Slower than we want, faster than we realise, a life to cherish.
MESSAGE FROM THE DIRECTOR

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MESSAGE FROM THE DIRECTOR
Transforming lives throughout the human lifecycle

It is with great pride that I can report again this year on the continued growth of UQCCR and the many milestones and accomplishments seen across the Centre and our major areas of research.

This year you will find our Annual Report to be a journey through the human lifecycle with information on how our researchers are transforming lives at every stage of life, from healthiest beginnings for babies and children, to keeping yourself well through your teens and adulthood. We aim to help you live happier and healthier lives for longer.

You will also find this report to be an innovative and interactive space this year. Pull out your smart phone and see the leaps and bounds we’ve made in just one year by scanning the QR codes for more information on your favourite stories.

Our researchers took pleasure in more funding success throughout 2012 with overall grant monies awarded to UQCCR totalling over $19 million – the highest the Centre has received since beginning operations four years ago. In a welcome reward for our efforts in further developing partnerships with clinical colleagues and hospitals across the community, we were pleased to announce this year the establishment of the ACRF Molecular Oncology Translational Imaging Facility that is to be located within HIRF. The procurement of two state-of-the-art scanners with Hybrid Molecular Imaging Technology will provide researchers and students with unique, world-class technologies that give them a competitive advantage in their studies, grant applications and ability to diagnose and treat patients (see Future Research, page 48).

Our Clinical Floor on Level 3 continues to enjoy significant growth thanks to our efforts in further developing partnerships with clinical colleagues and hospitals across Brisbane. In 2012 the total number of patients participating in investigator-driven clinical trials at UQCCR increased by almost 90% to 1,552 patients when compared to the year prior (2012 Clinical Trials, page 87).

For the year ahead, we are evaluating our Themes and in particular one new Theme – Public Health Policy. This innovative and exciting Theme would contribute to the UQCCR vision to shape health and funding policy by examining public policy issues in two important health areas: i) women’s health and ii) addiction and mental health. The work of the Theme would aim to inform government, the public and other bodies in establishing ethically appropriate and socially effective policies that maximise benefits to health.

The new Theme’s two main areas of strategic focus would be led by Associate Professor Jayne Lucke for Women’s Health and Australian Fellow Professor Wayne Hall for Addiction.

In closing, I would like to take this opportunity to thank all staff and students for their tremendous efforts throughout 2012. We are proud to have a dedicated team of academic, professional and research staff who share our vision and work tirelessly to save, transform and improve the lives of people across the community.

Many of the stories you’re about to read reflect our principal vision of providing health benefits to the community through excellence in research, clinical partnerships, mentorship and service. We hope you will be inspired by the lives we’ve changed through our patient-oriented research.

The new multimillion dollar Asia-Pacific Centre for Neuromodulation (APCN) was launched in 2012, in strengthening our relationship with St Andrews Hospital and the UQ Faculty of Health Science. APCN, with UQCCR Professor Helen Chenery appointed as Director. Helen is a leading researcher in the area of the neuroscience of language in Parkinson’s disease and the impact of Deep Brain Stimulation on cognition. (APCN featured, page 40).

We continue to make progress in building the Herston Imaging Research Facility (HIRF) – a joint initiative of UQ, Queensland Health, Queensland University of Technology and the Queensland Institute of Medical Research with construction beginning mid-2013. The facility will be an annex to UQCCR, utilising our clinical facilities, and providing cutting edge imaging methods to improve the diagnosis and treatment of cancer, mental disorders and neurological diseases associated with ageing.

Furthermore, we were pleased to announce this year the establishment of the ACRF Molecular Oncology Translational Imaging Facility that is to be located within HIRF. The procurement of two state-of-the-art scanners with Hybrid Molecular Imaging Technology will provide researchers and students with unique, world-class technologies that give them a competitive advantage in their studies, grant applications and ability to diagnose and treat patients (see Future Research, page 48).

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The flow of high quality publications from the Centre’s researchers also increased substantially with total publications across books, book chapters, journal articles and conference abstracts jumping to 477 in 2012 (a staggering 70 publications more than the year prior). Further to this, many of our researchers had their work published in renowned publications including Nature, Nature Genetics, the Lancet and PLoS.

Our commitment to providing the highest quality experience and education for our students is best represented by the 21 students who completed their journey with us by graduating in 2012 and the increase in research higher degree (RHD) students enrolling under the supervision of Centre staff every year. We now have 148 total students associated with UQCCR researchers of which 127 are RHD students, 38 of which were new enrolments in 2012. (For student success see Highlights from 2012, page 6).

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HIGHLIGHTS FROM 2012

CELEBRATING ANOTHER YEAR OF ACCOMPLISHMENTS
OVATION 2012

The annual UQCCR fundraising gala ball, Ovation, was held on Friday, 1 June, 2012 at the Brisbane Convention & Exhibition Centre, South Bank. Guests dazzled as they arrived in their best cocktail attire to support the research and development programs run by UQCCR’s extraordinary group of gifted and dedicated researchers. Hosted by Davinia Smith (Nine Network Australia), a gifted and dedicated researcher. Hosted by UQCCR’s extraordinary group of researchers and organised by the research and development programs run by UQCCR’s extraordinary group of researchers.

HOT PUBLICATIONS


Dr Emma Duncan’s ‘New genomic loci for bone mineral density, osteoporosis and risk of fractures’ appeared in Nature Genetics, while Professor Sunil Lakhani and PhD student Anna Christina Vargas’ study ‘The landscape of cancer genes and mutational processes in breast cancer’ appeared in Nature (see Appendix 2: UQCCR Publications 2012, page 57).

STUDENT SUCCESS

In 2012, more than 70% of UQCCR honours students graduated with Class 2 A grades. A number of UQCCR students were awarded Best Poster Awards at the RBWH Healthcare Symposium, including Nabeel Sheikh (PhD student) and Adele Chan (Honours student). PhD student Benjamin Rogers received the 2012 American Society for Microbiology Student Travel Grant and Emma Schlieger received the RBWH Postgraduate Scholarship for her PhD.

LAUNCH OF APCN

Sufferers of Parkinson’s disease and other serious brain disorders were given new hope in 2012 with the opening of a multi-million dollar Asia-Pacific Centre for Neuromodulation (APCN) – a joint initiative of UQ and St Andrew’s War Memorial Hospital – with funding commitments of approximately $10m over five years.

The Centre builds on two decades of groundbreaking clinical research in the application of Deep Brain Stimulation (DBS) and is poised to become a world leader in research to revolutionise the diagnosis and treatment of neurological disease (read more, page 43).

TIA – QLD NODE LAUNCH

Australian Life Sciences researchers will translate their discoveries into commercial products faster thanks to a newly established Queensland Node of the Therapeutic Innovation Australia (TIA – QLD Node).

UQCCR is one of five leading Translational Research Centres in Queensland with a focus on cancer and neurodegeneration. The TIA Node is designed to accelerate the translation of research into commercial products and will focus on neurodegeneration, including Parkinson’s disease and other neurodegenerative disorders.

FUNDING SUCCESS

UQCCR enjoyed its most prosperous year ever in 2012 with overall grant money awarded to the Centre totalling $19 million. This includes $2 million awarded by the Australian Cancer Research Foundation (ACRF) to help establish the ACRF Molecular Oncology Translational Imaging Facility at HPRF (see Future Research, page 48) and over $12 million from external sources other than NHMRC and ARC (see Appendix 1: Research Grants 2012, page 52).

2012 BUTTERFLY BALL

The RBWH Foundation’s annual Butterfly Ball raised over $70,000 in 2012 for the Brain Research Advances in Newborns (BRAIN) Project being conducted by the UQCCR Perinatal Research Centre based at RBWH. Celebrating ten successful years, the black tie event was held at the Sofitel Brisbane on Saturday, 27 October, 2012 and was a celebration of Spring, transformation and new beginnings with a ‘butterflies and blooms’ theme. Fresh from their grand final appearance on Australia’s Got Talent, guests enjoyed entertainment from magic, change duo Soru Mystique, the live sounds of band Rush and a three-course meal served up by the award-winning chefs at the Sofitel.
Every year, the Royal Brisbane and Women’s Hospital (RBWH) hosts their annual Healthcare Symposium, showcasing the hospital’s strength in clinical care, research and teaching, attracting hundreds of delegates spanning the full spectrum of the healthcare profession.

The five-day event ends with the highly-anticipated awards ceremony for which the 2012 Steering Committee unanimously nominated Professor Paul Colditz to receive the Distinguished Achievement Award based on his international reputation and sustained research into perinatal disease.

As the Foundation Professor of Perinatal Medicine at UQ, Director of the Perinatal Research Centre (PRC), Deputy Director (Clinical) of UQCCR, NHMRC Practitioner Fellow and a practicing clinician in neonatology, it’s easy to understand why Professor Colditz was selected for this notable award.

From the beginning of his career, Professor Colditz said the focus of his research has been finding innovative solutions to clinically important perinatal health problems to prevent devastating events such as miscarriage, stillbirth and other pregnancy complications.

“Early in my professional life, whilst working in a neonatal intensive care unit, I made the decision to dedicate my life's work to understanding more about the underlying causes of pregnancy and newborn complications, with the goal of establishing a targeted research environment to ensure a healthy start to life for every baby” said Professor Colditz.

“Today I work with and rely upon the knowledge and experience of specialists in medicine, nursing, science, allied health, psychology and engineering to increase our understanding of one of the most important times in our life - our time within the womb.”

While his high impact publications in neuroscience, engineering and randomised controlled trials have defined current clinical practice, Professor Colditz’ work can be seen across a diverse range of subject areas including paediatrics, obstetrics and general medicine, highlighting the multidisciplinary nature of his research.

Boasting a recognised international profile, which has seen him give presentations at conferences and events around the globe, Professor Colditz serves on numerous Conference Organising and Scientific Committees, including the International Paediatric Association.

He is a member of the Scientific Committee of a $13 million European Union FP7 research grant to study the treatment of neonatal seizures (NEMO) and is also a member of the RACP Paediatric Division Council, Chair of its Research Committee and member of its Policy & Advisory Committee.

In addition to being a regular reviewer for numerous journals and national and international research funding bodies, Professor Colditz serves on NHMRC Group Review Panels, including as Chair on the NHMRC Australia Fellowship Review Panel and NHMRC Program Panels, as well as on New Zealand HRC Project and Program Grant Committees.

For UQ, Professor Colditz also plays a significant role in postdoctoral research training of Postdoctoral Fellows and PhD students.
TOBACCO SMOKING IS THE LEADING CAUSE OF PREVENTABLE DEATH IN AUSTRALIA, KILLING 15,000 PEOPLE EVERY YEAR AND ACCOUNTING FOR 8% OF AUSTRALIA’S DISEASE BURDEN.

15,000

HELPING SMOKERS QUIT

Research to reduce smoking prevalence

Every year, Drug Action Week sees hundreds of events shine the spotlight on drug and alcohol problems and treatment across Australia, culminating in a glittering awards dinner, which honours some of the nation’s most inspiring drug experts and programs.

One of Australia’s leading researchers in tobacco harm reduction, Dr Coral Gartner, was awarded the 2012 National Drug and Alcohol Award for Excellence in Research … the second time in three years that a member from Australian Fellow Wayne Hall’s group has won this prestigious award (previously Dr Adrian Carter in 2010).

Dr Gartner received the award for her body of research that includes the evaluation of new strategies to reduce tobacco-related harm, epidemiological monitoring of trends in smoking behaviour and assessment of the impact of neuroscience research on smokers’ understanding of tobacco addiction, quitting self-efficacy and cessation behaviour.

“Tobacco is well known that smoking harms our health and increases the risk of heart disease, cancer, emphysema, stroke and other diseases. While substantial progress has been made in reducing Australia’s smoking prevalence, the decline is slow, with quit rates needing to double over the next 18 years to achieve the national goal of less than 10% smoking prevalence by 2020,” said Dr Gartner.

“Harm reduction strategies, such as switching from cigarettes to lower risk nicotine and tobacco products, have been suggested as a complementary policy to current abstinence-based strategies; however, there have been no large-scale trials into the long-term use of these products in smokers and none that have assessed their performance under realistic policy scenarios, including personal choice and financial cost.”

