



UQCCR

UNIVERSITY OF QUEENSLAND CENTRE FOR CLINICAL RESEARCH
2012 ANNUAL REPORT



From healthy beginnings,

we learn and grow.





Slower than we want, faster than we realise, a life to cherish.

THE UNIVERSITY OF QUEENSLAND CENTRE
FOR CLINICAL RESEARCH

Thank you to all academic and
professional staff who have contributed
to the production of the UQCCR 2012
Annual Report.

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MESSAGE FROM *THE DIRECTOR*

Transforming lives throughout *the human lifecycle*

BACKGROUND: Professor Murray Mitchell

PROFESSOR MURRAY D. MITCHELL

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 healthier 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 a more 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 this direction for the Centre, total funding from external sources (other than NHMRC and ARC) increased by over 170% to around \$12.3m, making up the lion's share (64%) of our funding achievements for the year.

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).

The new multimillion dollar Asia-Pacific Centre for Neuromodulation (APCN) was launched in 2012, in strengthening our partnership with St Andrews Hospital and the UQ Faculty of Health Science (UQ), with UQCCR Professor Helen Chenery appointed as Director. Helen is a leading researcher in the area of the neurobiology 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).

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 1,542 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-orientated research.



HIGHLIGHTS *FROM 2012*

CELEBRATING ANOTHER YEAR
OF ACCOMPLISHMENTS



Ovation 2012



2012 Butterfly Ball



Professor Sunil Lakhani



Professor Peter Silburn presenting at launch of APCN



TIA – QLD Node Launch

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 Davina Smith (Nine Network Australia), a captivated audience enjoyed an evening of entertainment from comedy magician Matt Hollywood, the Nunukul Yuggera Aboriginal Dancers and the Radio Club Band.

HOT PUBLICATIONS

Many of our UQCCR researchers had their work appear in prestigious journals in 2012. Some notable publications that appeared in the *Lancet* include 'A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990-2010: a systematic analysis for the Global Burden of Disease Study 2010' and 'Extent of illicit drug use and dependence, and their contribution to the global burden of disease', both from Professor Wayne Hall, and 'Dissemination of NDM-1 reply' from Professor Timothy Walsh.

Dr Emma Duncan's 'New genomic loci for bone mineral density, osteoporosis and risk of fracture' 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 Adeline 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 ground-breaking 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 40).

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 based in South East Queensland who are members of the TIA – QLD Node. This state-based model of the future national TIA entity will provide a testing model to accelerate the movement of inventions by Australian researchers from the laboratory, through preclinical trials, clinical development and produce 'reduced risk technologies' that will be highly attractive for investors to commercialise into therapeutic products.

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 HIRF (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 SGI SUMMIT

Leaders in the field of prematurity and stillbirth joined students, academics and health professionals, with an interest in women's reproductive health, for the 2012 International Society for Gynaecologic Investigation (SGI) Summit held at the Brisbane Convention & Exhibition Centre from 3–5 August 2012. Hosted by UQCCR, with some events held in the Centre's Auditorium, the SGI Summit was an international affair featuring speakers from Canada, United States, United Kingdom, Australia and New Zealand including a plenary from Professor Sir Peter Gluckman FRS, Chief Science Advisor to the Prime Minister of New Zealand.

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 magical quick-change duo Soul Mystique, the live sounds of band Rush and a three-course meal served up by the award-winning chefs at the Sofitel.



AWARDS *FROM 2012*

RECOGNISING EXCELLENCE
IN THE FIELD OF CLINICAL RESEARCH

FIGHTING *PERINATAL DISEASE*

A lifetime of distinguished achievement

PROFESSOR PAUL COLDITZ

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.

BACKGROUND: Professor Paul Colditz

AT LEAST 20 PERCENT
OF AUSTRALIA'S KNOWN PREGNANCIES
END IN MISCARRIAGE.

20%



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*



DR CORAL GARTNER

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.

"It 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."



A HEALTHIER *START*

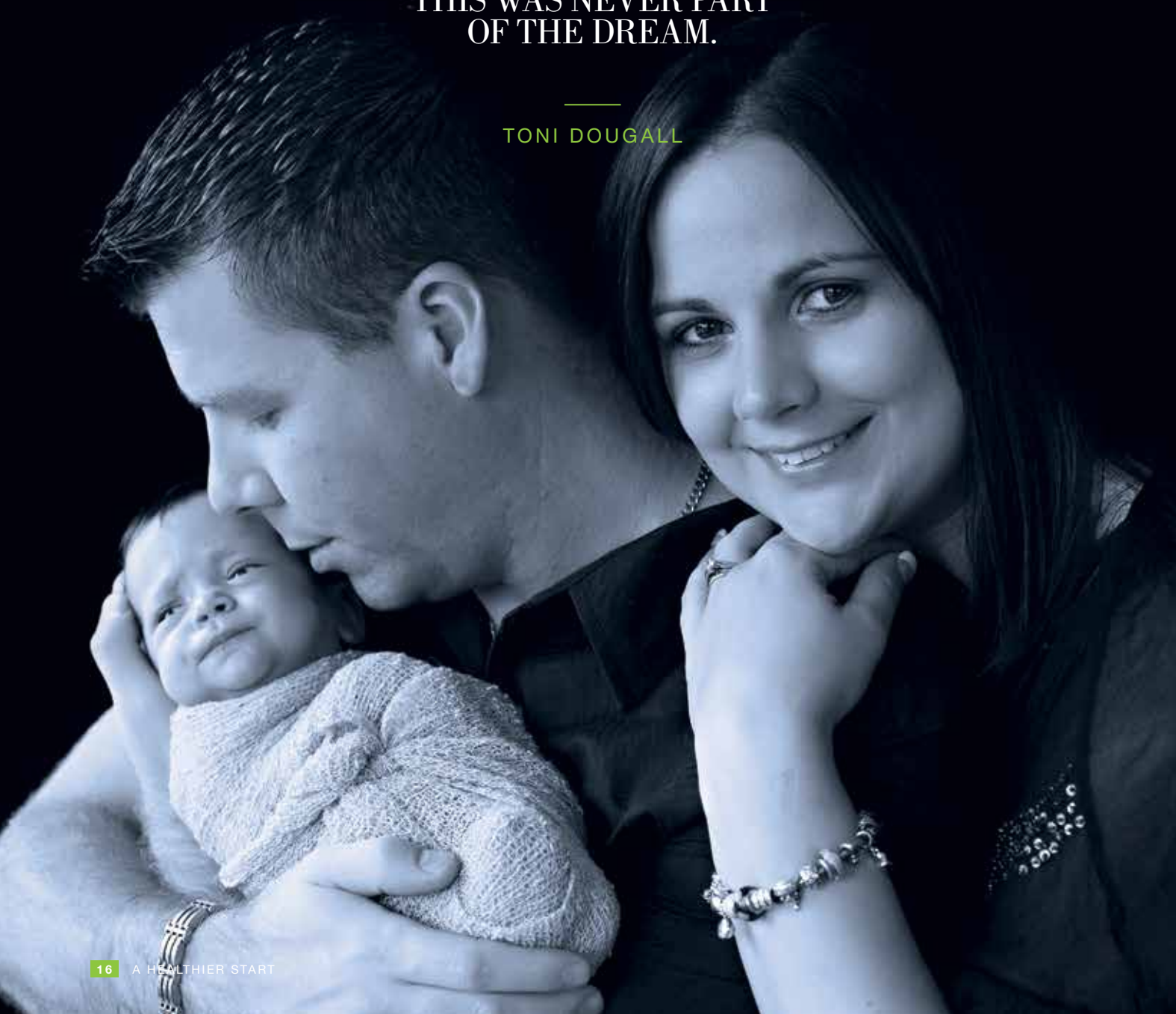
—
BABIES AND CHILDREN

THE POWER OF TOUCH

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 preeclampsia – 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 isolate,” 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 Maris Scientific Institute, University of Pisa), Dr Giulia D’Acunto (Stella Maris Scientific Institute, University of Pisa), Professor Paul Colditz, Professor Roslyn Boyd (School of Medicine, UQ), Naoni Ngenda (RBWH), Sonia Sam, Dr Simon Finnigan, Associate Professor Stephen Rose (CSIRO).
Email: p.colditz@uq.edu.au

LEFT: Toni Dougall with husband Aaron and daughter Olivia

BELOW: Baby wearing EEG cap for infant massage therapy study





6,000

APPROXIMATELY 2% OF BABIES IN AUSTRALIA
ARE BORN VERY PRETERM – THAT'S 6,000
BABIES PER YEAR IN THIS COUNTRY ALONE.

BACKGROUND: Very preterm infant, Olivia Dougall

PREM TRIPLE P *CLINICAL TRIAL*

Positive parenting for preterm infants

PROFESSOR PAUL COLDITZ

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.

"We have taken an evidence-based parenting program, which has demonstrated powerful effects on parenting and child behaviour worldwide and is already funded in the community throughout Australia, and used it to develop Prem Baby Triple P – a tailored parenting program that targets the specific needs of the very preterm infant."



Professor Paul Colditz

Clinicians are conducting a pragmatic RCT (randomised controlled trial) of very preterm infants to determine whether Prem Baby Triple P, as opposed to routine care, optimises child behaviour, cognitive development and family functioning at 24 months corrected age.

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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LIVING WITH ATAXIA

Clinical collaborations to *find a cure*

FRIEDREICH ATAXIA AFFECTS
1 IN 50,000 PEOPLE.
ATAXIA-TELANGIECTASIA
AFFECTS BETWEEN 1 IN 40,000
TO 1 IN 100,000 PEOPLE.

1 IN 50,000

BACKGROUND: Professor Martin Lavin

PROFESSOR MARTIN LAVIN

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.

International leader in the field of A-T research for more than 20 years, Professor Lavin said the multidisciplinary Friedreich Ataxia Clinic and Ataxia-telangiectasia Clinic – both located at UQCCR and a collaboration between the Royal Brisbane and Women's Hospital, Royal Children's Hospital and researchers from the Queensland Institute of Medical Research – brings together a range of specialists with the aim of providing diagnosis, surveillance and links to research and treatment.

"The combined expertise in A-T cell and molecular biology, stem cell technology and the operation of an A-T clinic at UQCCR provides an excellent platform to enhance our understanding of the defect gene in A-T and, eventually, translate that into better outcomes for patients with A-T and related disorders, like FA," said Professor Lavin.

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



Mike Dwyer with daughters Samantha and Jamie-Lee



KEEPING *YOURSELF WELL*

—
ADULTHOOD

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.

10%

BACKGROUND: Dr James Scott

HALLUCINATIONS *IN ADOLESCENCE*

Passing phase or prediction of psychosis?

DR JAMES SCOTT

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.

“Our study will investigate the broad outcomes of hallucinations at 30-years of age for participants in the MUSP birth cohort who self-reported auditory and visual hallucinations at 14- and/or 21-years of age.”

“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*

CUPID points arrow at contraception

ASSOCIATE PROFESSOR JAYNE LUCKE

IT IS ESTIMATED
THAT HALF
OF ALL
PREGNANCIES
ARE UNINTENDED.
50%

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.



