroscience meets alcohol policy: emergent meaning in discoursed about alcohol, the brain and behaviour and their implications for ethical communication and evidence based policy for harm reduction	Professor J Leach, Professor W Hall, A/Professor J Lucke	22/09/2011

ONGOING STUDENTS

STUDENT	DEGREE	PROJECT TITLE	SUPERVISOR
Abdul Majeed, Ahmad	PhD	Alterations in Gene Expression during the Early Stages of Oral Carcinogenesis	A/Professor C Farah, Dr A Dalley
Adnan, Syamhanin	PhD	Improving Antibiotic Use in Critically Ill and Immunocompromised patients	Professor D Paterson , Dr J Roberts
Awabdy, Doreen	PhD	Neuroprotection and Neuroreceptor Ontogeny in the Developing Brain	Professor P Colditz, Dr P Dodd, Dr Kathryn Buller
Baumann, Fusun	PhD	Detection of objective markers of disease progression in pateints with Motor Neuron Disease (MND)	Professor P McCombe , Dr R Henderson
Beasley, Shannon	PhD	Role and mechanism of action of myelin-specific antibodies from multiple sclerosis patients	Dr J Greer, Professor D Pow , Professor M Pender
Birt, John	PhD	Learning and memory in the cerebellum	Dr M Bellingham, Dr J Power, Professor M Lavin
Blum, Stefan	PhD	Pathogenesis of Guillain-Barre syndrome and chronic inflammatory polyradiculoneuropathy	A/Professor P McCombe, Dr J Greer
Carty, Michelle	PhD	Neuroanatomical changes under-pinning functional deficits after hypxic-ischaemic injury in the pre-term brain	Dr K Buller, Dr T Bjorkman

STUDENT	DEGREE	PROJECT TITLE	SUPERVISOR
Coelho Da Silva Goncalves, Daniela	PhD	Prospective study of the emergency of syndromal and subsyndromal anxiety and depression during cognitive decline	Professor G Byrne , A/Professor N Pachana
Costantini, Kerina	PhD	The Role of C5a in Pathophysiology	Professor S Taylor, Professor P Colditz , Professor L Callaway
Crombie, Anthony	MPhil	Primary chemoradiotherapy for oral & oropharyngeal squamous cell carcinoma.	A/Professor C Farah , Dr M Batstone
Cumin, Michelle	PhD	Nutritional outcomes in preterm infants	Dr B Lingwood , Dr T Donovan, Professor P Colditz
Fattahi, Fariba	PhD	Structure and function of the trunk muscles in low back pain	Professor P Hodges
Flanagan, Kieran	PhD	The role of perceptual symbols in the representation of semantic concepts in dementia	Dr A Angwin, A/Professor D Copland
Francis, Glenn	PhD	Protein expression and molecular profiling using tissue microarrays to predict lymph node status in breast cancer	A/Professor C Farah , Dr G Beadle
Gildea, Jan	PhD	The activation pattern of trunk and pelvic muscles during loading through the foot in dancers and non-dancers with and without low back pain	Professor P Hodges , Dr J Hides
Gray, Patricia (Elizabeth)	PhD	Cardiovascular function in the pre-term neonate	Dr B Lingwood
Hall, Leanne	PhD	The contribution of dopamine to the regulation of orofacial, limb and trunk control - system or functional specific effects?	Professor P Hodges , A/Professor S Brauer
Harper-Hill, Keely	PhD	Does language processing in individuals with ASD vary as a function of modality under conditions of increased stress?	A/Professor D Copland , Dr W Arnott
Heath, Shiree	PhD	Neurocognitive substrates of naming facilitation in aphasia	A/Professor D Copland , Dr A Angwin, Dr K McMahon
Heazlewood, Celena	PhD	Neuronal differentiation potential of mesenchymal stem cells and their use in animal models of neurological disease	Professor M Atkinson, Dr G Brooke, Professor N Fisk
Hemsley, Gayle	PhD	Language learning outcomes in early sequential bilinguals	Professor B Dodd , Dr A Holm
Higgs, Crystal	PhD	The role of vesicular glutamate and GABA transporters in Alzheimer's disease	Professor B Dodd , Dr R Tannenberg
Ireland, Penelope	PhD	A population-based analysis of development in young Australian children with Achondroplasia	Dr L Johnson, Dr A Zankl
Jardine, Luke	PhD	Development of early predictors of long-term outcome in premature infants	Professor P Colditz , Dr M Davies