Dr Gartner hopes to fill this important gap in smoking literature by conducting the first realistic trial of a policy that encourages either quitting or long-term substitution – compared to the current policy that only promotes short-term medicinal nicotine use to achieve abstinence – which would determine if this policy should also be pursued in Australia.

In a separate project, Dr Gartner is evaluating the impacts of promoting a neurobiological view of tobacco addiction on how smokers think about their smoking, their chances of successfully quitting and their preferred quitting method.

“Neurobiological explanations for addiction could assist quitting if these explanations lead to greater use of cessation aids that translate into greater quitting success. Alternatively, promoting a ‘brain disease model’ of smoking could deter quitting by reducing self-efficacy,” said Dr Gartner.

“This project aims to extend our understanding of how neurobiological information may influence smoking and cessation attempts, and will inform policy on whether we focus on encouraging smokers to quit without encouraging a particular quitting method or to seek medical assistance in their quit attempt.”

DR CORAL GARTNER

Research to reduce smoking prevalence
A HEALTHIER START

BABIES AND CHILDREN
Efficacy of infant massage therapy

OF ALL THE TIMES THAT MY HUSBAND AND I FANTASISED ABOUT HAVING OUR FIRST CHILD, THIS WAS NEVER PART OF THE DREAM.

Toni Dougall

After a routine visit to the doctor 27 weeks pregnant, Toni Dougall was admitted to hospital with high blood pressure. As the week went on her symptoms worsened and she was diagnosed with preclampsia – a serious medical condition that, if left untreated, could be life-threatening.

“When my condition continued to deteriorate, my doctor came and told me it was time to take Olivia out. She was born 28 weeks into my pregnancy and it was six long days before we could hold her for the first time out of the isolator,” said Mrs Dougall.

“We spent 10 weeks with Olivia in the hospital, moving from the Intensive Care Unit to Special Care Nursery to Parent Craft, before we were able to take her home two weeks before her original due date.”

Researchers know that babies born very early are at increased risk of not developing normally and that this might result from reduced time in the womb.

Professor Colditz and his team are conducting research to identify whether infant massage therapy – a form of systematic tactile stimulation by human hands consisting in a gentle, slow stroking of each part of the body in turn – has a positive effect on brain development and improves their overall functional outcome.

“Infant massage of very preterm babies, whilst still in the nursery, may provide some of the sensory inputs known to be important to brain development that normally occur in the baby who is still developing in the womb,” said Professor Colditz.

“Despite growing evidence of mother–infant interaction, such as skin-to-skin contact and frequency of maternal touch, having a powerful positive influence on early development, the actual provision of massage by parents is novel in a study.”

A key element in determining the efficacy of massage intervention by the mother is the use of advanced methods to measure brain structure and function. Professor Colditz said these neuroimaging techniques include advanced Magnetic Resonance Imaging (MRI), which shows fine details of the brain structure, and dense array EEG, which provides additional information on the function of the brain.

Toni and her daughter Olivia have taken part in several trials with UQCCR including Prem Baby Triple P (read more, page 18) and this infant massage trial.

“I really enjoyed being a part of the massage trial. It made me feel like there was something that I could do to help Olivia while she was in hospital. Most of the time we had to sit back and watch other people do things with her so it was great to be able to feel useful to her care,” said Mrs Dougall.

In a separate project, Professor Colditz is contributing to ebrain – a program for children with cerebral palsy and other acquired brain injuries to develop and deliver innovative, cost effective rehabilitation therapies in their home via the National Broadband Network. Led by UQ’s Cerebral Palsy and Rehabilitation Research Centre’s Scientific Director Professor Roslyn Boyd, and including Associate Professor Stephen Rose, an imaging expert, ebrain, as with the infant massage study, utilises similar cutting edge neuroimaging to measure how training applications change the brain.

Researchers: Dr Andrea Guzzetta (Stella Maria Scientific Institute, University of Pisa), Dr Giulia D’Acunto (Stella Maria Scientific Institute, University of Pisa), Professor Paul Colditz, Professor Roslyn Boyd (School of Medicine, UQ), Naoni Ngenda (RBWH), Sonia Sam, Dr Simon Finnegan, Associate Professor Stephen Rose (CSIRO).

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LEFT: Toni Dougall with husband Aaron and daughter Olivia

BELOW: Baby wearing EEG cap for infant massage therapy study
Very preterm birth refers to the birth of a baby of less than 32 weeks gestational age. In many situations the cause of preterm birth is elusive and unknown making the reduction of preterm births a challenging proposition for researchers and clinicians alike.

Around 85% of very preterm babies admitted to neonatal intensive care survive, although 10% develop major disabilities, such as cerebral palsy, and 50% develop intellectual, educational and/or behavioural problems, causing emotional and financial stress for parents, families and society.

Early interventions that target parenting hold the greatest potential for improving child development, however, feedback from the parents of preterm infants suggests a lack of information on how they can support their child’s needs.

In a joint project between UQ, Royal Brisbane and Women’s Hospital and the Mater Mothers’ Hospital, Professor Paul Colditz and his team hope to reduce this burden by evaluating the effectiveness of a tailored variant of the Triple P-Positive Parenting Program. Triple P was created by UQ Professor Matthew Sanders and is now one of the world’s most effective parenting programs backed by over 30 years of international clinical research.

“Improving the outcomes for very preterm babies, as we aim to do, is of particular importance given their increased vulnerability to adverse outcomes,” said Professor Colditz.

“As part of the program trial, parents of very preterm infants will learn how to recognise their baby’s needs, teach their baby new skills, develop positive relationships, deal with infant behaviours such as crying, enhance coping skills by identifying personal stressors and build effective partner support strategies.

“Prem Baby Triple P is designed to enhance the knowledge, skills and confidence of parents with preterm infants, reduce psychological adjustment difficulties and contribute to more positive family relationships,” said Professor Colditz.

“IT has the potential to improve educational outcomes for preterm infants through enhanced behavioural, language and cognitive development – all of which are important in functional community contribution in later years.”

Researchers: Professor Paul Colditz, Professor Matthew Sanders (School of Psychology, UQ), Professor Roslyn Boyd (School of Medicine, UQ), Dr Margo Pritchard (School of Medicine, UQ and RBWH), Dr Peter Gray (Mater Health Services), Associate Professor Michael O’Callaghan (Mater Health Services), Dr Virginia Slaughter (School of Psychology, UQ), Dr Koa Whittingham (School of Medicine, UQ).

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Ataxia is a condition that causes a loss of physical coordination due to underlying damage to the nervous system and brain. It can affect every part of the body causing a wide range of symptoms including difficulty walking, speaking, swallowing and performing tasks that require a high degree of physical control, such as writing and eating.

Two forms of hereditary autosomal recessive ataxia – where the genetic mutation can only be passed down if both parents have a copy of the mutated gene – are Friedreich Ataxia (FA), where symptoms begin between ages 5–20, and Ataxia-telangiectasia (A-T), where symptoms begin in infancy or early childhood.

Eleven years ago, Mike Dwyer’s family was shocked to its core when his two daughters, Samantha and Jamie-Lee, were diagnosed with FA at just 10- and 11-years of age respectively. Until that time they were normal healthy kids and the family had never heard of Friedreich Ataxia.

“The diagnosis itself was devastating, but the outlook, or the picture of the future painted for us by medical specialists, was unutterably bleak: rapid deterioration of quality of life leading to wheelchairs followed by premature death around their 20th birthday,” said Mr Dwyer.

With rare diseases like FA and A-T, Mr Dwyer said one of the great challenges his family faced, like most, was finding health professionals that have some experience with the condition. Most doctors will never see a case of ataxia in their whole career and thus have a poor understanding of the disease and related research.

Mr Dwyer’s message for families supporting a person with ataxia, whether FA or A-T, is to come to UQCCR where they will be given the best support available. Then, if possible, become active in supporting research through fundraising.

“Every family can make a difference. There’s some amazing research going on right now, and our view is that our girls’ generation will either be the last to succumb to FA or the first to be cured. There is every prospect of effective treatments or a cure,” said Mr Dwyer.

“Every single specialist we’ve seen at UQCCR has been passionate, caring, empathic and highly skilled. They take a collaborative approach, which extends to a sister-clinic in Melbourne and clinics in the US and Europe, and demonstrate a wonderful willingness to learn from others.”

While there is no known cure or effective treatment for people suffering with ataxia, scientists are getting closer to understanding and combating the disease. In 2012, a collaborative group of researchers, including UQCCR Professor Martin Lavin, were able to reprogram, for the first time, skin cells from people with A-T, allowing them to study the effectiveness of potential treatments.

Researchers: Professor Martin Lavin
Email: m.lavin@uq.edu.au

BACKGROUND: Professor Martin Lavin

1 IN 50,000
KEEPING YOURSELF WELL

ADULTHOOD

UOGCR 2012 ANNUAL REPORT
Almost 10% of Australian adolescents experience hallucinations and other psychotic-like experiences (PLE). Those who report PLE are almost four times more likely to attempt suicide.

Psychosis is a condition of the mind that causes people to misinterpret or confuse what is going on around them. They may experience hallucinations – a symptom of psychosis – in which they see or hear things that are not real, or delusions that affect their beliefs, thoughts, feelings and behaviour.

Youth mental health services aimed at reducing the risk of onset and progression of mental illness is a priority of the Australian government, with early interventions in the prevention of psychotic disorders receiving special attention and funding. While there is some evidence to suggest that hallucinations are associated with an increased risk of later mental health problems, there is debate as to the significance of hallucinations in adolescents and young adults.

Some authors propose that hallucinations in adolescents are mostly benign and transient, while others suggest that the persistence of hallucinations and psychotic-like experiences (PLE) into adulthood may be an important marker of increased risk of later mental disorders.

Child and adolescent psychiatrist Dr James Scott is working to fill this gap in our clinical understanding of hallucinations in young people by conducting the first study to examine the mental health and psycho-social outcomes of hallucinations from data collected in the Mater Hospital University of Queensland Study of Pregnancy (MUSP) birth cohort.

“Compared to psychotic disorders, hallucinations are relatively common in the general population, affecting about 1 in 10 adolescents. The commonality of hallucinations – often associated with living in a non-intact family, depression, internalising and externalising symptoms and cannabis use – has sometimes contributed to the misdiagnosis, stigma and inappropriate prescribing of antipsychotic medications,” said Dr Scott.

“Amongst our investigations, we hope to determine whether experiencing hallucinations at an early age increases the risk for developing psychotic disorders (schizophrenia, bipolar affective disorder and delusional disorder), non-psychotic disorders (anxiety, depression, substance abuse and personality disorders), suicidality, impairment in social and occupational functioning and reduced quality of life at 30-years of age.”

Dr Scott said longitudinal, population-based studies of the course of hallucinations across adolescence and young adulthood are necessary in order to understand the factors that lead some individuals to develop a psychotic disorder, others to experience depression and anxiety and some to be free of mental ill health.

“Adolescents and young adults who experience hallucinations lie on a phenotypic continuum between those who are well and those with severe and disabling psychotic disorders,” said Dr Scott.

“The results of our study will inform research related to the identification and treatment of individuals at high risk of psychosis, as well as providing a gold-standard diagnostic protocol that will hopefully facilitate a broad range of research related to the antecedents and risk factors for psychotic disorders.”

Researchers: Dr James Scott, Michael Duhig, Melissa Connell, Alex Ryan and Hannah Thomas.

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Unintended pregnancy is a key preventable public health issue in Australia that carries significant social, health and financial costs.

Anne is a 20-year-old woman who lives in a country town with her partner of one year. She is on ‘the pill’ but thinks it might be the cause of her weight gain and depression.

When Anne goes to the doctor to discuss other forms of contraception the doctor is running late and has a waiting room full of patients. Discussing long-acting reversible methods of contraception takes time and the doctor isn’t up-to-date with the latest methods and doesn’t approve of pre-marital sex. He gives Anne a script for a different pill and she leaves feeling embarrassed and uncertain of what to do next.

Effective contraception enables people to control their fertility according to their desires and circumstances but access to sexual and reproductive health services can be substantially more difficult for people, like Anne, living in rural Australia.

For many, services may be hundreds of kilometres away with limited numbers of general practitioners and long waiting times for appointments. Cost can also be a barrier where bulk billing is unavailable or contraceptives are not subsidised.