Associate Professor Jayne Lucke with PhD candidate Britta Wigginton

"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 Loxton (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

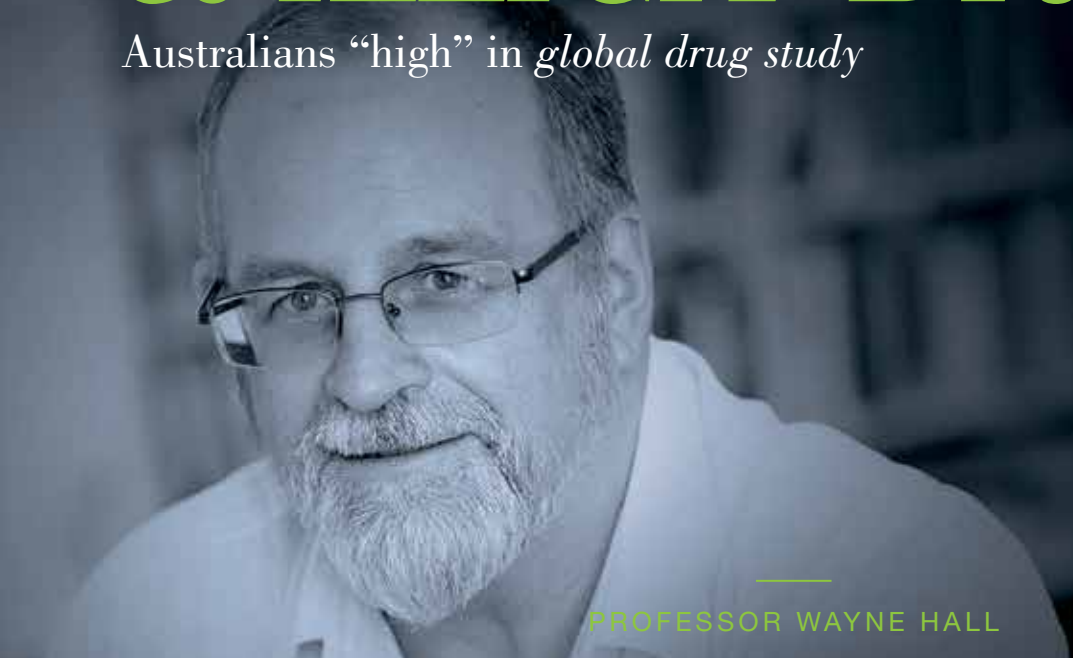


ARE YOU A YOUNG WOMAN AGED 18–23 YEARS?

If so, scan the QR Code to take part in the CUPID survey or visit www.uqccr.uq.edu.au/cupid

SUN, SURF & *ILLICIT DRUGS*

Australians “high” in *global drug study*



PROFESSOR WAYNE HALL

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 cocaine; 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 mainly 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 anti-retroviral 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

AUSTRALIANS CONSUME MORE MARIJUANA THAN ANY OTHER POPULATION ON THE PLANET.

Researchers: Professor David L. Paterson, Dr Hanna Sidjabat, Witchuda Kamolvit, Alexander Wailan, Dr Anna Silvey, Leisha Richardson.
Email: d.paterson1@uq.edu.au

BACKGROUND: Professor David Paterson

AUSTRALIANS ARE AMONGST
THE HIGHEST USERS
OF ANTIBIOTICS IN THE
DEVELOPED WORLD,
WITH 22 MILLION
PRESCRIPTIONS A YEAR.

22M

RISE OF THE *SUPERBUGS*

A grave global health problem

PROFESSOR DAVID PATERSON

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 cabapenem antibiotics, a powerful family of drugs often used as a last resort for treating serious infections.

However some bacteria are resistant to cabapenem antibiotics. New Delhi Metallo- β -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.

Acinetobacter baumannii is resistant to disinfectant. Its prevalence and ability to survive in a hospital environment is believed to be a result of its capacity to form biofilms – a thin, slimy film of bacteria that adheres to many different kinds of surfaces.

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.



RISE OF THE SUPERBUGS, ABC FOUR CORNERS

Reporter Geoff Thompson looks at the rise of superbugs, visiting the hot spots around the world where the misuse of antibiotics is creating a breeding ground for these bacteria and he tells the horrific stories of those who’ve contracted infections that can’t be controlled. Footage courtesy of ABC Four Corners.

DETECTING BREAST CANCER *PROGRESSION*

Prospective study of *high-risk patients*

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.



Nurse assisting patient undergoing mammogram screening procedure

"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.

BREAST CANCER
KILLS SEVEN
WOMEN
EVERY DAY
IN AUSTRALIA.

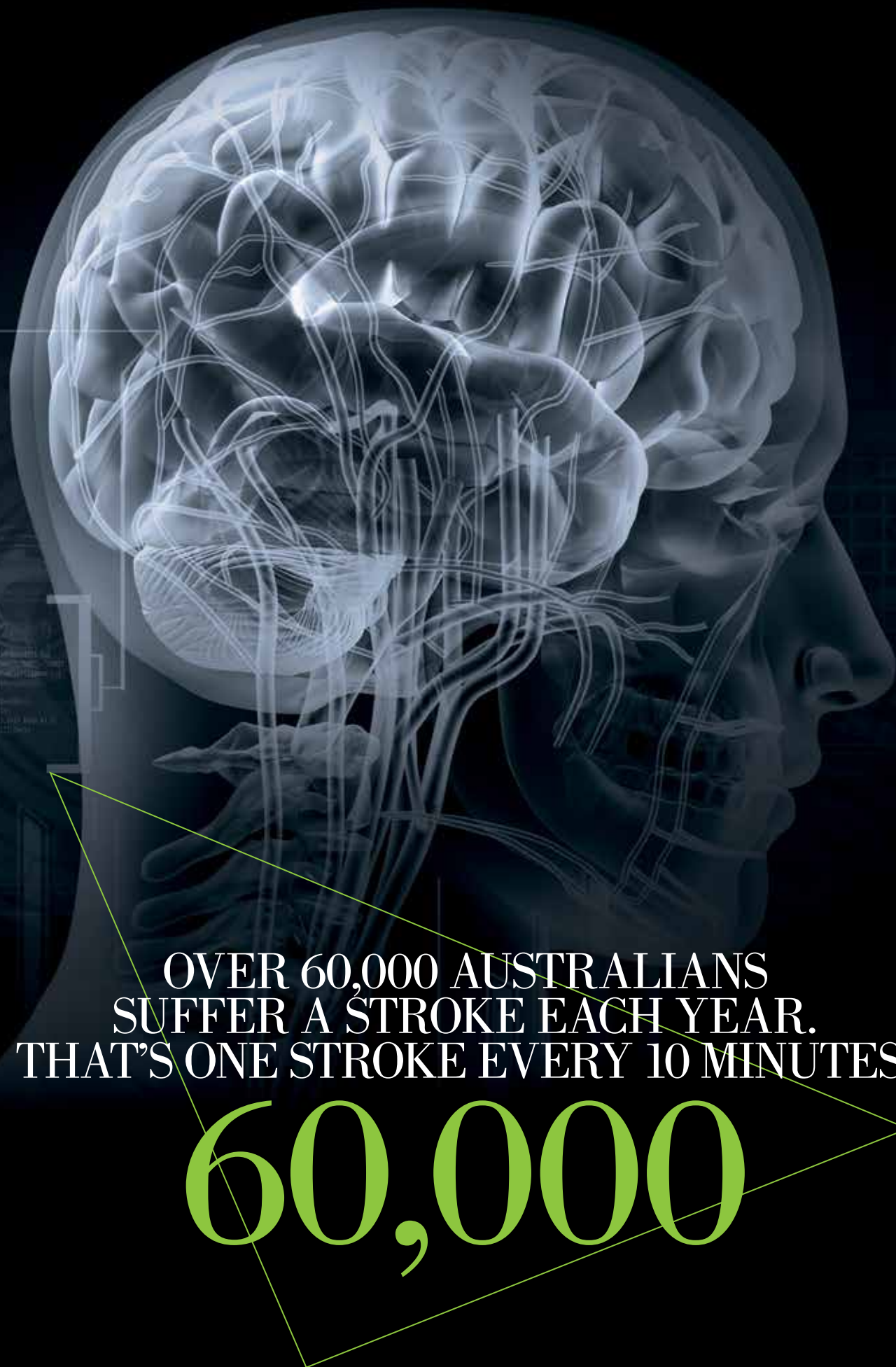
7

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



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

60,000

STROKE: *TIME IS BRAIN*

Improved treatment for stroke patients

DR SIMON FINNIGAN

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/UQCCR), Ms Tennille Rowland (RBWH), Professor Alan Coulthard (RBWH), Ms Emma Schleiger.
Email: finnigan@uq.edu.au

DEMENTIA CARE *ON YOUTUBE*

Free training program for carers

PROFESSOR HELEN CHENERY

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 health care 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.”

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

APPROXIMATELY
1 MILLION
AUSTRALIANS
WILL SUFFER FROM
DEMENTIA BY 2050.

1M



ACCESS THE DEMENTIA CARE TRAINING PROGRAM

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.

APCN: DEEP BRAIN *STIMULATION*

World leaders in brain research

**64,000 AUSTRALIANS
CURRENTLY SUFFER
FROM PARKINSON'S
DISEASE ... A FIGURE
THAT IS EXPECTED
TO INCREASE BY
80% OVER THE NEXT
TWENTY YEARS.**

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 ground-breaking 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.



ABOVE: Associate Professor Terry Coyne (left) and Professor Peter Silburn (far right) performing DBS surgery
LEFT: Parkinson's disease patient undergoing DBS surgery

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.

Professor Silburn said the 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."



SEE HOW DBS SURGERY IS TRANSFORMING LIVES

Scan the QR code to see real-life footage from the DBS surgery of a patient with Parkinson's disease. Footage courtesy of Australian Doctor. Please be aware that this video contains medical footage that some viewers may find disturbing.



COMMUNITY *ENGAGEMENT*

—
BUILDING AWARENESS
THROUGH PARTICIPATION AND EDUCATION



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 Jun Yan and PhD student Hosam 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 Coyne, along with Professor Jean-Pierre 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 Neuroethics: 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.

BREAST CANCER AWARENESS MORNING TEA

On Thursday, 4 October, 2012 the Lakhani Group held their annual Pink Ribbon Morning Tea to raise money for the National Breast Cancer Foundation. Gourmet baked goods were bountiful with Pete's Famous Raspberry Brownies only to be outdone by Rebecca's (aka the Cupcake Queen) Double Chocolate Peanut Bomb Cupcakes. The event was a success with funds totalling \$186.70. Look out for this event again in October 2013.



Students visiting UQCCR

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.

YOUNG SCHOLARS PROGRAM

The University of Queensland's Young Scholars Program (YSP) provides high achieving secondary school students with an opportunity to discover, learn and engage with UQ's academic community and like-minded students from across Queensland and New South Wales.

As part of the Program, UQCCR researchers Dr Marloes Dekker and Dr Helen Barrett presented *Clinical Science: from Bedside to Bench and Back Again*. This demonstration showed how immunohistochemistry, a technique by which antibodies to proteins expressed by the placenta are visualised, can provide insights to which cells produce these proteins.

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, page 10).



FUTURE *RESEARCH*

IMPROVING PATIENT OUTCOMES
THROUGH PROCUREMENT AND EXPANSION

WORLD-CLASS *IMAGING AT HIRF*

A revolution in cancer research



PROFESSOR NICK FISK / ASSOCIATE PROFESSOR STEPHEN ROSE

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

APPENDIX ONE

RESEARCH GRANTS 2012

New grants awarded in 2012 with a UQCCR lead investigator totalled \$19,136,921. UQCCR researchers are indicated in bold.