STUDENT	DEGREE	PROJECT TITLE	SUPERVISOR
Jessri, Maryam	PhD	Cancerous & precancerous lesions of oral cavity and comparisons of their genetic profile in young and old patients: MMR genes	A/Professor C Farah , Dr A Dalley
Kamolvit, Witchuda	PhD	Carbapenem resistance in commonly encountered Gram negative bacilli	Professor D Paterson , Dr H Sidjabat
Karayannis, Nicholas	PhD	In influence of motor control, pain and psychological factors on low back pain classification	Professor P Hodges , Professor G Jull
Khlif, Mohamed	PhD	Multi-channel time-frequency analysis for EEG neonatal seizure characterization	Professor P Colditz , Dr A Ghasem , Professor B Boashash
Kim, Min Young	PhD	Myocardial development in the preterm piglet	Dr B Lingwood , Dr A Boyce, Dr K Gibson
Kong, Fiona Yin Mei	PhD	Novel approaches to the surveillance of healthcare acquired infections	Dr A Clements, Professor D Paterson , Professor M Whitby
Lai, Foon	PhD	Occurence and fate of illicit drugs in Australian sewage treatment work	Professor J Mueller, Dr C Gartner , Dr C Ort
Lee, Linda-Joy	PhD	Motor control of the thorax and integration to the lumbopelvic region	Professor P Hodges , Dr M Coppieters, A/Professor K Khan
Leveque, Lucie	PhD	Auto-immunity and allogenic chimerism acquired during pregnancy	A/Professor K Khosrotehrani
Lim, Yi Chieh (Ernie)	PhD	Targetting gliomas'ES cells as a potential therapy for this tumor	Professor M Lavin , Dr R Woods
McCarthy, Kate	PhD	Pseudomonas aeruginosa bloodstream infections: Clinical and molecular epidemiology, antibiotic resistance mechanisms, treatment and outcome	Professor D Paterson
McCook, Donna	PhD	An investigation into the effect of spinal manual therapy on the motor system and implications for neurophysiological mechanisms	Professor P Hodges , Professor G Vicenzino, Dr T Souvlis
Miller, Stephanie	PhD	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury	Dr T Bjorkman , Professor D Pow
Mok, Kwai	PhD	Evaluation of a problem-based learning curriculum in speech and hearing sciences: Student perceptions and critical thinking	Professor B Dodd , Professor T Whitehall
Moxey, Nancy	PhD	The role of PLP in multiple sclerosis	Dr J Greer , Professor M Pender
Murphy, Jenifer	PhD	Treatment-resistant depression	Professor G Byrne , A/Professor N Pachana
Nayler, Samuel	PhD	Ataxia telangiectasia and induced pluripotent stem cells	Professor M Lavin , A/Professor E Wolvetang
Nguyen, Phan	PhD	Optical biopsy in lung medicine broncoscopy	Dr D Fielding, A/Professor C Farah , Dr I Masters
Omidvarnia, Amir	PhD	EEG background abnormalities: Analysis and classifications	Professor P Colditz , Dr M Mesbah , Professor B Boashash
Patel, Bhavik	MPhil	Infections in hospitalized burns patients	Professor D Paterson , Professor J Lipman, Dr J Paratz