In a collaborative study supported by the Australian Research Council and partner organisations, Family Planning NSW and Bayer Australia Ltd, Associate Professor Jayne Lucke is investigating unintended pregnancy and access to contraception among women aged 18–23 years in rural and urban areas.

The Contraceptive Use, Pregnancy Intention and Decisions (CUPID) Australian Women study is the first step toward understanding how access to effective contraception can be improved, particularly in rural areas,” said Associate Professor Lucke.

“The study will examine what young women know, think and do about avoiding unintended pregnancy and using contraception. It will look at patterns of contraceptive change and why women change the methods they use.

“Most importantly it will examine differences between rural and urban areas of Australia in regards to where women can get contraception, advice and information.”

Associate Professor Lucke says the findings from the CUPID study will be used to make suggestions about how to improve contraceptive services and advice, and could act as a pilot study for a regular survey of fertility.

“In order to assist policy makers, GPs and other health service providers working for improvements in Australia’s sexual and reproductive health, it is essential that we find out more about contraception use and access to services,” said Associate Professor Lucke.

“The CUPID study will help us define more innovative ways to provide access to sexual health information and appropriate contraception in rural areas to overcome the particular problems posed by distance.”

Researchers: Associate Professor Jayne Lucke, Associate Professor Deborah Loxtan (UNSW), Professor Christina Lee (School of Psychology, UQ), Professor Annette Dobson (School of Population Health, UQ), Professor Ian Fraser (University of Sydney), Dr Edith Weisberg (Family Planning NSW).

Partner Organisations: Family Planning NSW, Bayer Australia.

Email: j.lucke@uq.edu.au

ARE YOU A YOUNG WOMAN AGED 18–23 YEARS?
If so, scan the QR Code to take part in the CUPID survey or visit www.uqccr.uq.edu.au/cupid
The global prevalence and health burden of illicit drug use forms the basis of an acclaimed new study published in the Lancet that has identified cannabis as the most widely-used illicit drug in the world and opioid use as the major cause of death.

In a study that has received widespread international attention, Professor Wayne Hall, in collaboration with Professor Louisa Degenhardt from the Burnet Institute in Melbourne, set out to determine the extent of illicit drug use and dependence worldwide and its contribution to the global burden of disease.

"Through a variety of resources we were able to summarise the prevalence, correlates and health consequences of illicit drug use to determine which are the most commonly used, those that cause the most harm, the types of harm, and research priorities for better understanding illicit drug use and drug-related harm globally," said Professor Hall.

The study revealed that of an estimated 149–271 million people who used an illicit drug worldwide in 2009, about 125–203 million were cannabis users; 15–39 million problem users of opioids, amphetamines or cocaines; and 11–21 million people injected drugs.

Australia and New Zealand topped the list globally for consumption of both marijuana and amphetamines with 15% of the countries’ populations aged 15–64 years using either drug at least once in 2009.

"The results were not surprising and reflected trends that have been in place for more than a decade," said Professor Hall.

"I think a lot of young people see cannabis in the same way that we see alcohol – as no big deal, as a drug just to use to have a good time – but regular use does come with some major adverse health effects including drug dependence and psychotic or mental disorders."

While cannabis was by far the most widely-used illicit drug on the planet, heroin and other opiates cause the most harm including drug dependence, overdose deaths, accidents, violence, HIV/AIDS and other blood-borne infections.

"The disease burden of illicit drug use comes mostly from the minority of individuals who become dependent on or inject them, usually from high-income countries and in countries near major drug production areas," said Professor Hall.

"Much of the burden attributable to injecting drug use can be prevented or reduced by needle and syringe programmes, opioid substitution treatment and antiretroviral therapy."

Researchers concluded that intelligent policy responses were urgently needed to address drug problems globally; however, more information was still needed on the global prevalence and health burden of illicit drug use, particularly for developing countries where data was largely missing and of varied quality.

Researchers: Professor Wayne Hall and Professor Louisa Degenhardt (UNSW). Email: w.hall@uq.edu.au
Humanity faces a frightening future. Armies of invisible creatures, infecting communities and spreading across continents might sound like a sci-fi horror film but the very real threat of superbugs – infections caused by bacteria resistant to multiple antibiotics – is something Australians have been warned about for over two decades.

Born from the overuse and abuse of antibiotics, one of the few remaining treatment options for superbugs are carbapenem antibiotics, a powerful family of drugs often used as a last resort for treating serious infections. However some bacteria are resistant to carbapenem antibiotics. New Delhi Metallo-beta-lactamase-1 (NDM-1) producing bacteria and OXA-23 producing Acinetobacter baumannii (A. baumannii) usually affect immunocompromised or critically ill patients and are only susceptible to colistin and tigecycline treatments, which carry dangerous side effects including toxicity.

Dr Hanna Sidjabat said NDM-1 could be the predominant and most notorious superbug worldwide in the future. She is studying the genome of NDM producers from Australia, Thailand, New Zealand and Pakistan to find possible target genes that would help control its spread.

“What makes the NDM-1 gene so dangerous and worrisome for scientists around the world is that the gene can jump easily from one bacteria strain to another through a process called horizontal gene transfer,” said Dr Sidjabat.

“Nowadays, the NDM-1 gene jumps to already antibiotic-resistant bacteria, such as E. coli and Klebsiella pneumoniae, producing a range of even more serious, dangerous and untreatable infections that spread rapidly from human to human.”

In certain geographic areas, NDM-1 producing Acinetobacter spp. has also been found not only from patients and hospital waste, but also from food-producing animals. In certain geographic areas, NDM-1 producing Acinetobacter spp. has also been found not only from patients and hospital waste, but also from food-producing animals.

Professor David Paterson said that while A.baumannii is uncommon, there has been an increase in the number of reported cases, especially at military medical facilities overseas and hospitals in tropical countries.

“The scenario is you’re travelling to an exotic place and, just as any tourist, you’ll face diseases you don’t face in Australia. If a soldier is wounded in battle, taken to a regional hospital and then a larger base, we know that people have acquired infections in these circumstances,” said Professor Paterson.

“By identifying genes and proteins that may be involved in forming biofilm (and thus its prevalence in hospitals) we hope to develop effective strategies for biofilm control and improvement in patient care and management.”

Superbug survivor, Mr Golding wasn’t sure whether to believe doctors when they said he had been infected with an antibiotic resistant infection. Traditional methods of bacterial diagnosis can take weeks and doctors sometimes need to prescribe treatment based on symptoms rather than microbiology.

Hoping to improve the way doctors currently identify bacteria afflicting patients, Mr Golding and his wife were inspired to make a generous donation towards the study of the genetic code of superbugs at UQ.

“I wanted a way for doctors to diagnose infections based on science, not guesswork, and I hope this donation will prove successful,” said Mr Golding.
Breast cancer is the most commonly diagnosed cancer among women in Australia. One-in-eight women will develop the disease over her lifetime, with two-in-three cases of breast cancer occurring in women aged 40–69 years.

Patients diagnosed with high-grade invasive ductal carcinoma – the most common type of breast cancer in women – has varied outcomes for patients, with some surviving long-term and others dying within two years.

This diversity between patients forms the basis of a new study being conducted by Dr Ben Green, UQCCR PhD student and breast surgeon at the Royal Brisbane and Women’s Hospital (RBWH), who has taken on this project as part of an academic fellowship (provided by the Office of Health and Medical Research) that allows clinicians to perform active clinical work whilst undertaking clinical research.

Under the guidance of Professor Sunil Lakhani, Dr Green will lead a coordinated prospective trial of high-risk breast cancer patients from the RBWH over five years, uniting several clinical disciplines – surgery, radiology pathology and oncology – with the Breast Pathology Lab at UQCCR, the Cancer Genetics Lab at QIMR and the RBWH Surgical Breast Unit.

“The heterogeneity in breast cancer genetics and molecular profiles presents a challenging management strategy for determining which patients are most at risk of metastatic progression and requiring more aggressive intervention and surveillance,” said Dr Green.

“Through this study, we primarily hope to identify which mechanisms cause the progression of high-grade breast tumours and secondly, to detect potential biomarkers that will help monitor and predict patient response to treatment.”

These biomarkers refer to specific tumour DNA, detected in the patient’s blood, which is believed to peak at the time of diagnosis and decline, post-surgery, if adjuvant therapies are successful.

“Having a more detailed understanding of breast cancer tumour biology could help tailor the treatment plan of patients and increase their chance for survival,” said Dr Green.

“These biomarkers would allow for the early detection of treatment failure, prior to disease recurrence becoming clinically or radiologically detected, allowing for alterations in treatment plans that could potentially save a patient’s life.”

Research Nurse at UQCCR, Colleen Niland, will be facilitating and coordinating the follow-up of patients enrolled in the study thanks to funding from QIMR and the Rio Tinto Ride to Conquer Cancer research grants.

Researchers: Dr Ben Green, Professor Sunil Lakhani, Professor Kum Kum Khanna, Professor Georgia Chenevix-Trench, Dr Peter Simpson, Dr Jody Saunus, Dr Amy Reed, Dr Chanel Smart, Dr Mythily Mariasegram, Associate Professor Owen Ung (RBWH), Colleen Niland.

Email: ben.green78@me.com
HEALTHIER AND HAPPIER FOR LONGER

MATURE-AGE AND ELDERLY
Stroke is the second largest cause of death worldwide and a leading cause of disability. In Australia, around 300,000 people are currently living with the disabling effects of stroke and that number will continue to increase with the ageing population unless treatment of stroke patients can be enhanced.

A promising new study has revealed that early brain monitoring of stroke patients using Quantitative EEG – a medical test that measures the electrical activity of the brain – could inform and expedite critical treatments and therefore help minimise brain damage and disabilities typically suffered by stroke victims.

Dr Simon Finnigan, in collaboration with Professor Michel van Putten from Medisch Spectrum Hospital and University of Twente in the Netherlands, authored an invited review of all published QEEG studies of stroke worldwide.

“The main goals of this research were to evaluate key findings, identify common trends and determine what the future priorities should be for research and the clinical management of stroke patients,” said Dr Finnigan.

“The study highlighted that QEEG indicators can help predict long-term deficits caused by stroke and, secondly, provide immediate information on how patients are responding to treatments and promptly guide decisions about follow-on treatments, even before stroke symptoms change,” he said.

In a typical scenario, a person who suffers a stroke will receive a drug – called tissue plasminogen activator (TPA) – which can dissolve blood clots and must be given intravenously within 4.5 hours after the onset of symptoms.

However TPA doesn’t always dissolve the clots (which cause most strokes) and in these cases new “clot retrieval” therapies can be successful if performed quickly.

At present doctors need to wait for an hour or more to tell whether stroke symptoms are improving after TPA or clot retrieval is required; all the while knowing that “time is brain” and the risk of damage and deficits increases with each passing moment.

Dr Finnigan says QEEG measures could accurately indicate whether or not the brain was responding to treatment up to an hour before the symptoms might improve, thus expediting the time-sensitive delivery of follow-on treatments.

“This is a critical difference when ‘time is brain’ and clinicians are trying to restore brain blood supply before it’s too late. If QEEG can enable clinicians to start other treatments faster, this could help minimise brain damage and deficits,” he said.

Dr Finnigan is currently working on this research at the Royal Brisbane and Women’s Hospital (RBWH) with neurologists Dr Andrew Wong (Director, Neurology Department), Dr Stephen Read and Dr Nabeel Sheikh, occupational therapist Tennille Rowland, neuroradiologist Professor Alan Coulthard (Department of Medical Imaging) and PhD student Emma Schleiger. This research is partly funded by UQ, the RBWH Foundation, National Stroke Foundation, and a NHMRC Career Development Award to Dr Finnigan.

Researchers: Dr Simon Finnigan, Dr Stephen Read (RBWH), Dr Andrew Wong (RBWH), Dr Nabeel Sheikh (RBWH), Ms Tennille Rowland (RBWH), Professor Alan Coulthard (RBWH), Ms Emma Schleiger.

Email: finnigan@uq.edu.au

Dr Simon Finnigan

OVER 60,000 AUSTRALIANS SUFFER A STROKE EACH YEAR. THAT’S ONE STROKE EVERY 10 MINUTES.

60,000
Dementia describes a collection of symptoms, including progressive and frequent memory loss, communication and personality changes, confusion and the loss of ability to perform everyday tasks, which are caused by disorders affecting the brain.