Granting Body	Investigators (CI's only, not AI's)	Project Title	Dates	Total Grant Amount
MIND Foundation of British Columbia	Carter A , Reiner P	Development of evidence-based rational for delivering messages to the public to reduce the stigma and discrimination of mental illness	2012-2012	\$20,000.00
UQ - Early career research grant scheme	Carter A , Dissanayaka N , O'Sullivan J, Hall W	Perspectives and experiences of Parkinson's disease patients with drug-induced impulse control disorders: A qualitative study	2012-2012	\$36,000.00
UQ - New Staff Research Start Up Fund	Carter A	Clinician attitude toward using contingency management programs to treat drug addiction	2012-2013	\$11,982.00
NHMRC Project Grant	Colditz PB , Sanders M, Boyd R, Pritchard M , Gray P, O'Callaghan M, Slaughter V, Whittingham K	A randomised controlled trial of enhanced parenting capacity to improve developmental outcomes in preterm infants	2012-2016	\$996,337.00
ARC Discovery Project Grant	Copland DA , McMahon K, Silburn P , Angwin A, Crosson B	Control of language production and its neural substrates	2012-2014	\$323,000.00
Group of Eight Australia - Germany Joint Research Co-operation Scheme	Copland DA , Floel A, Meinzer M , Rodriguez A	Enhancing language learning through physical exercise and cortical stimulation	2012-2013	\$15,400.00
Cancer Council Queensland	Cummings M , Lakhani S , Simpson P , Stratton M	Re-defining the molecular evolution of breast cancer and its precursors	2012-2013	\$200,000.00
Parkinson's Queensland Inc	Dissanayaka N , Silburn P , Byrne G, O'Sullivan J, Copland D , Mellick G, Marsh R	Cognitive sequence in Parkinson's disease: Identifying the neural substrates	2012-2012	\$20,000.00
RBWH Foundation	Dissanayaka N , Silburn P , Copland DA , Byrne G, O'Sullivan J, Marsh R, Angwin A, Mellick G	Improving diagnostic methods of anxiety disorders in Parkinson's disease: Phase 2	2012-2013	\$35,000.00
Multiple Sclerosis Research Australia	Greer J , Pender M, Pow D	Understanding the interplay between the spectrum of glial and neuronal autoantibodies and clinical outcome in multiple sclerosis	2012-2013	\$50,000.00
ARC Discovery Project grants	Hall W , Gartner C , Partridge B , Carter A , Lucke J	A disease of the brain": How do neurobiological explanations of addiction influence the attitudes and behaviour of smokers?	2012-2014	\$143,624.00
UQ - Collaboration and Industry Engagement Fund	Khostrotehrani K , Prow T	Routine assay to determine response to Braf inhibition therapy in melanoma	2012-2013	\$72,650.00
NHMRC Project Grant	Lingwood BE , Wright I, Lumbers E , Colditz PB	An integrated approach to inotropic support in preterm neonates	2012-2014	\$670,920.00
Royal Brisbane and Women's Hospital	McCombe P	Genetic factors that predispose to GBS and CIDP	2012-2012	\$30,000.00
Motor Neuron Disease Research Institute of Australia	McCombe P , Henderson R, Rose SE , Wallace R, Petit AP & Robinson G	MND: Not a Simple Disease	2012-2012	\$100,000.00

Granting Body	Investigators (CI's only, not AI's)	Project Title	Dates	Total Grant Amount
Therapeutic Innovation Australia	Smith MT, Brown MA, Mitchell M , Paul S, Griffiths L, Rice G	A Queensland Node of Translating Health Australia	2012	\$3,000,000.00
Cyril Golding (donation)	Paterson D	Antibiotic Resistance	2012	\$60,000.00
UQ - New Staff Research Start Up Fund	Rodriguez A	Effects of aerobic exercise on new word learning in healthy older adults	2012	\$11,969.00
The A-T Children's Project, USA	Rose SE , Sinclair K , Lavin M	Investing connectivity and neuro-inflammation within corticomotor networks in ataxia-telangiectasia: improving our understanding of the clinical phenotype	2012-2013	\$122,000.00
RBWH Foundation	Rogers B , Sidjabat H	The Community Onset ESBL and AmpC Study, In-depth genetic analysis	2012-2013	\$14,000.00
Cancer Council Queensland	Farah CS , Dalley A	Oral epithelial stem cell markers as a platform for better diagnosis of mouth cancer	2012-2013	\$200,000.00
UQ - New Staff Research Start Up Fund	Carter A	Clinicians perspectives on contingency management treatments for addiction	2012-2013	\$11,982.00
Pathology Queensland	Nimmo G , Sidjabat H	Molecular epidemiology of carbapenem producing Enterobacteriaceae and Acinetobacter spp from Queensland	2012-2012	\$27924.25
UQ First Link Grant	Sidjabat H	Development of rapid and accurate bacterial species identification using mass spectrometry and direct antibiotic susceptibility assay from urine specimen	2012-2014	\$4,490.00
UQ Travel Award	Rodriguez AD , Nocera J	UQ Category 2 Travel Award - Amy Rodriguez	2012-2012	\$2,275
Motor Neuron Disease Research Institute of Australia	McCombe P , Henderson R , Rose SE , Pettit A , Gail R	MND - not a simple disease	2012-2012	\$100,000.00
RBWH Foundation	McCombe P , Henderson R,	Blood Biomarkers in Motor Neurone Disease	2012-2013	\$30,000.00
NHMRC Project Grant	Khosrotehrani K , Saunders N, Lyons J	Tracking epidermal clonal evolution during skin cancer induction and development	2013-2014	\$538,569.00
UQ Collaboration and Industry Engagement Fund	Chenery H , Paul S, Mellick G, Silburn P	Developing multimodal biomarkers and associated database for Parkinson's disease	2012-2014	\$75,000.00
Research Donation Generic	Lingwood B , Colditz PB	A Laser Doppler Iontophoresis System	2012-2013	\$39,400.00
NHMRC Program Grant (QIMR)	Lakhani S , Chevenix-Trench G, Khanna K	Molecular determinates of susceptibility and progression in breast cancer (NHMRC Program Grant 1017028 administered by QIMR)	2012-2016	\$1,868,165.00
ARC Discovery Project Grants	Khosrotehrani K	Understanding potency and role of individual stem cells in the skin using Rainbow technology	2013-2014	\$250,000.00
Australasian College of Dermatologists Scientific Research Fund	Patel J , Khosrotehrani K	Modelling mechanisms of drug responses in infantile haemangiomas (IH) by using placental endothelial progenitor cells (EPC)	2013-2013	\$22,000.00
RBWH Foundation	McCombe P , Greer J , Wong A	T cells in stroke- part of the solution?	2013-2014	\$40,000.00
RBWH Foundation	Gardiner F , Lavin M , Schirra H	Optimising collection for metabonomic profiling of ejaculate to complement PCR in prostate cancer detection	2012-2013	\$57,000.00
RBWH Foundation	Colditz PB , Eiby Y	Preclinical trial of non-adrenergic inotropic agent (levosimendan) for treatment of poor cardiovascular function in preterm neonatal piglets	2013-2014	\$34,000.00
Motor Neuron Disease Research Institute of Australia	McCombe P , Ngo S , Frederik S	Investigating the causes and consequences of growth hormone dysfunction in motor neuron disease	2013-2013	\$96,637.00
Queensland Government Smart Futures Fund	Fisk N	Herston Imaging Research Facility (HIRF) & Cancer Molecular Diagnostics (CMD)	2012-2014	\$3,000,000

Granting Body	Investigators (CI's only, not AI's)	Project Title	Dates	Total Grant Amount
ACRF	Rose SE , Russell P, Boyd A, Crozier S, Whittaker A, Salvado O, Obermair A, Coulthard A, Gardiner F , Lavin M , Lakhani S , Kenny L, Fisk N , Langton C, Farah CS , Mitchell M , Rice G , Macfarlane D	ACRF Molecular Oncology Translational Imaging Facility	2012-2013	\$2,000,000.00
ARC Future Fellowships	Meinzer M	Harnessing no-invasive brain stimulation to improve language function in healthy and pathological ageing	2013-2016	\$714,128.00
ARC Discovery Project Grants	Lavin M	Role of senataxin in meiotic recombination and sex chromosome inactivation	2013-2015	\$357,000.00
Cancer Council Queensland	Lavin M	Role of ATM-dependent Mre11 phosphorylation in the DNA damage response	2013-2015	\$200,000.00
ARC Discovery Project Grants	Lucke J , Kaye S, Partridge B , Dunn M, Hall W , Farrell M, Racine E	Non-medical use of prescription stimulants by Australian university students: Attitudes, prevalence of, and motivations for use	2013-2015	\$240,000.00
NHMRC Project Grant	Scott J , Mcgrath J, Najman J, Alati R, Mamun A, Clavarion A	The outcomes of adolescents and young adults who experience hallucinations: A birth cohort study	2013-2015	\$603,862.00
Diabetes Australia Research Trust	Mitchell M	Differential expression of placental myostatin in gestational diabetes	2013-2014	\$58,970.00
National Stroke Foundation	Sheikh N , Finnigan S , Wong A, Read S	Quantitative Electroencephalography in Stroke	2012-2012	\$20,000.00
RBWH Foundation	Sheikh N , Wong A, Read S, Finnigan S	Role of Quantitative EEG in diagnosis, prognostication and management of Acute Stroke	2012-2012	\$30,000.00
RBWH Foundation	Donovan T, Moxon-Lester L, Pow D	Examining creatine excretion as a biomarker of hypoxic- ischaemic brain injury in preterm and term neonates	2012-2013	\$20,000.00
Research Donation Generic	Paterson D	Biofilm/clinical infection gift	2012-2012	\$20,000.00
Sanofi Pasteur Inc	Paterson D	Descriptive Epidemiology of Clostridium difficile Infection in Hospitalised Adult Patients in the Asia Pacific Region	2012-2012	\$49,185.00
RBWH Foundation	Pritchard M , Hovey D, Cartwright D, Scott J	A longitudinal study of autism, development and parenting in preterm infants (< 29 weeks) from 2 to 4 years	2012-2013	\$15,000.00
Research Donation Generic	Scott J	The Bryan Youth Mental Health PhD Scholarship	2012-2014	\$75,000.00
Research Donation Generic	Scott J	Youth Mental Health Schizophrenia Initiative	2012-2014	\$540,005.00
Research Donation Generic	Silburn P	Parkinson Neuroscience Research	2012-2012	\$123,609.00
Research Donation Generic	Simpson P	Margaret Taylor Scholarship for Breast Cancer Research	2012-2014	\$15,000.00
Lions Medical Research Foundation Fellowships	Dissanayaka N	New methods to diagnose and treat depression and anxiety in Parkinson's disease patients	2013-2016	\$300,000.00
Clinical Academic Fellowships	Mitchell M	Clinical Academic Fellowship - Midwifery	2012-2017	\$412,500.00
UQ Postdoctoral Research Fellowship	Salomon C , Rice G	Placento-maternal transfection and the role of exosomes in gestational diabetes mellitus (GDM)	2012-2015	\$281,410.00
Pathology Queensland	Paterson D , Nimmo G , Sidjabat H	Molecular epidemiology of carbapenem resistant Enterobacteriaceae and Acinetobacter spp. from Queensland	2012-2013	\$27,925.00
Queensland Government Smart Futures Fund Co-Investment Fund	Farah CS	Development of clinical and molecular diagnostics to improve the early detection and treatment of head and neck cancer	2012-2013	\$500,000.00
UQ - Early career research grant scheme	Gartner C	Test of a new motivational intervention for smoking cessation, incorporating mobile phone reminders	2013	\$39,000.00

UQCCR received Three equipment grants as part of the 2012 Major Equipment Initiative. UQCCR researchers are indicated in bold.