STUDENT	DEGREE	PROJECT TITLE	SUPERVISOR
Patel, Jatin	PhD	Thyroid hormone transport in placenta	Dr Kerry Richard, Professor N Fisk , Dr N Subramaniam
Peiris, Hassendrini	PhD	The role of myostatin in the placenta	Professor M Mitchell
Ramesh, Krishnan Narayanan	PhD	Genomic associated studies in MND	Dr Robyn Wallace, Professor P McCombe
Reinebrant, Hanna	PhD	The central serotonergic system in the preterm neonate following hypoxic-ischemic brain injury	Dr K Buller, Professor P Colditz
Robertus, Linda	PhD	The epidemiology of tuberculosis in Queensland as it relates to strategies to prevent transmission, particularly in indigenous Australians	Professor D Paterson
Rogers, Ben	PhD	Clinical, epidemiological and molecular characteristics of E.coli (Escherichia coli) infection and its antimicrobial resistance	Professor D Paterson, Dr H Sidjabat
Roxbury, Tracy	PhD	Neurophysiological markers of language recovery in acute stroke.	A/Professor D Copland , Dr K McMahon
Ryan, Jennifer	PhD	Communication and dual diagnosis (Mental health and intellectual impairment)	Dr G Woodyatt, A/Professor D Copland
Sa Ariwijaya, Mohd Shazrul	PhD	Substance abuse: A correlation between DNA damage to ageing	Professor M Lavin , Dr M Gatei
Sauer, Evan	PhD	Study of Potential Therapeutic Agents in Multiple Sclerosis	Dr J Greer
Schmid, Annina	PhD	Proximal and central pain mechanisms involved in carpal tunnel syndrome	Dr M Coppieters, A/Professor E McLachlan, Professor P Hodges
Seppanen, Elke	PhD	Fetal microchimerism in maternal tissue repair	Professor N Fisk, A/Professor K Khosrotehrani
Sindi, Ikhlas	PhD	Disruption of nerve-cell connections in Alzheimer's disease through the assay of the trans-synaptic proteins: neurexins and neuroligins	Professor G Byrne , Dr R Tannenberg, Dr P Dodd
Spearing, Natalie	PhD	A comparison of personal injury motor vehicle insurance schemes in Australia and their impact on health outcomes	A/Professor L Connelly, Professor P Hodges
Stafford, Ryan	PhD	Is motor recovery related in clinical change	Professor P Hodges , Professor J Ashton Miller
Stewart, Romal	PhD	A cellular model to investigate the role of ATM in the nervous system	Professor M Lavin , Dr Sergei Kozlov
Stubbs, Narelle	PhD	Epaxial musculature and its relationship with back pain in the horse	Dr C McGowan, Professor P Hodges
Tan, Kee Meng	PhD	Neuronal voltage-gated potassium channel and voltage-gated sodium chanel autoimmunity	Dr J Greer
Tattersall, Timothy	PhD	Neural mechanisms that underlie emotional memory formation and extinction	Professor P Sah, Professor G Byrne , Dr F Windels

STUDENT	DEGREE	PROJECT TITLE	SUPERVISOR
Udy, Andrew	PhD	The Impact of Augmented Renal Clearance (ARC) on the prescription of antibiotics in the critically ill	Professor J Lipman , Dr R Boots
Van den Hoorn, Wolbert	PhD	Mechanisms underlying the coordinated an dysfunction of muscles used for breathing and postural tasks	Professor P Hodges , Professor J van Dieen
Van Hal, Sebastian	PhD	Associations between Staphylococcus aureas and the clinical outcomes in bacteremic patients	Professor D Paterson
Van Hees, Sophia	PhD	Brain mechanisms of language treatment post-stroke	A/Professor D Copland , Dr A Angwin, Dr K McMahon
Vargas Calderon, Ana	PhD	Mechanisms of metastases in lobular carcinomas of breast	Professor S Lakhani, Dr P Simpson
Varghese, Julie	PhD	Altered pharmacokinetics in CVVHDF- using plasma and tissue antibiotic concentrations to optimize dosing of beta-lactam antibiotics	Professor J Lipman , Dr J Roberts, Professor J Kirkpatrick
Vaska, Vikram	PhD	Clinical, health economic, epidemiologic and molecular epidemiologic and diagnostic aspects of staphylococcus aureus infections in Queensland.	Professor D Paterson, Dr G Nimmo
Williams, Rebecca	PhD	The role of the medial temporal lobes in memory and the validation of diffusion functional magnetic resonance imaging in functional brain imaging	Dr J Hocking , Professor D Reutens
Williams, Julian	PhD	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection	Professor J Lipman, Professor D Paterson
Winter, Craig	PhD	Investigation of blood-brain barrier function in acquired brain injury using MRI, SPECT and CNS-specific proteins	Professor S Rose , Professor A Coulthard
Wixey, Julie	PhD	The effects of hypoxia-ischemia on the serotonergic system in the neonatal brain	Dr K Buller, DrT Bjorkman
Xu, Fangfei	PhD	Computer-aided classification of newborn EEG to optimise therapeutic hypothermia delivery	Dr M Mesbah, Professor P Colditz
Yamada, Miko	PhD	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxia/ischaemia-injured neonatal brain	A/Professor G Gobe, Professor D Johnson, Professor P Colditz
Malik, Neelam	PhD	Examining transcription factors in melanoma	Dr A Smith, A/Professor K Khosrotehrani
Momeny, Majid	PhD	Identification of the roles of HER-family receptors in breast cancer metastasis to brain	Professor S Lakhani, Professor G Rice, Dr J Saunus
Gray, Paul	PhD	Neuropathic pain following burn injury: An examination of mechanism and treatment in the pre-clinical model and in the clinical setting	Professor T Cramond, Dr P Cabot, Professor J Lipman
Campbell, Peter	MPhil	Clinical disagreement: its influence on the practice of urology	Dr P McTaggart, Professor R Gardiner