As there is currently no prevention or cure for most forms of dementia, having the assistance and support of family, friends and carers can make a positive difference to managing the condition.

That is why a diverse team of clinicians, researchers and educators from across the healthcare profession, led by Professor Helen Chenery, developed a video-based training program – titled RECAPS and MESSAGE – to support family members, friends and the dementia care workforce in delivering strategies that support memory and communication in people with dementia.

With almost 280,000 Australians currently living with dementia, plus 1,600 new cases identified every week, we wanted to find the most effective way to assist people who were transitioning from their home into a residential care facility,” said Professor Chenery.

“Through developing training material that was free, easy to remember and accessible to both home carers and staff from residential aged care facilities, we hoped to lessen the impact of this transition for both the person with dementia and their care givers,” said Professor Chenery.

The content of the training program was developed following a careful selection of relevant research-based information and pilot testing of various dissemination media. Subsequently, and as part of their research into the efficacy of the training program, forty-one pairs of caregivers and care recipients in South East Queensland volunteered to provide feedback on the training, its usefulness and application.

“Overall, caregivers receiving the RECAPS and MESSAGE training experienced high levels of satisfaction, reporting that the training was helpful and easy to apply, with 100% of caregivers indicating they would recommend it to other family and friends,” said Professor Chenery.

Researchers also evaluated the efficacy of the training program on nursing assistants, qualified nurses and recreational/activity officers across four residential care facilities in Queensland.

“Professional caregivers also rated the training positively, both for usefulness and applicability, experiencing improved knowledge of support strategies for memory and communication – results which were maintained even at the three-month follow-up,” said Professor Chenery.

Whilst the research has been published in various high impact scientific journals, the greatest community impact has been through its presence on YouTube.

After rolling out the RECAPS and MESSAGE training program across their facilities in May 2012, Memory Support Advisor at Blue Care Denise Edwards said she had received optimistic feedback from staff about the usefulness of the program.

“The feedback from our staff indicates that the MESSAGE and RECAP training DVD’s have been a very useful resource. Our services have been using them in orientation and as a refresher for staff with positive results,” said Ms Edwards.

Researchers: Professor Helen Chenery, Associate Professor David Copland, Dr Rosemary Baker, Dr Erin Conway, Professor Cindy Gallois (Faculty of Social and Behavioural Sciences, UQ), Professor Nancy Pachana (School of Psychology, UQ), Professor Michael Humphreys (School of Psychology, UQ), Dr Megan Broughton (School of Psychology, UQ), Dr Anthony Angwin (School of Health and Rehabilitation Sciences, UQ), Professor Gerard Byrne (School of Medicine, UQ), Professor Desley Hegney (University of Western Australia).

Email: h.chenery@uq.edu.au

ACCESSTHEDEMENTIACARESTRAININGPROGRAM
The RECAPS and MESSAGE training videos for dementia care are FREE and can be viewed on YouTube (search UQ Dementia Care) or by scanning the QR Code.

Approximately 1 million Australians will suffer from dementia by 2050.
Sufferers of Parkinson’s disease and other serious brain disorders found renewed hope in 2012 with the opening of a new multi-million dollar Asia Pacific Centre for Neuromodulation (APCN) in Brisbane.

Located within the University of Queensland’s Centre for Clinical Research (UQCCR), the APCN is a joint initiative of UQ and St Andrew’s War Memorial Hospital with current cash and in-kind commitments to the Centre totalling more than $10 million over five years.

“From this foundation, APCN is seeking to attract new collaborative partnerships with clinicians, research scientists and institutions across the Asia-Pacific region” said Professor Helen Chenery, Director of APCN.

“This platform will support APCN to build a partner / collaborator network that will have the critical mass to tackle important research and clinical challenges in this growing field of neuromodulation, and secure the strategic national and international funding needed to develop and assess the growing number of applications for neuromodulation therapies.”

The Centre builds on two decades of groundbreaking clinical research in the application of Deep Brain Stimulation (DBS), a neuromodulation procedure to treat Parkinson’s disease, Dystonia, Essential Tremor, Post-stroke disorders, Tourette’s syndrome, Intractable Pain and Epilepsy.

Central to the Centre’s establishment are world leaders in DBS surgery, neurologist and Professor of Clinical Neuroscience at UQ, Professor Peter Silburn AM, and neurosurgeon Associate Professor Terry Coyne, both of whom have formal appointments with UQCCR and are based at St Andrew’s Hospital.

Over two decades Professor Silburn and Associate Professor Coyne have trained 85% of DBS practitioners in Australia and have performed more than 500 DBS procedures – more than any other team in the Asia-Pacific.

The duo recently performed their 500th Deep Brain Stimulation surgery, as a team, on a 61-year-old woman with Parkinson’s disease.

“Our 500th patient, whom we operated on together, runs a cattle station in north-west Queensland and her Parkinson’s made it impossible for her to live a normal life,” said Professor Silburn.

“DBS has offered her the opportunity to improve the quality of her life.”

Deep Brain Stimulation involves surgically implanting electrodes in a deep part of the brain. This brain “pacemaker” sends electrical impulses to a targeted area on each side of the brain to block the signals that cause the disabling motor symptoms.

“Each DBS surgery is transforming lives,” said Professor Silburn. “Our 500th patient is a shining example of what DBS can achieve for people who suffer from debilitating neurological conditions.”

“DBS provides a non-invasive, targeted treatment for a variety of neurological conditions, offering significant improvement in symptoms for many patients,” said Professor Coyne.

“APCN will integrate research, education and clinical care, and aims to become the data hub for our region, linking to an international research and clinical database on neuromodulation technology and procedures.”

“One of the Centre’s goals is to convert knowledge and research into improved treatments for patients suffering from debilitating neurological diseases and conditions,” said Professor Silburn.

“It’s about taking what we’ve learned so far about DBS, recording what is happening in people’s brains to learn more about how the brain functions and what parts are responsible for these problems.”

64,000 AUSTRALIANS CURRENTLY SUFFER FROM PARKINSON’S DISEASE — A FIGURE THAT IS EXPECTED TO INCREASE BY 80% OVER THE NEXT TWENTY YEARS.
BACKGROUND: Mr Graham Perrett presenting at the International FASD Awareness Day

INTERNATIONAL FASD AWARENESS DAY
Over 90 people from the local community joined researchers and experts for a Symposium on the prevention, diagnosis and management of Fetal Alcohol Spectrum Disorder (FASD) held in the UQCCR Auditorium on Wednesday, 5 September, 2012. The Symposium, which marked International FASD Awareness Day (Sunday, 9 September, 2012) was designed to educate the public about the dangers of drinking during pregnancy.

Amongst the key speakers who presented at the Symposium was Paediatrician Dr Doug Shelton, who talked about the prevalence of FASD, and Mr Graham Perrett, Federal Member for Moreton and Chair of the House of Representatives Inquiry into FASD, who discussed the findings from the 2012 Inquiry.

HOSTING NATIONAL UNIVERSITY OF SINGAPORE STUDENTS
Dr Jan Yau and PhD student Hsinan Zowawi each hosted a student from the National University of Singapore (NUS) High School of Mathematics and Science from 1-7 August 2012. These two final-year students spent their week visiting labs and talking to UQCCR researchers about their projects to gain a comprehensive overview of research options and experiences within the medical and health sciences.

APCN: DEEP BRAIN STIMULATION SYMPOSIUM
The Asia Pacific Centre for Neuromodulation (APCN) presented a Symposium on Deep Brain Stimulation in Children: An International Perspective at the Victoria Park Golf Complex on Saturday, 26 May, 2012. Speakers included world-renowned DBS surgery team, neurologist Professor Peter Silburn AM and neurosurgeon Associate Professor Dr Terry Colditz, along with Professor Jean Piem Lin, consultant Paediatric Neurologist at Evelina Children’s Hospital in London.

ADDICTION NEUROSCIENCE WORKSHOP AT MACQUARIE UNIVERSITY, SYDNEY
Professor Wayne Hall and Dr Adrian Carter presented an Addiction Neuroscience Workshop at Macquarie University in Sydney on Tuesday, 24 July 2012. A central focus of the workshop was their new book Addiction Neurosciences: The Promises and Perils of Neuroscience Research on Addiction (Cambridge University Press 2012), which examines the social, ethical and public policy issues raised by neuroscience research and its potential applications in the treatment and prevention of addiction and the formulation of social policies towards drug use.

WAYNE HALL TALK AT THE UNIVERSITY OF CAMBRIDGE
As part of the Bradford Hill seminar series at the University of Cambridge in the United Kingdom, Professor Wayne Hall presented a talk titled Exploring possible futures of Tobacco Control in Australia: High tech, low tech and no tech. Professor Hall reported on research done over the past eight years assessing three types of strategies (hi, low and no tech) for reducing smoking prevalence under 10% by 2020 – a target recently set by the Australian Government – comparing the likely health impacts of these strategies and the ethical and public policy implications that they raise.

STUDENT WORKSHOPS
The UQCCR Student Committee organised two workshops on crafting and writing thesis’ and journals in 2012. Over 70 students and early career researchers from a range of different schools, including UQCCR, School of Population Health, Queensland Institute of Medical Research, School of Medicine and Mater Medical Research Institute, learned the basic principles on how to get their work published, gaining insight into the common mistakes and strategies that could help them improve the quality of their own writing.

SEMINAR SERIES
Each week throughout 2012 clinicians, researchers, students and staff from UQCCR, Queensland Institute of Medical Research, Royal Children’s Hospital and Royal Brisbane and Women’s Hospital came together to enhance their learning through a regular seminar series held in the UQCCR auditorium.

RBWH SYMPOSIUM
The 21st annual Royal Brisbane and Women’s Hospital Symposium was held from 8–12 October 2012 in the RBWH Education Centre at Herston. More than 100 people directly participate in the event as presenters, committee members or as adjudicators, representing a significant contribution from hospital staff as well as invited faculty. UQCCR Director Professor Murray Mitchell and Dr Simon Finnigan served as adjudicators on the awards panel, the top honour of the night going to Professor Paul Colditz (read more...).
FUTURE RESEARCH

IMPROVING PATIENT OUTCOMES THROUGH PROCUREMENT AND EXPANSION
A multi-million dollar grant from the Australian Cancer Research Foundation (ACRF) has allowed for the purchase of cutting-edge imaging equipment that will improve the diagnosis and treatment of cancer in patients.

The grant will be used to help establish the ACRF Molecular Oncology Translational Imaging Facility as a contribution towards the procurement of two hybrid scanners – an MRI/PET and PET/CT machine.

Associate Professor Stephen Rose, Honorary Principal Research Fellow at UQCCR, said the new imaging facility will be the only one of its kind in Australia and one of only a handful in the world.

“This imaging facility will put UQCCR in a position to perform ground-breaking oncology research by utilising state-of-the-art imaging technology, opening new funding opportunities and attracting top cancer researchers to the Herston campus,” said Associate Professor Rose.

The analysis of brain tumours, head and neck cancers, ovarian and prostate cancers will be a particular focus of the research team, led by Associate Professor Rose, and clinical trials will also be conducted within the facility to assess the performance of new cancer drugs.

By providing better quality metabolic images these hybrid scanners have the potential to revolutionise cancer research and patient treatment through the application of improved diagnostic and therapeutic strategies.

“Current imaging methods, such as MRI, don’t always allow accurate detection of where the tumour or metastases exist in the body,” said Associate Professor Rose.

“With Hybrid Molecular Imaging Technology – combining two different types of scanners within a single scanner – we’ll be able to locate where the tumour is in the body and biological information about the cancer to improve diagnosis, optimise treatment planning and monitor whether therapy is working.”

Executive Dean of the UQ Faculty of Health Sciences Professor Nick Fisk said the imaging grant is a solid example of collaboration between the Royal Brisbane and Women’s Hospital (RBWH), Queensland Institute of Medical Research, UQ and Queensland University of Technology on the Herston Campus.

“The molecular scanning equipment will improve patient outcomes through earlier diagnosis and tailored treatment, accelerate clinical trials to get new therapies evaluated sooner, and help develop novel approaches to tracking and destroying cancer cells,” said Professor Fisk.

The ACRF Molecular Oncology Translational Imaging Facility will be located within the Herston Imaging Research Facility (HIRF) at UQCCR and adjacent to the RBWH.