Major Contributor	Investigators	Project Title	Dates	Value
NHMRC Equipment Grant	Pettit AR , Khosrotehrani K , Fisk N , Raggatt L	Multi-user in vivo and ex vivo tissue-level mechanical testing instrument for bone and stem cell research	2012	\$30,500.00
UQ Major Equipment and Infrastructure	Dalley A , Rice G , Mitchell M , Farah CS , Lakhani S , Fisk N , Lavin M , Pow D , Khosrotehrani K , Simpson P , Zhou K-N, Lipman J, Muller M, Sly P, Vítetta L, Wang X-Q	Tandem fluorescent and phase–contrast imaging of live cells in real time for application to cancer cell biology, developmental biology, respiratory biology, wound healing investigation and cellular toxicity evaluation	2012	\$93,503.00
NHMRC Equipment Grant	Ashman K , Mitchell M , Rice G	Clinical Diagnostics and Applications Development Facility – Microchip Electrophoresis System for DNA and RNA assessment	2012	\$40,000.00

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

Granting Body	Investigators (CI's only, not AI's)	Project Title	Dates	Total Grant Amount
NHMRC Project Grant	Gillies M, Shen W, Barnett N	Glial-neuronal-vascular interactions in a novel transgenic model of Muller cell dysfunction	2012-2014	\$605,355.00
UQA-UQ Bilateral Research Collaboration Award	Pachana N, Starkstein S, Byrne G, Bucks R, Dissanayaka N	Cognitive behaviour therapy to treat depression and anxiety in Parkinson's disease	2012-2012	\$18,000.00
Parkinson's Queensland Inc (PQI) Seeding Grant Scheme	Angwin A, Copland D , McMahon K, Dissanayaka D , Silburn P	Cognitive sequelae in Parkinson's disease: Identifying the neural substrates	2012	\$25,000.00
NHMRC Project Grant	Chambers SK , Smith D, Berry M, Lepore S, Foley E, Occhipinti S, Frydenberg M, Gardiner RA	A randomised controlled trial of a mindfulness intervention for Men with advanced Prostate Cancer	2012-2014	\$706,243.25
University of New South Wales (NHMRC Project Grant)	Mattick R, Martire K, Bonevski B, Borland R, Doran C, Hall W , Farrell M	Randomised controlled trial of a financial counselling intervention and smoking cessation assistance to reduce smoking in socioeconomically disadvantaged groups	2012-2015	\$1,951,192.40
NHMRC Project Grant	Degenhardt L, Hall W , Cohen M, Lintzeris N, Nielsen S, Bruno R, Shand F, Farrell M	Pharmaceutical opioid prescription for chronic pain in Australia: Trajectories of prescribing, risk of adverse events, and predictors of Harm	2012-2016	\$1,041,601.00
NHMRC Program Grant	Chenevix-Trench G, Lakhani S , Khanna KK	Molecular determinants of susceptibility and progression in breast cancer	2012-2016	\$5,604,500.00
NHMRC Project Grant	Graves N, Sorrell T, Playford G, Barnett A	Modelling the cost-effectiveness of therapeutic strategies for invasive candidiasis among the ICU population	2012-2015	\$276,343.75
Mason Foundation	Coulson E, Rose SE , Hort J, Byrne G	Measures of cholinergic basal forebrain degeneration as an early screen for Alzheimer's disease	2012-2013	\$50,000.00
NHMRC Project Grant	Golledge J, Walker PJ , Ahimastos A, Muller R	Fenofibrate in the management of AbdoMinal aortic anEurysm (FAME)	2012-2014	\$439,735.00
NHMRC Project Grant	Golledge J, Norman P, Rush C, Walker PJ	Interaction between parathyroid hormone, sclerostin and the wingless pathway in abdominal aortic aneurysm	2012-2016	\$698,300.00
NHMRC Project Grant	Golledge J, Norman P, Walker PJ , Ahimastos A, Dalman R	TElmisartan in the management of abDominal aortic aneurYsm. (TEDY)	2012-2016	\$1,105,893.00
Australian Centre for Health Services Innovation (AusHSI) stimulus grants	Mudge A, Walker PJ , McRae P, Donovan, Reade M, Gordon, Peel N	An interdisciplinary model to enhance care of surgical elders	2012	\$75,000.00

Granting Body	Investigators (CI's only, not AI's)	Project Title	Dates	Total Grant Amount
TPCH FOUNDATION MS2011-35	West M, Nataatmadja M, Walker PJ	Inhibition of inflammatory activity and metalloproteinase-2 (MMP2) activation limits extracellular matrix degeneration and prevents acute aortic dissection	2012	\$100,000.00
The Wm Wrigley Jr Company Foundation ADAF Community Service Grants	Ford PJ, Farah CS	Integrating Oral Health Care into a Homeless Service	2012	\$6,000.00
Dental Hygienists' Association of Australia Research Fund	Moore K, Farah CS , Ford PJ	Support needs and treatment experience of oral cancer patients and their caregivers: quality of life implications and recommendations for multidisciplinary approaches to treatment	2012	\$1,500.00
Monash University	Thistlewhaite L, Eley D, Parker M, Farah CS , Morgan P, Wilkinson D, Canny B, Zhang J, Brazil V. UMAT	A definition and exploration of fitness for purpose	2012	\$99,912.00
Queensland Government Smart Futures Fund Co- Investment Fund	Smith M, Brown M, Mitchell M , Griffiths L, Paul S, Rice G , Thomas G	Translating Health Discoveries into Products	2012-2014	\$4,796,000.00
RBWH Foundation	Donovan T, Lingwood B	Preterm Infant's Growth: When and Why Do the Babies Get Fat?	2012-2013	\$38,994.00
NHMRC Project Grant	Upton Z, Doran M, Khosrotehrani K	Innovations in Diabetic Foot Ulcer (DFU) Wound Care	2013-2015	\$387,711.00

APPENDIX TWO

UQCCR PUBLICATIONS 2012

Books 2012

- Carter, A., Hall, W.** & Illes, J. (2012). Addiction neuroethics: The ethics of addiction neuroscience research and treatment. London, U.K.: Academic Press.
- Carter. A. & Hall, W.D.** (2012) Addiction neuroethics: the promises and perils of neuroscience research on addiction, Cambridge, UK: Cambridge University Press.
- Teesson, M., **Hall, W.D.**, Proudfoot,H. & Degenhardt, L. (2012) .Addictions (Clinical psychology: a modular course), 2nd edn. Hove: Psychology Press.

Book Chapters 2012

- Capps, B., **Carter, A.** and **Hall, W.** (2012). Addiction. In Ruth F. Chadwick (Ed.), Encyclopedia of applied ethics 2nd ed. (pp. 22-30) London, United Kingdom: Elsevier.
- Gámez-Pozo, A., Sánchez-Navarro, I., Ibarz Ferrer, N., García Martínez, F., **Ashman, K.** and Fresno Vara, J. Á. (2012). High-Throughput Phosphoproteomics from Formalin-Fixed, Paraffin-Embedded Tissues. Current Protocols in Chemical Biology. (pp 161–175).
- Carter, A. & Hall, W.** (2012). Addiction neuroethics: Ethical and social implications of genetic and neuroscience research on addiction [chapter 97]. In Encyclopedia of addictive behavior. Elsevier.
- Carter, A. & Hall, W.** (2012). Ethical issues in addiction treatment [chapter 53]. In Encyclopedia of addictive behavior, Elsevier.
- Carter, A. & Hall, W.** (2012). The rights of individuals treated for drug, alcohol, and tobacco addiction. In Mental health and human rights: vision, praxis and courage, Dudley D, Silove D, Gale F (eds), pp 519-529. Oxford: Oxford University Press.
- Carter, A., Hall, W.** & Miler, P. (2012). The ethics of harm reduction. In Diane Riley and Richard Pates (Ed.), Harm reduction in substance use and high-risk behaviour (PP. 111-123).London, United Kingdom: Wiley - Blackwell.
- Carter, A.**, Capps, B. & **Hall, W.** (2012). Emerging neurobiological treatments of addiction: Ethical and public policy considerations. In Adrian Carter, Wayne Hall and Judy Illes (Ed.), Addiction neuroethics: The ethics of addiction neuroscience research and treatment (pp. 96-113) New York, NY, United States: Elseiver.
- Carter, A., Hall, W.** and Illes, J. (2012). What is addiction neuroethics and why does it matter?. In Adrian Carter, Wayne Hall and Judy Illes (Ed.), Addiction neuroethics: The ethics of addiction neuroscience research and treatment (pp. xvii-xxiv) London, U.K: Academic Press.
- Chapman, A., Kaplan, J. & **Carter, A.** (2012) Summary and recommendations: ethical guidance for genetic research on addiction and its translation into public policy. In Genetic research on addiction: ethics, the law, and public health, Chapman A (ed), pp 232-245. London: Cambridge University Press.
- Degenhardt, L. & **Hall, W.** (2012) What are the policy implications of the evidence on cannabis and psychosis? In Marijuana and madness, Castle DJ, Murray RM, D'Souza D (eds), 2nd edn, pp 55-65. New York: Cambridge University Press.
- Degenhardt, L. **Hall, W.**, Lynskey, M., Coffey, C. & Patton, G.C. (2012) The association between cannabis use and depression: a review of the evidence. In Marijuana and madness, Castle DJ, Murray RM, D'Souza D (eds), 2nd edn, pp 114-128. New York: Cambridge University Press.
- Degenhardt, L., **Hall, W.**, Lynskey, M., Coffey, C. & Patton, G.C. (2012) The association between cannabis use and depression: a review of the evidence. In Marijuana and madness, Castle DJ, Murray RM, D'Souza D (eds), 2nd edn, pp 114-128. New York: Cambridge University Press.
- Farah, C. S.**, Ford, P. J., Allen, K., Vu, A. & McCullough, M. J. (2012). Oral cancer and potentially cancerous lesions - early detection and diagnosis. In Kalu U. E. Ogbureke (Ed.), Oral cancer (pp. 79-106) Rijeka, Croatia: InTech.
- Duncan, E.L.** & Brown, M.A. (2012). Genome-wide Association Studies” in Genetics of Bone Biology and Skeletal Diseases (Raj Thakker and Michael Whyte eds), Elsevier.
- Hall, W. & Carter, A.** (2012). A history of drug use in Australia. In Drug use in society, Hamilton M, Ritter A, King T (eds). London: Oxford University Press.
- Hall, W. & Carter, A.** (2012). How may neuroscience affect the way that the criminal courts deal with addicted offenders? In Neuroscience and responsibility, Vincent N (ed). London: Oxford University Press.
- Hall, W. & Lucke, J.** (2012). Drug decriminalization and legalization (Chapter 70). In: Miller PM, ed. Interventions for Addiction: Comprehensive Addictive behaviors and disorders. , (pp 687-695).Amsterdam: Academic Press.
- Hall, W.** & Alati, R. (2012). Gateway patterns of drug use. In Encyclopedia of adolescence, Levesque R (ed), pp 1116-1122. New York: Springer.
- Hall, W. D., Gartner, C. E.**, Mathews, R. & Munafo, M. (2012). Technical, ethical and social issues in the bioprediction of addiction liability and treatment response. In Adrian Carter, Wayne Hall and Judy Illes (Ed.), Addiction neuroethics: The ethics of addiction neuroscience research and treatment (pp. 115-135) New York, NY, United States: Elseiver.
- Tapia, J., De Alvarado, M. & **Rice, G.E.** (2012). Ovarian Cancer In Vitro Diagnostics: New Approaches to Earlier Detection. In Ovarian Cancer (ISBN 980-958-307-885-9).