APPENDIX 7

CLINICAL TRIALS 2011

UQCCR is actively involved in Investigator driven Clinical research.
In 2011 we hosted:

CLINICAL TRIAL	CHIEF INVESTIGATOR/S
“Randomised Study of Robotic and Open Prostatectomy”: The purpose of this study is to evaluate these procedures in terms of clinical and oncological parameters, psychosocial aspects and costs to both individuals and the health system.	Professor Robert ‘Frank’ Gardiner (Principle Investigator).
“A Double Blind, Placebo–controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Receiving Demosumab for bone loss due to Androgen-Deprivation Therapy”.	Dr Geoff Coughlin (Sub-investigator), Dr John Yaxley (Sub-investigator).
Prevail: “A Multinational Phase 3, Randomised, Double –Blind, Placebo- controlled efficacy and safety study of oral MDV3100 in Chemotherapy”- Naive Patients with Progressive Metastatic Prostate Cancer who have failed Androgen Deprivation therapy.	Dr Alison Hadley Med Oncologist (Sub-investigator).
Early Detection Study: Developing a non-invasive test for Prostate Cancer detection. Researchers have employed PCR, ELISA, MALDI-TOF and metabonomic spectroscopy to discriminate cancer from non-cancer.	
CONCERT: “A Phase 3 Multicenter, Randomized, Placebo-Controlled, Double-Blind Twelve-Month Safety and Efficacy Study Evaluating Dimebon in Patients with Mild-to-Moderate Alzheimer’s Disease on Donepezil”.	Professor Gerard Byrne, Vicki Naumann, Liz Arnold and Lyn Isbel.
CONCERT PLUS: “An Open-Label Extension of the CONCERT Protocol (DIM18) Evaluating Dimebon (Latrepirdine) in Patients with Alzheimer’s Disease”.	
“A Multinational, Multicenter, Randomized, Double-Blind, parallel-group, Placebo-controlled study of the effect on Cognitive performance, Safety, and Tolerability of SAR110894D at the doses of 0.5 mg, 2 mg, and 5 mg/day for 24 weeks in patients with mild to moderate Alzheimer’s Disease on stable Donepezil therapy”.	
The language Neuroscience Laboratory conducts studies that investigate language processing in healthy populations and treatment and recovery from language disorders. The targeted patient groups are stroke, Parkinson’s disease, dementia, autism and brain injury patients. Techniques used include behavioural and psycholinguistic tasks, functional MRI and EEG. The team are looking at development and evaluation of, new models of diagnosis and treatment for these patient groups.	A/Professor David Copland, Alicia Eawlings, Jeffrey Mahoney, Dr Anna MacDonald, Dr Katie McMahon, Professor Peter Silburn.
Project title:“Dopaminergic modulation of adult new word learning: A functional imaging investigation”.This study aims to investigate the role of the neurotransmitter dopamine in new word learning and language processing in adults. Levodopa, a dopamine precursor, is administered to healthy individuals prior to language learning sessions, in a double-blind, placebo-controlled study design. Neural correlates of new word learning modulated by dopamine are investigated using behavioural methods, functional MRI and event-related EEG.	