Construction on HIRF begins mid 2013.
APPENDICES

LEADERS IN RESEARCH EXCELLENCE, CLINICAL PARTNERSHIPS, MENTORSHIP AND SERVICE
New grants awarded in 2012 with a UQCCR lead investigator totalled $19,136,921. UQCCR researchers are indicated in bold.

<table>
<thead>
<tr>
<th>Granting Body</th>
<th>Investigators (CI's only, not AI's)</th>
<th>Project Title</th>
<th>Dates</th>
<th>Total Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINDB Foundation of British Columbia</td>
<td>Carter A, Reiner P</td>
<td>Development of evidence-based national for delivering messages to the public to reduce the stigma and discrimination of mental illness</td>
<td>2012-2012</td>
<td>$20,000.00</td>
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<tr>
<td>UQ - Early career research grant scheme</td>
<td>Carter A, Dissamayak N, O'Sullivan J, Hall W</td>
<td>Perspective and experiences of Parkinson's disease patients with drug-induced impulse control disorders: A qualitative study</td>
<td>2012-2012</td>
<td>$36,000.00</td>
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<td>UQ - New Staff Research Start Up Fund</td>
<td>Carter A</td>
<td>Clinician attitude toward using contingency management programs to treat drug addiction</td>
<td>2012-2013</td>
<td>$11,382.00</td>
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<tr>
<td>NHMRC Project Grant</td>
<td>Colditz PB, Sanders M, Brand P, Pritchard M, Gray P, O'Callaghan M, Slaughter V, Whittingham K</td>
<td>A randomised controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants</td>
<td>2012-2016</td>
<td>$996,337.00</td>
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<tr>
<td>ARC Discovery Project Grant</td>
<td>Copland DA, McMillan K, Silburn P, Anglem A, Crossen B</td>
<td>Control of language production and its neural substrates</td>
<td>2012-2014</td>
<td>$333,000.00</td>
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<tr>
<td>Group of Eight Australia - Germany Joint Research Co-operation Scheme</td>
<td>Copland DA, Fiala A, Meinzer M, Rodriguez A</td>
<td>Enhancing language learning through physical exercise and cortical stimulation</td>
<td>2012-2013</td>
<td>$15,400.00</td>
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<tr>
<td>Cancer Council Queensland</td>
<td>Cummings M, Lahkani S, Simpson P, Stratton M</td>
<td>Re-defining the molecular evolution of breast cancer and its precursors</td>
<td>2012-2013</td>
<td>$200,000.00</td>
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<td>Multiple Sclerosis Research Australia</td>
<td>Greer J, Pender M, Pow D</td>
<td>Understanding the interplay between the spectrum of glial and neuronal autotoxins and clinical outcome in multiple sclerosis</td>
<td>2012-2013</td>
<td>$50,000.00</td>
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<tr>
<td>UQ - Collaboration and Industry Engagement Fund</td>
<td>Khosrotehrani K, Preis T</td>
<td>Routine assay to determine response to Brelin inhibition therapy in melanoma</td>
<td>2012-2013</td>
<td>$72,850.00</td>
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<tr>
<td>NHMRC Project Grant</td>
<td>Lingwood BE, Wright I, Lumbers E, Colditz PB</td>
<td>An integrated approach to targeting support in preterm necrotic</td>
<td>2012-2014</td>
<td>$670,905.00</td>
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<tr>
<td>Royal Brisbane and Women's Hospital</td>
<td>McCombe P</td>
<td>Genetic factors that predispose to GBS and CIDP</td>
<td>2012-2012</td>
<td>$30,000.00</td>
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<tr>
<td>Motor Neuron Disease Research Institute of Australia</td>
<td>McCombe P, Henderson R, Rose SE, Wallace P, Petitt AP, Robinson G</td>
<td>MND: Not a Simple Disease</td>
<td>2012-2012</td>
<td>$100,000.00</td>
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</tbody>
</table>
UQ CRC received three equipment grants as part of the 2012 Major Equipment Initiative. UQ CRC researchers are indicated in bold.

<table>
<thead>
<tr>
<th>Major Contributor</th>
<th>Investigators</th>
<th>Project Title</th>
<th>Dates</th>
<th>Total Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>NHMRC Equipment Grant</td>
<td>Pettit AR, Koehorstehran K, Fisk N, Raggatt L</td>
<td>Multi-user in vivo and ex vivo tissue-level mechanical testing instrument for bone and stem cell research</td>
<td>2012</td>
<td>$30,500.00</td>
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</tbody>
</table>

New grants awarded in 2012 where a UQ CRC investigator is part of the research team total $18,027,280.00. UQ CRC researchers are indicated in bold.

<table>
<thead>
<tr>
<th>Granting Body</th>
<th>Investigator(s), CF only, not AI(s)</th>
<th>Project Title</th>
<th>Dates</th>
<th>Total Grant Amount</th>
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</thead>
<tbody>
<tr>
<td>UQ</td>
<td>Gardner C</td>
<td>Text of a new motivational intervention for smoking cessation, incorporating mobile phone reminders</td>
<td>2013</td>
<td>$39,000.00</td>
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</tbody>
</table>
Granting Body
TPCH FOUNDATION MS2011-35

Investigator (CI’s only, not A/r’s)
Walk M, Natalmartadi M, Walker PJ

Project Title
Inhibition of inflammatory activity and extracellular matrix degeneration and prevents acute aortic dissection

Dates
2012

Total Grant Amount
$100,000.00

The Wm Wrigley Jr Company Foundation ADAF Community Service Grants
Ford PJ, Farah CS

Project Title
Integrating Oral Health Care into a Homeless Service

Dates
2012

Total Grant Amount
$6,000.00

Dental Hygienists’ Association of Australia Research Fund
Moore K, Farah CS, Ford PJ

Project Title
Support needs and treatment experience of oral cancer patients and their caregivers: quality of life implications and recommendations for multidisciplinary approaches to treatment

Dates
2012

Total Grant Amount
$1,500.00

Monash University

Project Title
A definition and exploration of fitness for purpose

Dates
2012

Total Grant Amount
$99,912.00

Queensland Government Smart Futures Fund Co-Investment Fund

Project Title
Translating Health Discoveries into Products

Dates
2012-2014

Total Grant Amount
$4,796,000.00

RBWH Foundation
Donovan T, Lingwood B

Project Title
Premier Infant’s Growth: When and Why Do the Babies Get Fat?

Dates
2012-2013

Total Grant Amount
$38,984.00

NHMRC Project Grant
Upton Z, Doran M, Kheorethnawt K

Project Title
Innovations in Diabetic Foot Ulcer (DFU) Wound Care

Dates
2013-2015

Total Grant Amount
$387,711.00

Books 2012

Book Chapters 2012


endocrinology. doi: Artn 721653 Doi 10.1155/2012/721653.


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Prichard, K. M., Edwar

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APPENDICES

APPENDICES


332. Mitchell, M.D.

331. Zohr

326. Fracture Risk. Plos Genetics, 8(7). doi: ARTN e1002745


321. Zhang, Z. Y


314. 10.1111/j.1464-410X.2012.11479.x.

315. Y


306. 10.1038/Leu.2012.17.


309. 10.1038/embor.2012.225.


312. 10.1016/j.ajhg.2012.01.003.

313. 10.1093/Cid/Cis194.

314. 10.1093/jac/dkr378.


316. 10.1038/jn.2012.1.

317. Ethical issues in research on cognitive enhancers for healthy individuals. EMBO reports.


319. 10.1093/clinchem/hvs070.


321. 10.1007/s12020-012-9407-z.

322. 10.1143/IJS.13.10.13667.

323. 10.1143/IJS.13.10.13667.

324. 10.1111/j.1600-0652.2010.00929.x.

325. 10.1038/ijms131013667.


### AWARDS 2012

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Professor Paul Colditz</td>
<td>Distinguished Achievement Award at the 21st annual RBWH Healthcare Symposium</td>
</tr>
<tr>
<td>Associate Professor Kiarash Khosrotehrani</td>
<td>NHMRC Achievement Award</td>
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<tr>
<td>Associate Professor Camile Farah</td>
<td>Fellow of the Pierre Fauchard Academy</td>
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<tr>
<td>Associate Professor Jayne Luxie</td>
<td>Illumina Research Excellence Award – Ovation 2012</td>
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<tr>
<td>Dr Adrian Carber</td>
<td>Australian Professional Society of Alcohol and Other Drugs, Early Career Award for Excellence in Research and Science</td>
</tr>
<tr>
<td>Dr Carlos Salamon</td>
<td>UQ Postdoctoral Research Fellowship Award</td>
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<tr>
<td>Dr Coral Gartner</td>
<td>Excellence in Research for the Joint Bridging the Gap Initiative</td>
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<tr>
<td>Dr Emma Duncan</td>
<td>2012 Australian and New Zealand Bone and Mineral Society Kaye Libberton Award</td>
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<td>2012 Christian Researcher of the Year, Australian Society for Medical Research (Queensland)</td>
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<td>2012 Endocrine Society of Australia Mid-Career Award</td>
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<td></td>
<td>2012 Best Basic Science Free Paper, Australian Rheumatology Association</td>
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<td>2012 Paper of the Year runner-up – University of Queensland Diamantina Institute</td>
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<tr>
<td>Dr Hanna Sitjakat</td>
<td>Biorad Laboratories Research Excellence Awards – Ovation 2012</td>
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<tr>
<td>Dr Keith Ashman</td>
<td>ABBsix Research Excellence Award – Ovation 2012</td>
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<tr>
<td>Dr Nadeeka Dissanayaka</td>
<td>Best Presentation Award at Parkinson’s Australia National Conference</td>
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<tr>
<td>Dr Shyuan Ngo</td>
<td>2012 Australian Academy of Science France-Australia Science Innovation Collaboration (FASC) Program Early Career Fellowship</td>
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<td>GFR/ISF-1 Society Travel Grant</td>
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<td>Ms Laurie Beechey</td>
<td>Zip Professional Development Award – Ovation 2012</td>
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<tr>
<td>Ms Rebecca Johnston</td>
<td>GE Healthcare 2011 IN Cell Analyzer Image Competition Winner</td>
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<tr>
<td>Ms Shiree Heath</td>
<td>Shimadzu Outstanding Young Investigator Award – Ovation 2012</td>
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<tr>
<td>Dr Margo Pritchard</td>
<td>Best Presentation in ESPNIC Category at the 4th congress of the European Academy of Paediatric Societies Istanbul, Turkey</td>
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<td>Best Poster Presentation at the 21st annual RBWH Healthcare Symposium</td>
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<tr>
<td>Dr Simon Finnigan</td>
<td>Best Clinical Science Poster at the 21st annual RBWH Healthcare Symposium</td>
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### STUDENT AWARDS 2012

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Adeline Chan</td>
<td>Best Poster Presentation – Basic Science at the 21st annual RBWH Healthcare Symposium</td>
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<td>Alexander Wallan</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<td>Benjamin Rogers</td>
<td>American Society for Microbiology Student and Post-Doctoral Fellow Travel Grant</td>
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<td>Shimadzu Outstanding Young Investigator Award – Ovation 2012</td>
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<tr>
<td>Emma Schleiger</td>
<td>RBWH Postgraduate Scholarship</td>
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<tr>
<td>Hosam Zowawi</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<tr>
<td>Jamie Kubzaovic</td>
<td>Shimadzu Outstanding Young Investigator Award – Ovation 2012</td>
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<tr>
<td>Julie Wexy</td>
<td>Shimadzu Outstanding Young Investigator Award – Ovation 2012</td>
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<tr>
<td>Kerstin Panneke</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<tr>
<td>Nabawi Sheikh</td>
<td>Best Poster Presentation – Clinical Science at the 21st annual RBWH Healthcare Symposium</td>
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<td>Rebecca Johnston</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<tr>
<td>Sophia Van Hess</td>
<td>Siemens Outstanding Student Award – Ovation 2012</td>
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<tr>
<td>Villem Yaska</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<tr>
<td>Wibhuda Karnokrit</td>
<td>Shimadzu New Investigator Development Prize – Ovation 2012</td>
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<tr>
<td>Matthew Roberts</td>
<td>2012 Professor William Egerton Surgical Research Award</td>
</tr>
<tr>
<td></td>
<td>2012 Doctor in Training Research Scholarship</td>
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</tbody>
</table>
Dr Bradley Partridge

Dr Coral Gartner
Invited Speaker: Is hardening occurring in the UK smoking population?. Docherty G., Gartner, C. E. and McNeill A. 15th Annual Scientific Meeting, February, Brisbane, Australia.