21. Lakhani, S.R., Rakha, E. & **Simpson, P.T.** (2012). Chapter 3-1 Invasive lobular carcinoma. World Health Organization (WHO) Classification of tumours of the Breast 4th edition.

22. Lakhani, S.R., Schnitt, S., O'Malley, F., van de Vijver, M., **Simpson, P.T.**, Palacios, J. (2012). Chapter 4 Lobular neoplasia. World Health Organization (WHO) Classification of tumours of the Breast 4th edition.

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28. Paterson, D.L. (2012). Infections due to Other Members of the Enterobacteriaceae, including Management of Multidrug-resistant strains. In: Goldman's Cecil Medicine Twenty-fourth Edition (Eds Goldman L, Schafer Al), chapter 313, pp. 1874-1877. Elsevier Saunders. ISBN-978-1-4377-1604-7.

29. Room, R. & **Hall, W.** (2012). Population approaches to alcohol, tobacco and drugs: effectiveness, ethics and interplay with addiction neuroscience. In Addiction neuroethics: the ethics of addiction neuroscience research and treatment, Carter A, Hall W, Illes J (eds), pp 247-260. Amsterdam: Elsevier.

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Journal Articles 2012

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2. Adnan, S., Paterson, D. L., Lipman, J., Kumar, S., Li, J., Rudd, M., & Roberts, J. A. (2012). Pharmacokinetics of Beta-Lactam Antibiotics in Patients with Intra-Abdominal Disease: A Structured Review. Surgical Infections, 13(1), 9-17. doi: Doi 10.1089/Sur.2011.046.

3. Agarwal, E., Ferguson, M., Banks, M., **Bauer, J., Capra, S.,** & Isenring, E. (2012). Nutritional status and dietary intake of acute care patients: Results from the Nutrition Care Day Survey 2010. Clinical Nutrition, 31(1), 41-47. doi: DOI 10.1016/j.clnu.2011.08.002

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7. Ambermoon, P., Carter, A., Hall, W., Dissanayaka, N., & O'Sullivan, J. (2012). Compulsive use of dopamine replacement therapy: a model for stimulant drug addiction? Addiction, 107(2), 241-247. doi: DOI 10.1111/j.1360-0443.2011.03511.x.

8. Amin, A. O. A., Kote-Jarai, Z., Schumacher, F. R., Wiklund, F., Berndt, S. I., Benlloch, S., Giles, G. G., Severi, G., Neal, D. E., Hamdy, F. C., Donovan, J. L., Hunter, D. J., Henderson, B. E., Thun, M. J., Gaziano, M., Giovannucci, E. L., Siddiq, A., Travis, R. C., Cox, D. G., Canzian, F., Riboli, E., Key, T. J., Andriole, G., Albanes, D., Hayes, R. B., Schleutker, J., Auvinen, A., Tammela, T. L., Weischer, M., Stanford, J. L., Ostrander, E. A., Cybulski, C., Lubinski, J., Thibodeau, S. N., Schaid, D. J., Sorensen, K. D., Batra, J., Clements, J. A., **Chambers, S.,** Aitken, J., **Gardiner, R. A.,** Maier, C., Vogel, W., Dork, T., Brenner, H., Habuchi, T., Ingles, S., John, E. M., Dickinson, J. L., Cannon-Albright, L., Teixeira, M. R., Kaneva, R., Zhang, H. W., Lu, Y. J., Park, J. Y., Cooney, K. A., Muir, K. R., Leongamornlert, D. A., Saunders, E., Tymrakiewicz, M., Mahmud, N., Guy, M., Govindasami, K., O'Brien, L. T., Wilkinson, R. A., Hall, A. L., Sawyer, E. J., Dadaev, T., Morrison, J., Dearnaley, D. P., Horwich, A., Huddart, R. A., Khoo, V. S., Parker, C. C., Van, As N., Van, As N., Woodhouse, C. J., Thompson, A., Thompson, A., Ogden, C., Cooper, C. S., Lophatonanon, A., Southey, M. C., Hopper, J. L., English, D., Virtamo, J., Le, Marchand L., Campa, D., Kaaks, R., Lindstrom, S., Diver, W. R., Gapstur, S., Yeager, M., Cox, A., Stern, M. C., Corral, R., Aly, M., Isaacs, W., Adolfsson, J., Xu, J., Zheng, S. L., Wahlfors, T., Taari, K., Kujala, P., Klarskov, P., Klarskov, P., Klarskov, P., Frikke-Schmidt, R., Bojesen, S. E., Fitzgerald, L. M., Kolb, S., Kwon, E. M., Karyadi, D. M., Orntoft, T. F., Borre, M., Borre, M., Luedeke, M., Herkommer, K., Meyer, A., Serth, J., Marthick, J. R., Patterson, B., Wokolorczyk, D., Spurdle, A., Lose, F., McDonnell, S. K., Joshi, A. D., Shahabi, A., Pinto, P., Santos, J., Ray, A., Sellers, T. A., Lin, H. Y., Stephenson, R. A., Teerlink, C., Muller, H., Rothenbacher, D., Tsuchiya, N., Narita, S., Cao, G. W., Slavov, C., Mitev, V., Chanock, S., Gronberg, H., Haiman, C. A., Kraft, P., Easton, D. F. & Eeles, R. A. (2012). A meta-analysis of genome-wide association studies to identify prostate cancer susceptibility loci associated with aggressive and non-aggressive disease. Human molecular genetics. doi: 10.1093/hmg/dds425.

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APPENDIX *THREE*

AWARDS 2012

Name	Award
Professor Paul Colditz	Distinguished Achievement Award at the 21 st annual RBWH Healthcare Symposium
Associate Professor Kiarash Khosrotehrani	NHMRC Achievement Award
Associate Professor Camile Farah	Fellow of the Pierre Fauchard Academy
Associate Professor Jayne Lucke	Illumina Research Excellence Award – Ovation 2012
Dr Adrian Carter	Australasian Professional Society of Alcohol and Other Drugs, Early Career Award for Excellence in Research and Science F1000 Travel Award
Dr Carlos Salomon	UQ Postdoctoral Research Fellowship Award Y.W. (Charlie) Loke Travel Award
Dr Coral Gartner	Excellence in Research for the Joint Bridging the Gap Initiative
Dr Emma Duncan	2012 Australian and New Zealand Bone and Mineral Society Kaye Ibbertson Award 2012 Clinician Researcher of the Year, Australian Society for Medical Research (Queensland) 2012 Endocrine Society of Australia Mid-Career Award 2012 Best Basic Science Free Paper, Australian Rheumatology Association 2012 Paper of the Year runner-up – University of Queensland Diamantina Institute
Dr Hanna Sidjabat	Biorad Laboratories Research Excellence Awards – Ovation 2012
Dr Keith Ashman	ABSciex Research Excellence Award – Ovation 2012
Dr Nadeeka Dissanayaka	Best Presentation Award at Parkinson's Australia National Conference
Dr Shyuan Ngo	2012 Australian Academy of Science France-Australia Science Innovation Collaboration (FASIC) Program Early Career Fellowship GRS/IGF-1 Society Travel Grant ESA/IPSEN International Travel Grant Award
Ms Laurie Beechey	Zip Professional Development Award – Ovation 2012
Ms Rebecca Johnston	GE Healthcare 2011 IN Cell Analyzer Image Competition Winner
Ms Shiree Heath	Shimadzu Outstanding Young Investigator Award – Ovation 2012
Dr Margo Pritchard	Best Presentation in ESPNIC Category at the 4 th congress of the European Academy of Paediatric Societies Istanbul, Turkey Best Poster Presentation at the 21 st annual RBWH Healthcare Symposium
Dr Simon Finnigan	Best Clinical Science Poster at the 21 st annual RBWH Healthcare Symposium

STUDENT AWARDS 2012

Name	Award
Adeline Chan	Best Poster Presentation – Basic Science at the 21 st annual RBWH Healthcare Symposium
Alexander Wailan	Shimadzu New Investigator Development Prize – Ovation 2012
Benjamin Rogers	American Society for Microbiology Student and Post-Doctoral Fellow Travel Grant Shimadzu Outstanding Young Investigator Award – Ovation 2012
Emma Schleiger	RBWH Postgraduate Scholarship
Hosam Zowawi	Shimadzu New Investigator Development Prize – Ovation 2012
Jamie Kutasovic	Shimadzu Outstanding Young Investigator Award – Ovation 2012
Julie Wixey	Shimadzu Outstanding Young Investigator Award – Ovation 2012
Kerstin Pannek	Shimadzu New Investigator Development Prize – Ovation 2012
Nabeel Sheikh	Best Poster Presentation – Clinical Science at the 21 st annual RBWH Healthcare Symposium
Rebecca Johnston	Shimadzu New Investigator Development Prize – Ovation 2012
Sophia Van Hees	Siemens Outstanding Student Award – Ovation 2012
Vikram Vaska	Shimadzu New Investigator Development Prize – Ovation 2012
Witchuda Kamolvit	Shimadzu New Investigator Development Prize – Ovation 2012
Matthew Roberts	2012 Professor William Egerton Surgical Research Award 2012 Doctor in Training Research Scholarship

APPENDIX *FOUR*

CONFERENCE PRESENTATIONS 2012

Invited Speakers	
Dr Bradley Partridge	Invited Speaker: Walk on the wild side 5. With A/Professor Jayne Lucke. Addiction Conference, May, Brisbane, Australia.
Dr Bradley Partridge	Invited Speaker: Human Enhancement Technologies: Understanding Governance, Policies and Regulatory Structures in the Global context. With Professor Rudd ter Meulen, Professor Mike McNamee, Professor Ruth Chadwick. Round Table: Enhancement Technologies and Global Regulation, June, Singapore.
Dr Bradley Partridge	Invited Presentation: “Students and “Smart Drugs”: Prevalence, Attitudes, and Ethics in the Global Context”. Enhancement Technologies and Global Regulation, June, Singapore.
Dr Bradley Partridge	Invited Speaker: Ethical issues in the management of concussion in sport. The Montreal Neuroethics Network, IRCM, November, Montreal, Canada.
Dr Marloes Dekker	Invited speaker: Australian and New Zealand Placental Research Association 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: Is hardening occurring in the UK smoking population?. Docherty G., Gartner, C. E. and McNeill A. 15 th World Conference on Tobacco or Health, March, Singapore International Convention and Exhibition Centre.
Dr Coral Gartner	Invited Speaker: Childhood exposure to secondhand smoke in Australia: Is the socio-economic gap widening or narrowing? Gartner, Coral E. and Scollo, M. 15th World Conference on Tobacco or Health, March, Singapore International Convention and Exhibition Centre.
Dr Coral Gartner	Invited Speaker: Would vaccination against nicotine be a cost effective way to prevent smoking uptake in adolescents?. Gartner, C. E., Barendregt, J. J., Wallace, A. and Hall, W. D. World Conference on Tobacco or Health (15th, WCTOH, 2012), March, Singapore, Republic of Singapore.
Dr Judith Greer	Invited Speaker: Sanofi/Genzyme Neurology Conference, Sydney, August 2012.
Dr Andrew Dalley	Invited Speaker: Foetal 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, March, Atlanta, 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	Invited Speaker: Dementia and Speech Pathology: Progressive Aphasia, Treatment, and Outcomes. Continuing Professional Development workshop for Speech Pathology Australia, November, Queensland Branch.
Dr Erin Conway	Invited Speaker: Supporting quality person-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	Invited Speaker: Message and Recaps: A resource for care staff working with people with Dementia. Conway, E., Baker, R., Pachana, N., Mitchell, L., Angwin, A., Humphreys, M., et al. Blue Care Dementia Research Forum. July, Queensland, Australia.
Dr Adrian Carter	Keynote Speaker: Addiction neuroethics: Reaping the benefits and avoiding misuses of addiction neurobiology. Carter, A. and Hall, W. Addiction Neuroscience: Interpretation and Implications for public policy, legal practice, ethics, treatment, and user ‘identity and belief in self-efficacy’, Macquarie University, Sydney, Australia.
Dr Adrian Carter	Invited Speaker: Drug-induced impulse control disorders: A prospectus for neuroethical analysis. Carter, A., Dissanayaka, N., Hall, W. and O’Sullivan, J. Parkinson’s Australia, Brisbane, Australia.