CLINICAL TRIAL	CHIEF INVESTIGATOR/S
Improving diagnostic methods of anxiety and depression in Parkinson’s disease. Defining the phenotype of anxiety and depression in Parkinson’s disease (PD). Investigating early markers for anxiety in PD using psycholinguistic (affective priming) paradigms and imaging (electroencephalography, EEG).	Dr Nadeeka Dissanayaka, Professor Peter Silburn, Associate Professor John O’Sullivan, Professor Gerard Byrne, Dr Rodney Marsh, A/Professor David Copland, A/Professor George Mellick.
Learning and language processing in people with Parkinson’s disease. Investigating neural basis for language deficits in Parkinson’s disease using brain imaging (fMRI).	A/Professor David Copland, Dr Nadeeka Dissanayaka, Peter Bell (honours student), Professor Peter Silburn, Dr Katie McMahon, Professor Helen Chenery, Dr Anthony Angwin.
Striatal dopamine function in human cognition: Insights from language, learning and reward in Parkinson’s disease and pharmacological challenge. A study investigating the learning and language processing in PD patients who have had deep brain stimulation (DBS) functional neurosurgical treatment.	Dr Anthony Angwin, Professor Peter Silburn, A/Professor David Copland, Dr Nadeeka Dissanayaka.
Latrogenic additive behaviours in Parkinson’s disease patients receiving dopamine replacement therapy: Literature review on dopamine dysregulation syndrome and impulse control disorders in Parkinson’s disease. Initiated a debate and raised more awareness in this field by publishing 2 reviews in addition journal.	Dr Adrian Carter, Dr Nadeeka Dissanayaka, Polly Ambermoon, Professor Wayne Hall, A/Professor John O’Sullivan.
Early intervention centred on infant massage performed by the mother in preterm infants: effects on neurodevelopment at the clinical, electrophysiological and neuroradiological level.	Professor Paul Colditz, Dr Simon Finnigan, Associate Professor Stephen Rose, Dr Andrea Guzzetta, Dr M Giulia D’Acunto, Naoni Ngenda, Sonia Sam, Dr Koa Whittingham, Janine Oostenbroek and Penny Love.
Oral Cancer research: Looking at ways to diagnose and treat oral cancer at its earliest stages.	Associate Professor Camille Farah.
Clinical trials looking at the neurophysiological and biomechanical methods in the control of movement and stability of the spine and how this changes when people have pain.	Professor Paul Hodges.
This HELP Study is a Randomised Controlled Trial (RCT) designed to compare the clinical benefits of different feeding intervention programs for children with feeding difficulties and a restricted range of oral intake. The study is targeting the outcomes for children aged between 1 and 6 years of age from varying clinical backgrounds.	Chief Investigator: Dr Pamela Dodrill Research Fellow Queensland Children’s Medical Research Institute, Royal Children’s Hospital. Co-Investigators: Ms Meghann O’Connor, Research Clinician (QCMRI). Ms Jeanne Marshall, Research Clinician (QCMRI). Ms Jane Morgan, Research Clinician (QCMRI). Professor Geoff Cleghorn, (Deputy Head of School of Medicine, UQ).

APPENDIX 8

STAFF LISTING 2011

CENTRE DIRECTOR

Professor Murray Mitchell

THEME LEADERS

Professor Paul Colditz
Professor Robert ‘Frank’ Gardiner
Professor Sunil Lakhani
Professor Pamela McCombe
Professor David Paterson
Professor David Pow
Professor Gregory Rice

VISITING ACADEMICS

Professor George Bou-Gharios
Professor Barbara Dodd
Professor Jeffrey Lipman
Professor Eugenie Lumbers
Professor Jesus Rodriguez-Baño
Dr Colin Ades
Dr David Alcorn
Dr Zohreh Aminzadeh Barforou
Dr Ekta Bhutada
Dr Genevieve Birney
Dr Jerry Chan
Dr Mahesh Choolani
Dr Emma Duncan
Dr Christine East
Dr Xiyong Fan
Dr Yoshiro Hayashi
Dr Kenichiro Morisawa
Dr Kate Sinclair
Dr Sampsa Vanhatalo
Ms Maryrose Malt

RESEARCHERS

Professor Boualelem Boashash
Professor Gerard Byrne
Professor Sandra Capra
Professor Suzanne Chambers
Professor Helen Chenery
Professor Nicholas Fisk
Professor Frank Bernard Gannon
Professor Wayne Hall
Professor Andrea Kazoullis
Professor Martin Lavin
Professor Stephen Rose
Professor Peter Silburn
Professor Andreas Zankl
Associate Professor Keith Ashman
Associate Professor David Copland
Associate Professor Camille Farah
Associate Professor Kiarash Khosrotehrani
Associate Professor Jayne Lucke
Dr Minyon Avent
Dr Ghasem Azemi
Dr Mark Bahnisch
Dr Rosemary Baker
Dr Nigel Barnett
Dr Kathryn Bjorkman
Dr Tracey Björkman
Dr Kathryn Buller
Dr Adrian Carter
Dr Hsin-Wen Chan
Dr Vincent Chen
Dr Yen-Shun Chen
Dr Andrew Dalley
Dr David Danon
Dr Nadeeka Dissanayaka
Dr Yvonne Eiby
Dr Simon Finnigan
Dr Pauline Ford
Dr Yaniv Gal
Dr Coral Gartner
Dr Judith Greer
Dr Janet Hammill
Dr Janelle Hancock
Dr Julia Hocking