Dr Marloes Dekker
Invited Speaker: Australian Diabetes in Pregnancy Society annual scientific meeting, August, Gold Coast, Australia.

Dr Marloes Dekker
Invited Speaker: Australian Diabetes in Pregnancy Society annual scientific meeting, August, Gold Coast, Australia.

Dr Coral Gartner
Invited Speaker: Childhoood exposure to secondhand smoke in Australia: Is the socio-economic gap widening or narrowing? Gartner, Coral E, and Scott, M. 15th World Conference on Tobacco or Health, March, Singapore International Convention and Exhibition Centre.

Dr Coral Gartner

Dr Judith Greer

Dr Andrew Dalley
Invited Speaker: Fractal developmental phenotypes displayed by cancer cell lines in vitro. UQ School of Dentistry Research Day, July, Brisbane, Australia.

Dr Benjamin Rogers
Invited Speaker: Multi-Resistant Bacterial Infection and Medical Tourism, CDC International Conference on Emerging Infectious Diseases, Marsh, GA, USA.

Dr Benjamin Rogers
Invited Speaker: Where have all the antibiotics gone? The rise of multi-resistant Gram-negatives in the Australian community. Royal Australian College of Physicians Future Directions in Health Congress, May, Brisbane, Australia.

Dr Benjamin Rogers
Invited Speaker: Emerging Infections in the Asia Pacific Region: Medical and Leisure Tourism, Antimicrobials 2012, ASA Annual Scientific Meeting, February, Brisbane, Australia.

Dr Erin Conway

Dr Erin Conway
Invited Speaker: Supporting quality patient-centred communication in dementia care: Effect of a communication skills training program for care staff. Research Centre for Clinical and Community Practice dementia-updates seminar, October, Griffith University, Brisbane.

Dr Erin Conway
Invited Speaker: Dementia and Speech Pathology: Diagnosis and Assessment of Communication. Continuing Professional Development workshop for Speech Pathology Australia, October, Queensland Branch.

Dr Erin Conway

Dr Adrian Carter

Dr Adrian Carter
Invited Speakers

A/Professor Camile Farah Invited Speaker: 2nd International Workshop on Immunohistochemistry, February, Gold Coast, Australia.

A/Professor Camile Farah Invited Speaker: OMAA, Oral Medicine Academy of Australasia, 2nd Annual Scientific Meeting, November, Melbourne, Australia.

A/Professor Camile Farah Invited Speaker: EAOM, European Association of Oral Medicine, 11th Biennial Meeting, September, Athens.

A/Professor Camile Farah Invited Speaker: International Quintessence Symposium, October, Sydney, Australia.


Professor Wayne Hall Invited paper: Assessing social impacts of the claim that addiction is a brain disease. March, London School of Hygiene and Tropical Medicine.

Professor Wayne Hall Invited paper: Assessing social impacts of the claim that addiction is a brain disease. March, London School of Hygiene and Tropical Medicine.

Professor Wayne Hall Invited paper: Waste water analyses of illicit drug use in the population: technical and ethical issues. April, National Addiction Centre, Kings College London.

Professor Wayne Hall Invited paper: Waste water analyses of illicit drug use in the population: technical and ethical issues. April, National Addiction Centre, Kings College London.

Professor Wayne Hall Invited Speaker: Possible futures for tobacco control: high tech, low tech and no tech approaches. May, Institute of Public Health, Cambridge University.


Seminars Held at UQCCR 2012

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<tr>
<td>2/2/2012</td>
<td>Professor Matt Cooper</td>
<td>Bacterial Diagnosis and Therapy: Towards Clinical Outcomes</td>
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<tr>
<td>16/2/2012</td>
<td>Dr Trent Woodruff</td>
<td>The Multiple Roles of Complement Anaphylatoxins C3a and C5a in Neurodegeneration and Neurodevelopment</td>
</tr>
<tr>
<td>22/2/2012</td>
<td>Professor Keith Kaye (Special Seminar)</td>
<td>Antibiotic Stewardship and Infection Control Controversies</td>
</tr>
<tr>
<td>23/2/2012</td>
<td>Dr Nicole O’Conner</td>
<td>Redefining the mRNA: mRNA Interactions Using RNaseq</td>
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<tr>
<td>1/3/2012</td>
<td>Dr Jason Roberts</td>
<td>Research To Optimise Antibiotic Dosing For ICU Patients</td>
</tr>
<tr>
<td>8/3/2012</td>
<td>Associate Professor Gerry Chan</td>
<td>Generation of fascicularized one grafts through the use of dynamically cultured autologous primitive stem/progenitor cell-based scaffold constructs.</td>
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<tr>
<td>15/3/2012</td>
<td>Ms Jenny Lin</td>
<td>New-Generation Sequencing Platforms in the BGI and their Use in Medical Research</td>
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<tr>
<td>23/3/2012</td>
<td>Dr Helen Irving Rodgers</td>
<td>The Extracellular Matrix and Fate of Ovarian Follicles</td>
</tr>
<tr>
<td>29/3/2012</td>
<td>Professor Barbara Lingwood</td>
<td>Cardiac Function in the Preterm Neonate</td>
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<tr>
<td>12/4/2012</td>
<td>Dr Paul Gray</td>
<td>Phantom Pain - The Neuropathic Pain of Burn Injury</td>
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<tr>
<td>18/4/2012</td>
<td>Dr Nicole Vincent</td>
<td>Neuroscience and Criminal Responsibility</td>
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<tr>
<td>26/4/2012</td>
<td>Professor Bernard Palitrors and Dr Nicole Bordes</td>
<td>Computing and Visualisation for Research</td>
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<td>3/5/2012</td>
<td>Professor Steve Taylor</td>
<td>A Curious Role for the Complement Factor C1s: a Protectant of Neural Tube Defects Follows Dietary Fructose Deficiency in Mice</td>
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<td>10/5/2012</td>
<td>Dr Keith Ashman</td>
<td>Tales of Quantitative Proteomics</td>
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<td>11/5/2012</td>
<td>Dr Mark Wilke (Special Seminar)</td>
<td>Advanced Imaging In Paediatric Brain Injury</td>
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<td>17/5/2012</td>
<td>Dr James Scott</td>
<td>Does Childhood Trauma Cause Psychosis? A Review Of The Evidence</td>
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<tr>
<td>23/5/2012</td>
<td>Professor Prashaker K Ranjikar (Special Seminar)</td>
<td>Social Transformation Through Improved Research on Nutrition in Mother and Child to Meet Future Global Challenge</td>
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<td>24/5/2012</td>
<td>Associate Professor Emma Duncan</td>
<td>Genetics and Endocrine Diseases - Modern Approaches and Applications</td>
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<td>31/5/2012</td>
<td>Mr Greg Anderson</td>
<td>Systemic Control of Body Iron Metabolism: Lessons from Mice and Men</td>
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<td>7/6/2012</td>
<td>Dr Markus Dunker</td>
<td>What do maternal diet and ageing have in common in the epigenetic regulation of HNF1alpha?</td>
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<td>14/6/2012</td>
<td>Dr Jerome (Jim) Coward</td>
<td>Interleukin-6 As A Therapeutic Target in Ovarian Cancer</td>
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<td>21/6/2012</td>
<td>Associate Professor Michael Breakspear</td>
<td>“Obadiah Noise” In Neonatal Cortex After Birth Hypoxia</td>
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<td>26/6/2012</td>
<td>Professor Claire Roberts</td>
<td>Predicting Pregnancy Complications in Women Pregnant for the First Time: Can it be Done?</td>
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<tr>
<td>5/7/2012</td>
<td>Ms Shani Drog (Special Seminar)</td>
<td>My Role In Your Research</td>
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<tr>
<td>12/7/2012</td>
<td>Dr Ed Helferan</td>
<td>Madness and Musical Chairs: The Mentally Ill in Custody</td>
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<td>19/7/2012</td>
<td>Mr Patrick Darley</td>
<td>Roche Diagnostics Presentation</td>
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<td>24/7/2012</td>
<td>Professor Geoff Klein (Special Seminar)</td>
<td>Adjvant Therapies to Enhance Cortical Plasticity and Recovery From Stroke</td>
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<tr>
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<td>26/7/2012</td>
<td>Dr Suayn Chong</td>
<td>Epigenetics and a Mouse Model of Prenatal Alcohol Exposure</td>
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<td>27/7/2012</td>
<td>Mr Davis Brimer, Bio Dent (Special Seminar)</td>
<td>How Reference Point Indentation will change the field of Bone Research</td>
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<tr>
<td>16/9/2012</td>
<td>Dr Cathrine Fontal</td>
<td>Hypoxic Regulation of the Hematopoietic Stem Cell Niche</td>
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<td>23/9/2012</td>
<td>Associate Professor Damy Eyles</td>
<td>Modelling the Developmental Neurobiology of Schizophrenia: The Dopamine Hypothesis Meets the Neurodevelopmental Hypothesis</td>
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<td>30/9/2012</td>
<td>Dr Kathryn Stacey</td>
<td>Inflammation Function in a Mouse Model of Lupus</td>
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<td>6/10/2012</td>
<td>Associate Professor Ali Naresh</td>
<td>Building the Roof of Mouth: TGF-β Signalling in Palate Development</td>
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<td>13/9/2012</td>
<td>Professor Gunter Schuerman</td>
<td>Neurobehavioral Analysis of Reinforcement and its Relevance for Alcohol Abuse: Results from the MAGEN Study</td>
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<td>27/9/2012</td>
<td>Professor Wayne Hall</td>
<td>Ethical and Social Implications of Dopamine-Induced Compulsive Behaviour and Wastewater Analyses of Blood Drug Use in the Population</td>
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<tr>
<td>8/10/2012</td>
<td>Dr Philip Hugenholtz</td>
<td>Culture-Independent Microbial Ecology and the Human Microbiome</td>
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<tr>
<td>18/10/2012</td>
<td>Professor Kerry Atkinson</td>
<td>The Biology and Clinical Applications of Mesenchymal Stromal Cells from Human Term Gestational Products</td>
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<tr>
<td>25/10/2012</td>
<td>Professor John Iredell</td>
<td>Clinical Microbiology</td>
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<td>1/11/2012</td>
<td>Dr Jun Yan</td>
<td>The -572 Promoter Region of the Interleukin-6 Gene May Play a Role in Risk of Disease Progression in Multiple Sclerosis</td>
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<td>8/11/2012</td>
<td>Associate Professor Jayne Luckie</td>
<td>“Up the Duff” Down Under: Reducing Unintended Pregnancy in Australia</td>
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<tr>
<td>15/11/2012</td>
<td>Professor Mark Schembri</td>
<td>Uropathogenic E. coli: Adhesins, Virulence and Biofilms</td>
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<tr>
<td>22/11/2012</td>
<td>Professor Helen Chenery</td>
<td>Deep Brain Stimulation in the Asia-Pacific: Emerging Futures for Interdisciplinary Research</td>
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<tr>
<td>29/11/2012</td>
<td>Dr Brad Partidge</td>
<td>Dazed and Confused: Ethical Issues in the Management of Concussion in Football</td>
</tr>
<tr>
<td>4/10/2012</td>
<td>Dr Philip Hugenholtz</td>
<td>Culture-Independent Microbial Ecology and the Human Microbiome</td>
</tr>
<tr>
<td>16/10/2012</td>
<td>Professor Kerry Atkinson</td>
<td>The Biology and Clinical Applications of Mesenchymal Stromal Cells from Human Term Gestational Products</td>
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<td>29/11/2012</td>
<td>Dr Brad Partidge</td>
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**APPENDIX SIX**