Invited Speakers	
Dr Nadeeka Dissanayaka	Invited Speaker: Anxiety in Parkinson’s disease Psychiatric aspects in Parkinson’s disease symposium, Belgium, Germany.
A/Professor Andreas Zankl	Invited Speaker: The Bone Dysplasia Ontology, Getting Ready for The Human Phenome Project, Satellite Meeting of the Annual Meeting of the American Society of Human Genetics, Hosted by the Human Genome Variation Society and the Human Variome Project, November, San Francisco.
Dr Keith Ashman	Invited Speaker: Diagnosis by Mass, Pathology Grand Rounds, June.
Professor Phillip Walker	Invited Paper: An interdisciplinary model to enhance care of surgical elders. Mudge A, Walker PJ, McRae P, Donovan, Reade M, Gordon, Peel N. 21st Annual RBWH Healthcare Symposium. October, Brisbane, Australia.
Professor Phillip Walker	Invited Speaker: Research opportunities in surgery. UQ MBBS Student symposium, August, Brisbane, Australia.
Professor Phillip Walker	Invited Paper: Thrombus volume is similar in ruptured and intact abdominal aortic aneurysm. Iyer V, Jenkins J, Bradshaw B, Cronin O, Walker PJ, Golledge J. Moreton Bay Vascular Society July. Brisbane, Australia.
Professor Phillip Walker	Invited Paper: Barriers to screening and diagnosis of PAD by General Practitioners. Haigh K, Bingley J, Golledge J, Walker PJ. Moreton Bay Vascular Society July, Brisbane, Australia.
Professor Phillip Walker	Invited Paper: Left ovarian vein incompetence and “Positional Nut-Cracker”. A Catchpole I, Walker PJ, Cavaye D. Moreton Bay Vascular Society July, Brisbane, Australia.
Professor Phillip Walker	Invited Speaker: The main research questions that Australasian vascular surgeons would like answered. NHMRC NCRE-PAD Annual Meeting. March, Sydney, Australia.
Professor Nick Fisk	Plenary Speaker: Pregnancy Management in the mid/late 21st Century. National University Obstetrics and Gynaecology Congress 2012, May, Singapore.
Professor Nick Fisk	Plenary Debate: I wouldn’t choose O&G as my specialty if I had my time again. National University Obstetrics and Gynaecology Congress 2012, May, Singapore.
Professor Nick Fisk	Invited Speaker: Exploiting the primitive properties of human fetal stem cells for tissue repair. 1st International Conference for BioNano Innovation (ICNI), July, Brisbane, Australia.
Dr Allison Pettit	Invited Speaker: Osteomacs are multifunctional contributors to bone repair and dynamics. The Australian Health and Medical Research Congress, November, Adelaide, Australia.
Dr Allison Pettit	Invited Speaker: Depletion of macrophages significantly impairs endochondral fracture healing. Wu AC, Alexander KA, Kaur S, Wulschleger ME, Steck R, Gregory L, Raggatt LJ, Pettit AR. 1st Asia-Pacific Bone and Mineral Research Meeting/ Australian and New Zealand Bone and Mineral Society, Young Investigator Award Symposium, September, Perth, Australia.
Dr Tracey Bjorkman	Invited Speaker: Understanding and improving treatments of neonatal seizures following a hypoxic-ischemic event. Lions Club of Burleigh Heads Charity Golf Day. Gold Coast, Australia.
Dr Tracey Bjorkman	Invited Speaker: Understanding and improving treatments of neonatal seizures following a hypoxic-ischemic event. Guest Speaker, Lions Club of Brisbane Metropolitan Spring Fashion Parade. Brisbane, Australia.
Dr Tracey Bjorkman	Invited Speaker: Understanding and improving treatments of neonatal seizures following a hypoxic-ischemic event Mothers and Babies Research Meeting, UQ School of Medicine, Brisbane Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders: The Latest Research, Australian Drug Foundation Queensland, November, Novotel, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders in an Indigenous Community, FASD Awareness Day Event, September, UQCCR, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders: Education for service providers, Community Living Program, August, Nundah, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders: What practitioners need to know, Queensland Centre for Intellectual & Developmental Disabilities, Des O’Callaghan Auditorium, August, Mater Hospital, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders in the criminal justice system, Queensland Police Mental health Intervention Unit, June, Mercure Hotel, Brisbane. Australia.
Dr Janet Hammill	Invited Speaker: Rural and Regional Law and Justice, University of New England Law School, May, Aanuke Beach Resort, Coff’s Harbour.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders in the criminal justice system, Crime Research and Statistics Network, Dept of Premier and Cabinet, April, Executive Building, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Preventing FASD, Murri Court Yarning Circle, March, Roma St Parklands, Brisbane, Australia.
Dr Janet Hammill	Invited Speaker: Fetal Alcohol Spectrum Disorders in the criminal justice system, Toowoomba Community Justice Group, March, Centacare Toowoomba, Australia.
A/Professor Camile Farah	Invited Speaker: IADR, 52nd Annual ANZ Division Meeting, Denarau, September, Fiji.
A/Professor Camile Farah	Invited Speaker: IADR, 90th General Session and Exhibition, July, Iguacu Falls Brazil.

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	Conference paper: What does addiction neuroscience tell us about the responsibility of addicted persons for their drug use and crimes committed to fund their drug use? April, The Mutual Challenges of the Neurosciences and Public Health, European Neuroscience and Society Network Conference, London.
Professor Wayne Hall	Conference paper: What does addiction neuroscience tell us about the responsibility of addicted persons for their drug use and crimes committed to fund their drug use? April, The Mutual Challenges of the Neurosciences and Public Health, European Neuroscience and Society Network Conference, London.
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: Should we trial Deep Brain Stimulation as a treatment for addictive disorders? April, Centre for Medical Ethics and Department of Neuroscience, University of Bristol.
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.
Professor Wayne Hall	Welcome Lecture in Neuroethics: The brain disease model of addiction: Assessing its validity, utility and implications for public policy towards the treatment and prevention of addiction. June, Oxford Centre for Neuroethics, University of Oxford.

APPENDIX *FIVE*

SEMINARS HELD AT UQCCR 2012

Date	Presenter	Title
2/2/2012	Professor Matt Cooper	Bacterial Diagnosis and Therapy: Towards Clinical Outcomes
16/2/2012	Dr Trent Woodruff	The Multiple Roles of Complement Anaphylatoxins C3a and C5a in Neurodegeneration and Neurodevelopment
22/2/2012	Professor Keith Kaye (Special Seminar)	Antibiotic Stewardship and Infection Control Controversies
23/2/2012	Dr Nicole Cloonan	Redefining The miRNA- mRNA Interactiome Using RNAseq
1/3/2012	Dr Jason Roberts	Research To Optimise Antibiotic Dosing For ICU Patients
8/3/2012	Associate Professor Gerry Chan	Generation of fascularised one grafts through the use of dynamically cultured allogeneic primitive stem/progenitor cell-based scaffold constructs.
15/3/2012	Ms Jenny Lin	New-Generation Sequencing Platforms in the BGI and their Use in Medical Research
22/3/2012	Dr Helen Irving-Rodgers	The Extracellular Matrix and Fate of Ovarian Follicles
29/3/2012	Professor Barbara Lingwood	Cardiovascular Function in the Preterm Neonate
12/4/2012	Dr Paul Gray	Phantom Skin Pain - The Neuropathic Pain of Burn Injury
19/4/2012	Dr Nicole Vincent	Neuroscience and Criminal Responsibility
26/4/2012	Professor Bernard Pailthorpe and Dr Nicole Bordes	Computing and Visualisation for Research
3/5/2012	Professor Steve Taylor	A Curious Role for the Complement Factor C5a : a Protectant of Neural Tube Defects Following Dietary Folate Deficiency in Mice
10/5/2012	Dr Keith Ashman	Tales of Quantitative Proteomics
11/5/2012	Dr Marko Wilke (Special Seminar)	Advanced Imaging In Paediatric Brain Injury
17/5/2012	Dr James Scott	Does Childhood Trauma Cause Psychosis? A Review Of The Evidence
23/5/2012	Professor Prabhakar K Ranjekar (Special Seminar)	Social Transformation Through Improved Research on Nutrition in Mother and Child to Meet Future Global Challenge
24/5/2012	Associate Professor Emma Duncan	Genetics and Endocrine Diseases - Modern Approaches and Applications
31/5/2012	Mr Greg Anderson	Systemic Control of Body Iron Metabolism: Lessons from Mice and Men
7/6/2012	Dr Marloes Dekker	What do maternal diet and ageing have in common in the epigenetic regulation of HNF4alpha?
14/6/2012	Dr Jermaine (Jim) Coward	Interleukin-6 As A Therapeutic Target in Ovarian Cancer
21/6/2012	Associate Professor Michael Breakspear	"Crackling Noise" In Neonatal Cortex After Birth Hypoxia
28/6/2012	Professor Claire Roberts	Predicting Pregnancy Complications in Women Pregnant for the First Time: Can it be Done?
5/7/2012	Ms Shani Doig (Special Seminar)	My Role in Your Research
12/7/2012	Dr Ed Heffernan	Madness and Musical Chairs; The Mentally Ill in Custody
19/7/2012	Mr Patrick Danoy	Roche Diagnostics Presentation
24/7/2012	Professor Geoff Klein (Special Seminar)	Adjuvant Therapies to Enhance Cortical Plasticity and Recovery from Stroke

Date	Presenter	Title
26/7/2012	Dr Suyinn Chong	Epigenetics and a Mouse Model of Prenatal Alcohol Exposure
27/7/2012	Mr Davis Brimer, BioDent (Special Seminar)	How Reference Point Indentation will change the field of Bone Research
16/8/2012	Dr Catherine Forristal	Hypoxic Regulation of the Hematopoietic Stem Cell Niche
23/8/2012	Associate Professor Darryl Eyles	Modelling the Developmental Neurobiology of Schizophrenia; The Dopamine Hypothesis Meets the Neurodevelopmental Hypothesis
30/8/2012	Dr Katryn Stacey	Inflammasome Function in a Mouse Model of Lupus
6/9/2012	Associate Professor Ali Nawshad	Building the Roof of Mouth: TGFβ Signaling in Palate Development
13/9/2012	Professor Gunter Schuuman	Neurobehavioural Analysis of Reinforcement and its Relevance for Alcohol Abuse: Results from the IMAGEN Study
27/9/2012	Professor Wayne Hall	Ethical and Social Implications of Dopamine-Induced Compulsive Behaviour and Wastewater Analyses of Illicit Drug Use in the Population
4/10/2012	Dr Philip Hugenholtz	Culture-Independent Microbial Ecology and the Human Microbiome
18/10/2012	Professor Kerry Atkinson	The Biology and Clinical Applications of Mesenchymal Stromal Cells from Human Term Gestational Products
25/10/2012	Professor John Iredell	Clinical Microbiology
1/11/2012	Dr Jun Yan	The -572 Promoter Region C Allele in the Interleukin-6 Gene May Play a Role in Rate of Disease Progression in Multiple Sclerosis
8/11/2012	Associate Professor Jayne Lucke	"Up the Duff" Down Under: Reducing Unintended Pregnancy in Australia
15/11/2012	Professor Mark Schembri	Uropathogenic E. coli: Adhesins, Virulence and Biofilms
22/11/2012	Professor Helen Chenery	Deep Brain Stimulation in the Asia-Pacific: Emerging Futures for Interdisciplinary Research
29/11/2012	Dr Brad Partridge	Dazed and Confused: Ethical Issues in the Management of Concussion in Football

APPENDIX *SIX*

RESEARCH HIGHER DEGREE STUDENTS 2012

UQCCR supervisors are shown in bold.