RESEARCHERS (CONTINUED)

Dr Alison Holm
Dr Charlotte Huber
Dr Aven Lee
Dr Barbara Lingwood
Dr Anna MacDonald
Dr Terence Maybury
Dr Mostefa Mesbah
Dr Susan Millard
Dr Leith Moxon-Lester
Dr Rachael Nowak
Dr Bradley Partridge
Dr Rebecca Pelekanos
Dr Allison Pettit
Dr Margo Pritchard
Dr Liza-Jane Raggatt
Dr Amy Reed
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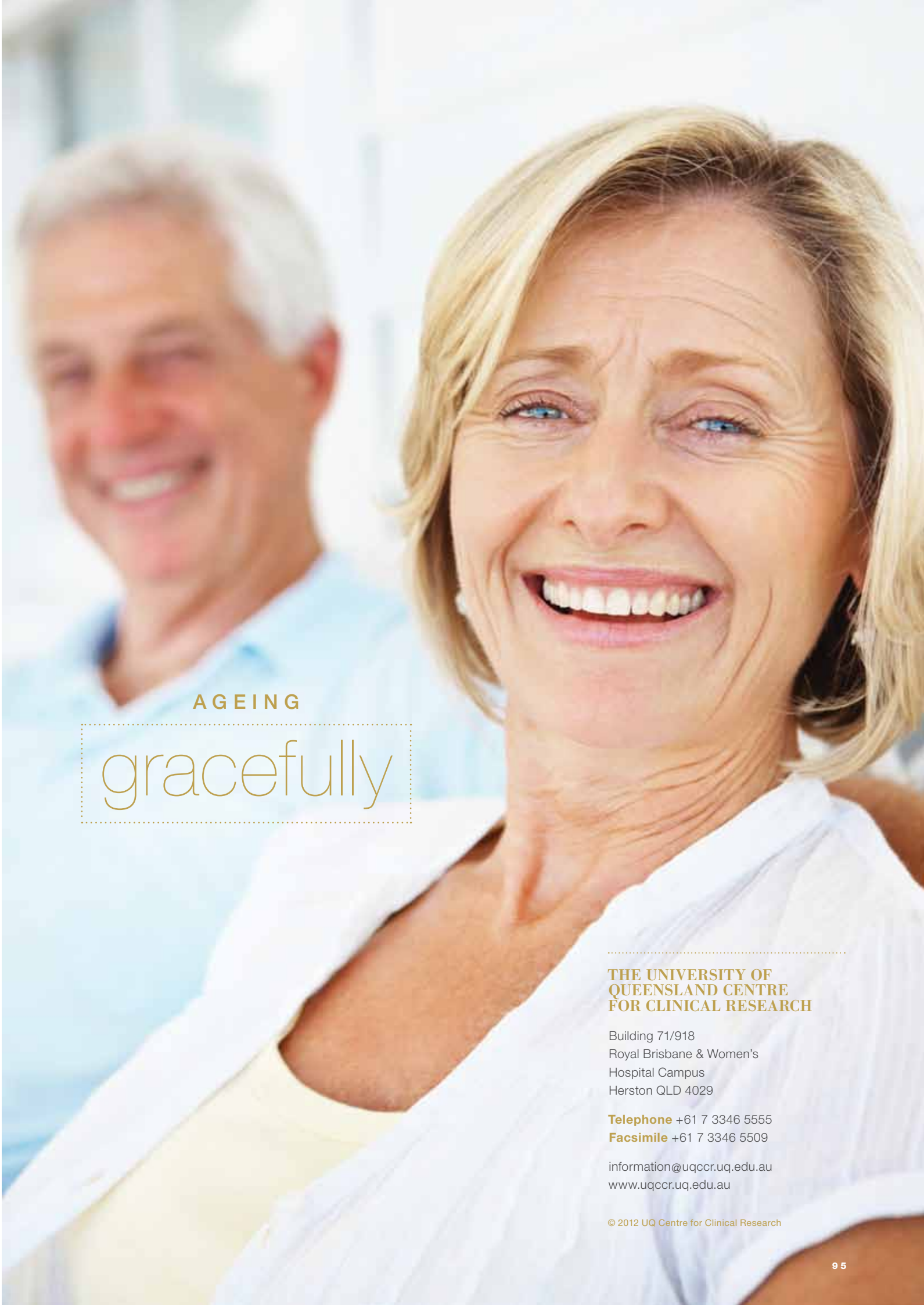






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