**RESEARCH HIGHER DEGREE STUDENTS 2012**

**Completions in 2012**

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<tr>
<th>Student</th>
<th>Degree</th>
<th>Project</th>
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<tr>
<td>Baumann, Fumio</td>
<td>PhD</td>
<td>Detection of objective markers of disease progression in patients with Motor Neuron Disease (MND)</td>
<td>Professor P McCombe, Dr R Henderson</td>
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<td>Birt, John</td>
<td>PhD</td>
<td>Learning and memory in the cerebellum</td>
<td>Dr M Bondingham, Dr J Power, Professor M Lavin</td>
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<tr>
<td>Campbell, Peter</td>
<td>MPhil</td>
<td>Clinical disagreement: its influence on the practice of urology</td>
<td>Dr P McGuff, Professor F Gardiner</td>
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<td>Carly, Michelle</td>
<td>PhD</td>
<td>Neuromatrical changes under-printing functional deficits after hypoxic-ischaemic injury in the pre-term brain</td>
<td>Dr K Buller, Dr T Bjorkman</td>
</tr>
<tr>
<td>Coelho Da Silva, Daniel</td>
<td>PhD</td>
<td>Prospective study of the emergency of syndromal and subsyndromal anxiety and depression during cognitive decline</td>
<td>Professor G Byrne, Professor N Pachana</td>
</tr>
<tr>
<td>Giarduzzo, Troy</td>
<td>MPhil</td>
<td>Laser Robotic-Assisted Laparoscopic Radical Prostatectomy</td>
<td>Professor F Gardiner, Dr J Yearly</td>
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<tr>
<td>Gray, Paul</td>
<td>PhD</td>
<td>Neuropathic pain following burn injury: An examination of mechanism and treatment in the pre-clinical model and in the clinical setting</td>
<td>Professor T Cramond, Professor J Lipman, Professor M Smith, Dr P Cabot</td>
</tr>
<tr>
<td>Hall, Leanne</td>
<td>PhD</td>
<td>The contribution of dopamine to the regulation of oral, limb and trunk control - system or functional specific effects?</td>
<td>Professor P Hodges, Associate Professor S Brewer</td>
</tr>
<tr>
<td>Heath, Sheree</td>
<td>PhD</td>
<td>Neurocognitive substrates of naming facilitation in aphasia</td>
<td>Associate Professor David Copland, Dr A Angerv, Dr K McMahon</td>
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<tr>
<td>Ireland, Penelope</td>
<td>PhD</td>
<td>A population-based analysis of development in young Australian children with Achondroplasia</td>
<td>Dr L Johnson, Dr A Zankl, Dr J McGill</td>
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<tr>
<td>Jones, Amanda</td>
<td>PhD</td>
<td>Autism spectrum in schizophrenia</td>
<td>Dr J Greer, Professor M Pender, Associate Professor B Movasiri</td>
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<tr>
<td>Khil, Mohamed</td>
<td>PhD</td>
<td>Multi-channel time-frequency analysis for EEG neonatal seizure characterization</td>
<td>Professor P Colditz, Dr A Ghasem, Professor B Boashash</td>
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<tr>
<td>Lim, Yi Ooi (Ermi)</td>
<td>PhD</td>
<td>Targeting gliomas ES cells as a potential therapy for this tumor</td>
<td>Professor M Lavin, Dr R Woods</td>
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<tr>
<td>Mok, Kwan</td>
<td>PhD</td>
<td>Evaluation of a problem-based learning curriculum in speech and language sciences: Student perceptions and critical thinking</td>
<td>Professor B Dodd, Professor T Whitehall</td>
</tr>
<tr>
<td>Muller, Diane</td>
<td>PhD</td>
<td>Neuropsychological and Neuropsychological Studies of the Central Nervous System of mice with Abnormal Experimental Autoimmune Encephalomyelitis</td>
<td>Dr J Greer, Professor M Pender</td>
</tr>
<tr>
<td>Nguyen, Phan</td>
<td>PhD</td>
<td>Optical biopsy in lung medicine broncoscopy</td>
<td>Dr J D Feil, Associate Professor C Farah, Dr I Masters</td>
</tr>
<tr>
<td>Patel, Bhavik</td>
<td>MPhil</td>
<td>Infections in hospitalised burns patients</td>
<td>Professor D Paterson, Professor J Lipman, Dr J Paratz, Dr J Roberts</td>
</tr>
<tr>
<td>Patel, Jatin</td>
<td>PhD</td>
<td>Thyroid hormone transport in placenta</td>
<td>Dr KERRY Richard, Professor N FLASK, Dr Nathan Subramaniam</td>
</tr>
<tr>
<td>Schmidt, Annika</td>
<td>PhD</td>
<td>Proximal and central pain mechanisms involved in carpal tunnel syndrome</td>
<td>Dr M Coppel, Professor E McLaughlan, Professor P Hodges, Dr M Ruitenberg</td>
</tr>
<tr>
<td>Spiearing, Natalie</td>
<td>PhD</td>
<td>A comparison of personal injury motor vehicle insurance schemes in Australia and their impact on health outcomes</td>
<td>Professor L Connolly, Professor P Hodges</td>
</tr>
<tr>
<td>Stubbe, Narelle</td>
<td>PhD</td>
<td>Episodic muscular pain and its relationship with back pain in the horse</td>
<td>Dr C McGowan, Professor P Hodges</td>
</tr>
</tbody>
</table>

UQCCR supervisors are shown in bold.
## Enrolments in 2012

<table>
<thead>
<tr>
<th>Student</th>
<th>Degree</th>
<th>Project Title</th>
<th>Supervisors</th>
<th>Commence Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ainslie, Caroline</td>
<td>PhD</td>
<td>The CMAP scan in Motor Neuron Disease and Peripheral Neuropathy as a marker of early disease and disease progression</td>
<td>Professor P McCombe, Professor R Henderson</td>
<td>21/03/2012</td>
</tr>
<tr>
<td>Allen, Kristine</td>
<td>MPhil</td>
<td>Barriers to early detection of oral cancer: perceptions and experience of patients and healthcare providers</td>
<td>Associate Professor C Farah, Dr P Ford</td>
<td>01/05/2012</td>
</tr>
<tr>
<td>Akrawi, Ashraf</td>
<td>PhD</td>
<td>The use of magnetic resonance imaging (MRI) to measure the rate of loss of upper motor neurons in amyotrophic lateral sclerosis</td>
<td>Professor P McCombe</td>
<td>01/04/2012</td>
</tr>
<tr>
<td>Babbitt, Edra</td>
<td>PhD</td>
<td>Investigations into Intensive Comprehensive Aphasia Programs (ICAPs)</td>
<td>Professor L Wormald, Professor L Chenery, Associate Professor D Copland</td>
<td>01/07/2012</td>
</tr>
<tr>
<td>Bell, Jack</td>
<td>PhD</td>
<td>Identifying and overcoming barriers to the appropriate nutritional support of hip fracture patients</td>
<td>Associate Professor J Bauer, Professor S Capra</td>
<td>24/02/2012</td>
</tr>
<tr>
<td>Betoul, Baz</td>
<td>PhD</td>
<td>Sequencing based identification of skeletal dysplasia genes</td>
<td>Professor M Brown, Associate Professor E Duncan, Professor B Gardner</td>
<td>17/07/2012</td>
</tr>
<tr>
<td>Bhala, Nirv</td>
<td>MPhil</td>
<td>Efficacy of VELacope in clinical practice and a histopathological correlation with tichenos lesions</td>
<td>Associate Professor C Farah, Dr M Malats</td>
<td>01/05/2012</td>
</tr>
<tr>
<td>Byrom, Lisa</td>
<td>MPhil</td>
<td>Influence of pregnancy on prognosis of melanoma</td>
<td>Associate Professor K Khosrotehrani, Professor A Green</td>
<td>15/03/2012</td>
</tr>
<tr>
<td>Caesar, Rebecca</td>
<td>PhD</td>
<td>Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants</td>
<td>Professor R Boyd, Professor P Colditz</td>
<td>13/04/2012</td>
</tr>
<tr>
<td>Curmi, Sean</td>
<td>MPhil</td>
<td>Alcohol-containing mouthwashes: Cellular and molecular changes</td>
<td>Associate Professor C Farah, Dr A Dalley</td>
<td>01/05/2012</td>
</tr>
<tr>
<td>Dignam, Jade</td>
<td>PhD</td>
<td>Investigating the effect of intensity of aphasia therapy on language outcomes in people with aphasia.</td>
<td>Associate Professor D Copland, Dr A Rodriguez</td>
<td>20/02/2012</td>
</tr>
<tr>
<td>Dingess, Steven</td>
<td>PhD</td>
<td>Generation of induced pluripotent stem cells from alexia-telangiectasia patients</td>
<td>Professor M Lavin</td>
<td>16/04/2012</td>
</tr>
<tr>
<td>Economou, Caleb</td>
<td>PhD</td>
<td>The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy</td>
<td>Dr J Roberts, Dr B Richards, Professor L Lipman</td>
<td>28/11/2012</td>
</tr>
<tr>
<td>Etiqued Cancon, Edith</td>
<td>MPhil</td>
<td>Changes in cortex representation of multifidus provoked by different types of motor training of the lumbar paraspinal muscles</td>
<td>Professor P Hodge, Dr S Schubrun</td>
<td>18/07/2012</td>
</tr>
<tr>
<td>Enkline, Holly</td>
<td>PhD</td>
<td>The epidemiology of conduct disorder and implications for interventions</td>
<td>Dr J Scott, Professor H Whiteard</td>
<td>24/05/2012</td>
</tr>
<tr>
<td>George, Joanna</td>
<td>PhD</td>
<td>Prediction of motor outcomes based on early brain structure</td>
<td>Professor R Boyd, Professor P Colditz, Associate Professor S Rose</td>
<td>22/06/2012</td>
</tr>
<tr>
<td>Hale, Kell</td>
<td>PhD</td>
<td>Novel delições interventions: can they deliver better outcomes when compared to conventional approaches in community-dwelling adults</td>
<td>Professor S Capra, Associate Professor J Bauer</td>
<td>26/03/2012</td>
</tr>
<tr>
<td>Iyer, Kirtik</td>
<td>PhD</td>
<td>EEG signatures of recovery from post-natal hypoxia</td>
<td>Associate Professor M Breakspear, Dr S Vanhatalo, Dr S Finnigan</td>
<td>26/03/2012</td>
</tr>
<tr>
<td>Johnson, Stephanie</td>
<td>PhD</td>
<td>Evaluating the efficacy of nest generation DNA sequencing in the diagnosis of disorders of beta cell function</td>
<td>Professor E Duncan, Dr L Cornell, Professor D Verker, Dr M Harris</td>
<td>01/02/2012</td>
</tr>
<tr>
<td>Kulisovic, Jamie Rose</td>
<td>PhD</td>
<td>Investigating the role of E-cadherin in breast cancer development and progression to metastasis</td>
<td>Dr P Simpson, Dr G Chenevix-Trench, Professor S Lakhani, Dr A Reed</td>
<td>07/02/2012</td>
</tr>
<tr>
<td>Lalla, Vastha</td>
<td>MPhil</td>
<td>A clinical trial of the Idefiat using conventional white light examination and VELacope as controls and use of the Idefiat in a General Dental Practice setting</td>
<td>Associate Professor C Farah, Dr M Malats</td>
<td>01/05/2012</td>
</tr>
<tr>
<td>Layeghy, Sarmak</td>
<td>PhD</td>
<td>Fetal movement detection and classification</td>
<td>Professor P Colditz, Professor B Boashash</td>
<td>26/03/2012</td>
</tr>
</tbody>
</table>