Completions in 2012

Student	Degree	Project	Supervisors
Baumann, Fusun	PhD	Detection of objective markers of disease progression in patients with Motor Neuron Disease (MND)	Professor P McCombe , Dr R Henderson
Birt, John	PhD	Learning and memory in the cerebellum	Dr M Bellingham, Dr J Power, Professor M Lavin
Campbell, Peter	MPhil	Clinical disagreement: its influence on the practice of urology	Dr P McTaggart, Professor F Gardiner
Carty, Michelle	PhD	Neuroanatomical changes under-pinning functional deficits after hypxic-ischaemic injury in the pre-term brain	Dr K Buller , Dr T Bjorkman
Coelho Da Silva Goncalves, Daniela	PhD	Prospective study of the emergency of syndromal and subsyndromal anxiety and depression during cognitive decline	Professor G Byrne , Professor N Pachana
Gianduzzo, Troy	MPhil	Laser Robotic-Assisted Laparoscopic Radical Prostatectomy	Professor F Gardiner , Dr J Yaxley
Gray, Paul	PhD	Neuropathic pain following burn injury: An examination of mechanism and treatment in the pre-clinical model and in the clinical setting	Professor T Cramond, Professor J Lipman , Professor M Smith, Dr P Cabot
Hall, Leanne	PhD	The contribution of dopamine to the regulation of orofacial, limb and trunk control - system or functional specific effects?	Professor P Hodges , Associate Professor S Brauer
Heath, Shiree	PhD	Neurocognitive substrates of naming facilitation in aphasia	Associate Professor David Copland , Dr A Angwin, Dr K McMahon
Ireland, Penelope	PhD	A population-based analysis of development in young Australian children with Achondroplasia	Dr L Johnson, Dr A Zankl , Dr J McGill
Jones, Amanda	PhD	Autoimmunity in schizophrenia	Dr J Greer , Professor M Pender, Associate Professor B Mowry
Khlif, Mohamed	PhD	Multi-channel time-frequency analysis for EEG neonatal seizure characterization	Professor P Colditz , Dr A Ghasem , Professor B Boashash
Lim, Yi Chieh (Ernie)	PhD	Targetting gliomas'ES cells as a potential therapy for this tumor	Professor M Lavin , Dr R Woods
Mok, Kwai	PhD	Evaluation of a problem-based learning curriculum in speech and hearing sciences: Student perceptions and critical thinking	Professor B Dodd , Professor T Whitehall
Muller, Diane	PhD	Neuropathological and Neurophysiological Studies of the Central Nervous System of mice with Atypical Experimental Autoimmune Encephalomyelitis	Dr J Greer , Professor M Pender
Nguyen, Phan	PhD	Optical biopsy in lung medicine broncoscopy	Dr D Fielding, Associate Professor C Farah , Dr I Masters
Patel, Bhavik	MPhil	Infections in hospitalized burns patients	Professor D Paterson , Professor J Lipman , Dr J Paratz, Dr J Roberts
Patel, Jatin	PhD	Thyroid hormone transport in placenta	Dr Kerry Richard, Professor N Fisk , Dr Nathan Subramaniam
Schmid, Annina	PhD	Proximal and central pain mechanisms involved in carpal tunnel syndrome	Dr M Coppieters, Professor E McLachlan, Professor P Hodges , Dr M Ruitenberg
Spearing, Natalie	PhD	A comparison of personal injury motor vehicle insurance schemes in Australia and their impact on health outcomes	Professor L Connelly, Professor P Hodges
Stubbs, Narelle	PhD	Epaxial musculature and its relationship with back pain in the horse	Dr C McGowan, Professor P Hodges

Enrolments in 2012

Student	Degree	Project Title	Supervisors	Commence Date
Airey, Caroline	PhD	The CMAP scan in Motor Neuron Disease and Peripheral Neuropathy as a marker of early disease and disease progression	Professor P McCombe , Professor R Henderson	21/05/2012
Allen, Kristine	Mphil	Barriers to early detection of oral cancer: perceptions and experience of patients and healthcare providers	Associate Professor C Farah , Dr P Ford	01/05/2012
Alruwaili, Ashwag	PhD	The use of magnetic resonance imagining (MRI) to measure the rate of loss of upper motor neurons in amyotrophic sclerosis	Professor P McCombe	01/04/2012
Babbitt, Edna	PhD	Investigations into Intensive Comprehensive Aphasia Programs (ICAPs)	Professor L Worrall, Professor L Cherney, Associate Professor D Copland	01/07/2012
Bell, Jack	PhD	Identifying and overcoming barriers to the appropriate nutritional support of hip fracture patients	Associate Professor J Bauer, Professor S Capra	24/02/2012
Betoul, Baz	PhD	Sequencing based identification of skeletal dysplasia genes	Professor M Brown, Associate Professor E Duncan , Professor B Gardiner	17/07/2012
Bhatia, Nirav	Mphil	Efficacy of VELscope in clinical practice and a histopathological correlation with lichenoid lesions	Associate Professor C Farah , Dr M Matias	01/05/2012
Byrom, Lisa	Mphil	Influence of pregnancy on prognosis of melanoma	Associate Professor K Khosrotehrani , Professor A Green	15/03/2012
Caesar, Rebecca	PhD	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants	Professor R Boyd, Professor P Colditz	13/04/2012
Currie, Sean	Mphil	Alcohol-containing mouthwashes: Cellular and molecular changes	Associate Professor C Farah , Dr A Dalley	01/05/2012
Dignam, Jade	PhD	Investigating the effect of intensity of aphasia therapy on language outcomes in people with aphasia.	Associate Professor D Copland , Dr A Rodriguez	20/02/2012
Dingwall, Steven	PhD	Generation of induced pluripotent stem cells from ataxia-telangiectasia patients	Professor M Lavin	16/04/2012
Economou, Caleb	PhD	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy	Dr J Roberts, Dr B Richards, Professor J Lipman	29/11/2012
Elgueta Cancino, Edith	MPhil	Changes in cortex representation of multifidus provoked by different types of motor training of the lumbar paraspinal muscles	Professor P Hodges , Dr S Schabrun	18/07/2012
Erskine, Holly	PhD	The epidemiology of conduct disorder and implications for interventions	Dr J Scott , Professor H Whiteford	24/05/2012
George, Joanne	PhD	Prediction of motor outcomes based on early brain structure	Professor R Boyd, Professor P Colditz , Associate Professor S Rose	22/06/2012
Hale, Kelli	PhD	Novel dietetic interventions: can they deliver better outcomes when compared to conventional approaches in community-dwelling adults	Professor S Capra , Associate Professor J Bauer	26/03/2012
Iyer, Kartik	PhD	EEG signatures of recovery from post-natal hypoxia	Associate Professor M Breakspear, Dr S Vanhatalo , Dr S Finnigan	26/03/2012
Johnson, Stephanie	PhD	Evaluating the efficacy of next generation DNA sequencing in the diagnosis of disorders of beta cell function	Associate Professor E Duncan , Dr L Conwell, Professor D Venter, Dr M Harris	01/02/2012
Kutasovic, Jamie Rose	PhD	Investigating the role of E-cadherin in breast cancer development and progression to metastasis	Dr P Simpson , Dr G Chenevix-Trench, Professor S Lakhani , Dr A Reed	07/02/2012
Lalla, Yastira	MPhil	A clinical trial of the Identafi using conventional white light examinations and VELscope as controls and use of the Identafi in a General Dental Practice setting	Associate Professor C Farah , Dr M Matias	01/05/2012
Layeghy, Siamak	PhD	Fetal movement detection and classification	Professor P Colditz , Professor B Boashash	26/03/2012

Student	Degree	Project Title	Supervisors	Commence Date
Marquess, 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 Yakob, Professor D Paterson , Professor T Riley	27/02/2012
Matusiak, Krsitine	MPhil	Periconception weight loss: what are the effects on the HPA axis in the infant?	Professor L Callaway, Dr M Dekker	02/10/2012
Morphett, Kylie	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 C Gartner	12/03/2012
Northwood, Korinne	PhD	Investigation of genetic and epigenetic regulation of non-coding RNAs in metastatic breast cancer	Professor M Brown, Professor S Lakhani	11/07/2012
Quek, Hazel	PhD	Characterisation of novel pathways involved in the cellular responses to cytosolic DNA	Dr T Roberts , Professor M Lavin	13/02/2012
Raghavendra, Ashwini	PhD	Studying mammary epithelial lineage differentiation and breast cancer predisposition using inducible pluripotent stem cell technology	Professor S Lakhani , Dr G Chenevix-Trench, Dr J Saunus , Ms C Smart	06/01/2012
Sahama, Ishani	PhD	Investigating connectivity and neuroinflammation within corticomotor networks in ataxia-telangiectasia: Improving our understanding of the clinical phenotype	Associate Professor S Rose , Professor M Lavin	26/03/2012
Sardesai, Varda	PhD	Comparison of the differentiation potential of primary and pluripotent stem cell-derived mesenchymal stem cells in vitro and in vivo	Professor N Fisk , Dr R Pelekanos	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
Schleiger, Emma	PhD	Ameliorating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals	Dr S Finnigan	03/04/2012
Staneva, Aleksandra Atanasova	PhD	Mothering style and its association with delivery outcome	Dr F Bogossian, Dr M Pritchard , Dr A Wittkowski	02/10/2012
Thomas, Georgia	PhD	Pre-surgical mapping of language in patients with brain tumours.	Associate Professor D Copland , Mrs E Finch	12/03/2012
Tsao, Henry	MPhil	Unravelling plasticity of sensorimotor pathways of the basal nuclei in children with cerebral palsy	Associate Professor S Rose , Dr R Boyd	06/01/2012
Vu, An	Mphil	Identafi: a retrospective diagnostic criteria	Associate Professor C Farah , Dr M Matias	01/05/2012
Wailan, Alexander	PhD	Genome and plasmid characteristics of NDM-1 and OXA181 producing Enterobacteriaceae	Dr H Sidjabat , Professor D Paterson	13/03/2012
Wright, Annaliesa	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	Supervisors
Abbey, 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
Abdul Majeed, Ahmad	PhD	Alterations in Gene Expression during the Early Stages of Oral Carcinogenesis	Associate Professor C Farah , Dr A Dalley
Adnan, Syamhanin	PhD	Improving Antibiotic Use in Critically Ill and Immunocompromised patients	Professor D Paterson , Dr J Roberts
Anchong, Naomi	PhD	Insulin requirements in pregnant women with type 1 diabetes mellitus during late pregnancy and the peripartum period	Professor L Callaway, Dr E Duncan
Awabdy, Doreen	PhD	Neuroprotection and Neuroreceptor Ontogeny in the Developing Brain	Professor P Colditz , Dr P Dodd, Dr K Buller
Barrett, Helen	PhD	Maternal lipids in pregnancy	Professor L Callaway, Dr M Dekker , Dr H McIntyre
Beasley, Shannon	PhD	Detection of objective markers of disease progression in pateints with Motor Neuron Disease (MND)	Dr J Greer , Professor D Pow , Professor M Pender