## Student Degree Project Title Supervisors Commence Date

| Marquessa, John  | PhD    | A longitudinal molecular epidemiological study to investigate changes in prevalence of asymptomatic Clostridium difficile carriage in hospital patients over three years | Professor A Clements, Dr L Yalcin, Professor D Paterson, Professor T Riley | 27/02/2012 |
| Matsukai, Kiyotane | MPhil  | Periconception weight loss: what are the affects on the HPA axis in the infant? | Professor L Callaway, Dr M Dekker | 02/10/2012 |
| Mornelli, Kylee   | PhD    | A disease of the brain: How do neurobiological explanations of addiction influence the attitudes and behaviours of smokers? | Professor W Hall, Dr A Carter, Dr D Gartner | 12/03/2012 |
| Northwood, Komme  | PhD    | Investigation of genetic and epigenetic regulation of non-coding RNAs in metastatic breast cancer | Professor M Brown, Professor S Lakhani | 11/07/2012 |
| Quak, Hazel       | PhD    | Characterisation of novel pathways involved in the cellular responses to cytotoxic DNA | Dr T Roberts, Professor M Levin | 13/02/2012 |
| Raghavendra, Ashwani | PhD | Studying mammary epithelial lineages differentiation and breast cancer predisposition using inducible pluripotent stem cell technology | Professor S Lakhani, Dr G Chenevix-Trench, Dr J Saumus, Ms C Smart | 05/11/2012 |
| Sahama, Ishani    | PhD    | Investigating connectivity and neuroinflammation within cortico-reticular network in alzheimers-related | Associate Professor S Rose, Professor M Levin | 26/03/2012 |
| Sardessi, Varla    | PhD    | Comparison of the differentiation potential of primary and pluripotent stem cell-derived mesenchymal stem cells in vitro and in vivo | Professor S Fisk, Dr R Polekanos | 30/07/2012 |
| Scheck, Simon     | PhD    | Motor, sensory and visual brain networks in children with unilateral Cerebral Palsy | Associate Professor S Rose, Associate Professor R Boyd | 13/02/2012 |
| Schlesier, Emma   | PhD    | Anomalating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals | Dr S Finnigan | 03/04/2012 |
| Stanoe, Aleksandra | PhD | Mothering style and its association with delivery outcomes | Dr F Bagossian, Dr M Pritchard, Dr A Wiltowksi | 02/10/2012 |
| Thomas, Georgie   | PhD    | Pre-surgical mapping of language in patients with brain tumours. | Associate Professor D Copland, Mrs J Finch | 12/03/2012 |
| Tiao, Henry       | MPhil  | Unwinding plasticity of sensorimotor pathways of the basal nuclei in children with cerebral palsy. | Associate Professor S Rose, Professor M Levin | 08/01/2012 |
| Vu, An            | MPhil  | Idefiat: a retrospective diagnostic criteria | Associate Professor C Farah, Dr M Malats | 01/05/2012 |
| Wallen, Alexander | PhD    | Genome and plasmid characteristics of NDM-1 and OXA181 producing Enterobacteriaceae | Dr H Sidjabat, Professor D Paterson | 13/03/2012 |
| Wright, Amalakeen  | MPhil  | Mathematical models to predict recurrence and death in high-risk advanced melanomas | Associate Professor K Khosrotehrani, Professor A Green | 22/05/2012 |

## Ongoing Students

| Student Degree Project Title Supervisors Commence Date |
|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Abdul, Karen PhD Better practice in food and nutrition services menu planning and design to deliver optimal nutrition to residential aged care | Dr O Right, Professor S Capra | 01/05/2012 |
| Abdul Majed, Ahmad PhD Alternatives in Game Expression during the Early Stages of Oral Carcinogenesis | Associate Professor C Farah, Dr A Dalley | 01/05/2012 |
| Adam, Syamhan PhD Improving Antibiotic Use in Critically Ill and Immunocompromised patients | Professor S Lakhani, Dr D Chenevix-Trench, Dr J Saumus, Ms C Smart | 05/11/2012 |
| Ahmad, Nasim PhD Inulin requirements in pregnant women with type 1 diabetes mellitus during late pregnancy and the peripartum period | Professor L Callaway, Dr D Duncan | 26/03/2012 |
| Awadby, Doreen PhD Neuroprotection and Neuroreceptor Ontogeny in the Developing Brain | Professor P Colditz, Dr P Doshi, Dr K Buller | 26/03/2012 |
| Barrett, Helen PhD Maternal lipids in pregnancy | Professor L Callaway, Dr M Dekker, Dr M McIntyre | 26/03/2012 |
| Beasley, Shannon PhD Detection of objective markers of disease progression in patients with Motor Neuron Disease (MND) | Dr J Greer, Professor D Pow, Professor M Pender | 26/03/2012 |
UQCCR is actively involved in Investigator driven Clinical research. In 2012 we hosted:

**Clinical Trial**  
*Randomised Study of Ribociclib 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. Recruitment began October 2010 to date a total number of 218 patients have been Randomised. The study will continue into 2013.

*4 Double Blind, Placebo-controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Receiving Dexamethasone for bone loss due to Androgen-Deprivation Therapy*: Recruitment began 2009 study to continue in 2013.

*Navis Patients with Progressive Metastatic Prostate Cancer who have failed Androgen Deprivation therapy*: Recruitment began 2011. Two patients successfully randomised, recruitment closed and study completed mid 2012.

*Early Detection Study: Developing a non-invasive test for Prostate Cancer detection*: Researchers have employed PCR, ELISA, MALDI-TOF and metabolomic spectroscopy to discriminate cancer from non-cancer. Investigator driven long term study.

*“A Multinational, Multicenter, Randomized, Double-Blind, parallel-group, Placebo-controlled study of the effect on Cognitive performance, Safety, and Tolerability of SAR101984 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”*

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. Behavioral methods, functional MRI and event-related EEG will be used to investigate measures of word learning success and neural correlates of word learning modulated by levodopa. Recruitment began September 2011 and has continued throughout 2012. Participants recruited: 41.


*Neural basis of cognitive deficits in Parkinson’s disease*: This project uses functional brain imaging and end to examine the neural mechanisms underlying cognitive deficits in Parkinson’s (as potential markers of dementia and mood disorders) and also examines the influence of deep brain stimulation and dopamine on cognition in this population. Recruitment began 2011. Number recruited: 31.
Clinical Trial

Perspectives and experiences of Parkinson's disease patients with drug-induced impulse control disorders: A qualitative study. Investigating the phenomenology, and ethical implications of Impulse Control Disorders and Dopamine Dysregulation Syndrome in PD. Recruitment began January 2012 and will continue in 2013. Number recruited: 11.

Early intervention centre on infant massage performed by the mother in preterm infants: effects on re-development at the clinical, electrophysiological and neurodevelopmental level.

Professor Paul Colditz, Dr Simon Firmin, Associate Professor Stephen Rose, Dr Andrea Guzzetta, Dr M Giulia D Acunto, Nazen Ngenda, Sonia Sam, Dr Koa Withington, Janine Orsborne and Penny Lowe.

Oral Cancer Research: Looking at ways to diagnose and treat oral cancer at its earliest stages.

Clinical Trials looking at the neurophysiological and biometric methods in the control of movement and stability of the spine and how this changes when people have pain.

This HELP Study is a Randomized 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 children aged between 1 and 6 years with feeding difficulties, including children with autism, children with complex medical histories, and children with no history but who are fussy eaters. Recruitment and intervention began September 2011 and has continued throughout 2012. The study will continue in 2013. Number recruited: 100.

Predictors of aphasia recovery post-stroke. The primary aim of the proposed research is to determine whether measures of (a) brain structure, (b) brain connectivity, and (c) language related brain activity taken at 2-6 weeks post stroke predict aphasia recovery at 6 months. Stroke patients exhibiting language impairment at 2-6 weeks post stroke will undertake an MRI brain scan and a number of language tests. These patients will then undergo the same brain scan and language testing at 6 months post-stroke. Recruitment: 53 subjects.

项目目标“生活质量与人的心理社区。测试沟通技能培训课程对专业社区包容性工作的影响”。Recruitment began August 2011 and has continued throughout 2012. The study will continue in 2013. Participants recruited: 40 care staff; 26 people with dementia and family carer dyads.

Chief Investigator's

Dr Adrian Carter, Dr Nadieka Desanayaka, Professor Peter Silburn, A/Professor John O’Sullivan, Professor Wayne Hall, Student: Timothy Leschlie (Vacation scholar)

Research Assistant: Peter Bell.

Associate Professor Camilla Fanah.

Centre Director

Professor Murray Mitchell

Theme Leaders

Professor Helen Chenery
Professor Paul Colditz
Professor Robert ‘Frank’ Gardner
Professor Suni/Laktah
Professor Pamela McComb
Professor David Paterson
Professor Gregory Rose

Visiting Academics

Professor George Boc-Gharos
Professor Barbara Dodd
Professor Jeffrey Lipman
Professor Eugene Lubahn
Professor Jesus Rodriguez-Baro
Dr Colin Adams
Dr David Alcorn
Dr Zornik Arancardt-Baronu
Dr Tomas Angerth
Dr Elka Bhutada
Dr Genevieve Bimny
Dr Jerry Chan
Dr Mahesh Chikkani
Dr Emma Duncan
Dr Ryoan Fang
Dr Yoshiro Hayashi
Dr Thidarat Nirtalut
Dr Kate Sandor
Dr Sampsa Vehitalo
Ms Marycorn Matt

Co-investigator: Prof Helen Chenery

Researchers

Professor Bouakim Bisahash
Professor Gerard Byrne
Professor Sandra Capra
Professor Susanna Chambers
Professor Nicholas Fisk
Professor Frank Bernard Gannon
Professor Wayne Hall
Professor Andrea Kaczuil
Professor Peter Silburn
Professor Luis Sobrena
Professor Philip Walker
Professor Andreas Zanol
Associate Professor health Ashman
Associate Professor David Copland
Associate Professor Terry Crone
Associate Professor Chris So
Associate Professor Camilla Fanah
Associate Professor Nanak Khoostehfani
Associate Professor Jayne Lucke
Associate Professor Stephen Rose
Dr Mihay Avend

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Dr Rosemary Baker
Dr Nigel Barnett
Dr Nigel Bennett
Dr Tracy Blympton
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Dr Hui-Wei Chan
Dr Vincent Chen
Dr Yin-Shun Chen
Dr MelissaConnell
Dr Erinn Conway
Dr Andrew Dalby
Dr David Danon
Dr Marissa Daskar
Dr Nadieka Desanayaka
Dr Yvonne Eby
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Dr Pauline Ford
Dr Yari Gaid
Dr Coral Gartner
Dr Judith Grear
Dr Janet Hamil
Dr Janelle Hancock
Dr Danielle Herbert
Dr Julia Hocking
Dr Allison Holm
Dr Charlotte Huber
Dr Aven Lee
Dr Barbara Lingewood
Dr Anna MacDonald
Dr Teneen Makeby
Dr Motofua Mesbah
Dr Carla Mouk
Dr Susan Millard
Dr Liah Moseley-Leaster
Dr Rachael Nowak
Dr Bradley Partridge
Dr Rebecca Pelikanos
Dr Allison Pettit
Dr Margo Pitchard
Dr Amy Reid
Dr Lisa-Jane Raggatt
Dr Tara Roberts
Dr Mathieu Rodero
Dr Amy Rodrigues
Dr Edelina Roy
Dr Jennifer Ryan
Dr Carlos Salimino
Dr Jodi Sausus
Dr James Scott
Dr Hanna Sidjabat
Dr Thidarat Netikul
Dr Xiyong Fan
Dr Emma Duncan

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Gillian Barchner
Amanda Barnett
Sharni Blackley
Christopher Bell
Stefanie Bell
Leila Brooks
Tiffany Brown
Marion Buk
Susan Callan
Clament Choy
Peter Churness
Sonia Daim
Susan Deon
Patricia Dost
Michael Duhig
Ivana Dzialic
Brenton Edy
Rebecca Ellis
Athina Eu
Kate Gavrouoa
Sally Havens
Samantha Hodgson
Donna Hosy
Halely Inghis
Lynnette Isabel
Gillian Jajger
Jenni Javainthan
Jessie Jedusor
Rebecca Jorgensen
Simprent Kaur
Loa Kasane
Mohamed Khalil
Mesoch Kim
Annalisa Khoo
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Samiu Leang
Lucie Leveque
Peter Lynch
Catherine Mak
MYNa Maraisseran
Rebecca Matthews
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Rotimi Meddows
Stephanie Miller
Nicki Minney
Rohan Gilt
Bruce Kim
Deon Knight
Harvey Kramer
Linda McKinnon
Shannon O’Brien
Julie-Anne Parson
Kate Sullivan

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Borjana Simonovic
On Song
Michael Staunton
Sandra Stan
Lyndale Stentouse
Linda Teng
Janette Thomas
Kanchan Vassani
Nicholas Ward
Timothy Whyte
Wan Hooi Yam
Sarah Yeats
Jordan Young

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Shari Bowker
Judith Henschell

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Luke Davidson
Lisa Dingwall
Shan Dog
Jessica Edridge
Nicola Ellen
Rohan Gilt
Bruce Kim
Deon Knight
Harvey Kramer
Linda McKinnon
Shannon O’Brien
Julie-Anne Parson
Kate Sullivan

Properties & Facilities

Peter Bridges
Ray Celler
All Fruit

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APPENDICES
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