Student	Degree	Project	Supervisors
Bergin, Michael	PhD	How does the human motor control system adapt to pain?	Dr K Tucker, Professor G Vicenzino, Professor P Hodges
Blum, Stefan	PhD	Pathogenesis of Guillain-Barre syndrome and chronic inflammatory polyradiculoneuropathy	Associate Professor P McCombe, Dr J Greer
Brandenburg, Caitlin	PhD	Development and evaluation of the communicative fitness approach to aphasia intervention	Professor L Worrall Associate Professor D Copland
Cloake, Nancy	PhD	The role of PLP in multiple sclerosis	Dr Judith Greer , Professor M Pender
Crombie, Anthony	MPhil	Primary chemoradiotherapy for oral & oropharyngeal squamous cell carcinoma.	Associate Professor C Farah , Dr M Batstone
Cumin, Michelle	PhD	Nutritional outcomes in preterm infants	Dr B Lingwood , Dr T Donovan, Professor P Colditz
Denny, Kerina	PhD	The Role of C5a in Pathophysiology	Professor S Taylor, Professor L Callaway, Professor P Colditz
Dong, Shiyang	PhD	Heart rate variability for assessment of autonomic nervous system function in neonates	Professor P Colditz, Professor B Boashash, Dr B Lingwood
Dost, Fatima	MPhil	Epithelial dysplasia and future oral malignancy - a Queensland based retrospective study	Associate Professor C Farah , Dr P Ford
Evans, Tracey	PhD	Improving mother and child attachment patterns following preterm birth: An RCT of Prem Triple-P	Dr K Whittingham, Professor R Boyd, Professor P Colditz
Fattahi, Fariba	PhD	Structure and function of the trunk muscles in low back pain	Professor P Hodges
Flanagan, Kieran	PhD	The role of perceptual symbols in the representation of semantic concepts in dementia	Dr A Angwin, Associate Professor David Copland
Francis, Glenn	PhD	Protein expression and molecular profiling using tissue microarrays to predict lymph node status in breast cancer	Associate Professor C Farah , Dr G Beadle
Gildea, Jan	PhD	The activation pattern of trunk and pelvic muscles during loading through the foot in dancers and non-dancers with and without low back pain	Professor P Hodges , Dr J Hides
Harper-Hill, Keely	PhD	Does language processing in individuals with ASD vary as a function of modality under conditions of increased stress?	Associate Professor D Copland , Dr W Arnott, Dr G Woodyatt
Harris, Lisa Jane	PhD	Pre-eclampsia: The early detection of at-risk pregnancies, management and long term implications	Professor M Mitchell , Professor L Callaway
Heazlewood, Celena	PhD	Neuronal differentiation potential of mesenchymal stem cells and their use in animal models of neurological disease	Professor M Atkinson, Dr G Brooke, Professor N Fisk
Hemsley, Gayle	PhD	Language learning outcomes in early sequential bilinguals	Professor B Dodd, Dr A Holm
Herd, Michael	PhD	Efficacy of Prem Triple P as an intervention to support families of very preterm infants	Dr K Whittingham, Dr R Boyd, Professor P Colditz
Higgs, Crystal	PhD	The role of vesicular glutamate and GABA transporters in Alzheimer's disease	Professor B Dodd , Dr R Tannenberg, Professor G Byrne
Jessri, Maryam	PhD	Cancerous & precancerous lesions of oral cavity and comparisons of their genetic profile in young and old patients: MMR genes	Associate Professor C Farah, Dr A Dalley
Johannes Kerbler, Georg Martin	PhD	Regulation for p75-mediated neurodegeneration in the cholinergic basal forebrain	Professor E Coulson, Associate Professor S Rose
Kamolvit, Witchuda	PhD	Carbapenem resistance in commonly encountered Gram negative bacilli	Professor D Paterson, Dr H Sidjabat
Karayannis, Nicholas	PhD	In influence of motor control, pain and psychological factors on low back pain classification	Professor P Hodges , Professor G Jull
Kim, Min Young	PhD	Myocardial development in the preterm piglet	Dr B Lingwood , Dr A Boyce, Dr K Gibson
Kong, Fiona Yin Mei	PhD	Novel approaches to the surveillance of healthcare acquired infections	Dr A Clements, Professor D Paterson , Professor M Whitby
Lai, Foon	PhD	Occurence and fate of illicit drugs in Australian sewage treatment work	Professor J Mueller, Dr C Gartner , Dr C Ort
Lazarus, Syndia	PhD	Gene mapping in skeletal dysplasias	Dr E Duncan, Dr A Pettit, Professor A Zankl
Lee, Kevin	PhD	Metabolic and neuroendocrine profile of amyotrophic lateral sclerosis mouse models	Professor C Chen, Dr S Ngo , Dr M Bellingham

Student	Degree	Project	Supervisors
Lee, Linda-Joy	PhD	Motor control of the thorax and integration to the lumbopelvic region	Professor P Hodges , Dr M Coppieters, Associate Professor K Khan
Legrand, Julien	PhD	Mesenchymal-Epidermal interactions in skin wound regeneration	Associate Professor K Khosrotehrani, Professor N Fisk
Leveque, Lucie	PhD	Auto-immunity and allogenic chimerism acquired during pregnancy	Associate Professor K Khosrotehrani
MA, Norman	MPhil	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions	Dr T Bjorkman, Professor P Colditz , Professor W Craig
McCarthy, Kate	PhD	Pseudomonas aeruginosa bloodstream infections: Clinical and molecular epidemiology, antibiotic resistance mechanisms, treatment and outcome	Professor D Paterson
McDonald, Cameron	PhD	The effect of fish oil, exercise and other nutrition factors on lean mass and total body weight in post-treatment breast cancer patients	Associate Professor J Bauer, Professor S Capra
McRae, Prudence	MPhil	Identifying interdisciplinary care needs in older surgical patients	Professor A Mudge, Professor P Walker , Professor M Peel
Miller, Stephanie	PhD	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury	Dr T Bjorkman, Professor D Pow
Mills, Natalie	PhD	The role of cytokines in depression and cognition in adolescents	Professor N Wray, Professor M Wright, Dr J Scott
Momeny, Majid	PhD	Identification of the roles of HER-family receptors in breast cancer metastasis to brain	Professor S Lakhani, Professor G Rice, Professor J Saunus
Moore, Kelsey	MPhil	The treatment experience and support needs of oral cancer patients and their caregivers: quality of life implications and recommendations of multidisciplinary approaches to treatment	Dr P Ford, Associate Professor C Farah
Murphy, Jenifer	PhD	Treatment-resistant depression	Associate Professor G Byrne , Associate Professor N Pachana
Nayler, Samuel	PhD	Ataxia telangiectasia and induced pluripotent stem cells	Professor M Lavin , Associate Professor E Wolvetang
Odabae, Maryam	PhD	Non-stationary signal processing methods for newborn seizure prediction	Professor P Colditz, Professor B Boashash, Mr S Vanhatalo
Omidvarnia, Amir	PhD	EEG background abnormalities: Analysis and classifications	Professor P Colditz, Dr M Mesbah, Professor B Boashash
Paul, Razan	PhD	A semantic and collaborative knowledge base for clinical and biological information	Professor J Hunter, Professor A Zankl , Professor T Groza
Pannek, Kerstin	PhD	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain	Associate Professor S Rose, Professor P Colditz
Peiris, Hassendrini	PhD	The role of myostatin in the placenta	Professor M Mitchell
Poortvliet, Peter	PhD	Discovering the neuromuscular mechanisms behind movement changes with pain	Dr K Tucker, Professor P Hodges
Ramesh, Krishnan Narayanan	PhD	Genomic associated studies in MND	Dr R Wallace, Professor P McCombe
Rawlings, Alicia	PhD	The modulation of adult new word learning by dopamine	Associate Professor D Copland , Dr K McMahon
Reinebrant, Hanna	PhD	The central serotonergic system in the preterm neonate following hypoxic-ischemic brain injury	Dr K Buller, Professor P Colditz
Roberts, Matthew	MPhil	Putative biomarkers for early detection of Prostate Cancer	Professor F Gardiner , Dr H Schirra
Robertus, Linda	PhD	The epidemiology of tuberculosis in Queensland as it relates to strategies to prevent transmission, particularly in indigenous Australians	Professor D Paterson
Rogers, Benjamin	PhD	Clinical, epidemiological and molecular characteristics of E.coli (Escherichia coli) infection and its antimicrobial resistance	Professor D Paterson, Professor T Walsh, Dr Hanna Sidjabat
Roxbury, Tracy	PhD	Neurophysiological markers of language recovery in acute stroke.	Associate Professor D Copland , Dr K McMahon

Student	Degree	Project	Supervisors
Sa Ariwijaya, Mohd Shazrul	PhD	Substance abuse: A correlation between DNA damage to ageing	Professor M Lavin , Dr M Gatei
Sam, Sonia	PhD	Cardiovascular factors associated with poor outcome in preterm infants	Dr B Lingwood, Professor P Colditz
Sauer, Evan	PhD	Study of Potential Therapeutic Agents in Multiple Sclerosis	Dr J Greer
Seppanen, Elke	PhD	Fetal microchimerism in maternal tissue repair	Professor N Fisk, Associate Professor K Khosrotehrani
Sheikh, Nabeel	PhD	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke	Dr S Finnigan , A Wong, S Read
Sindi, Ikhlas	PhD	Disruption of nerve-cell connections in Alzheimer's disease through the assay of the trans-synaptic proteins: neurexins and neuroligins	Professor G Byrne , Dr R Tannenberg, Dr P Dodd
Sohn, Soo Han	MPhil	Energy drink consumption patterns among medical students	Professor W Hall, Associate Professor J Lucke, Dr B Partridge
Stafford, Ryan	PhD	Is motor recovery related in clinical change	Professor P Hodges , Professor J Ashton Miller
Stewart, Romal	PhD	A cellular model to investigate the role of ATM in the nervous system	Professor M Lavin , Dr S Kozlov
Tattersall, Timothy	PhD	Neural mechanisms that underlie emotional memory formation and extinction	Professor P Sah, Professor G Byrne , Dr F Windels
Tseng, Hsu-Wen	PhD	Novel treatment approaches to prevent joint fusion in ankylosing spondylitis	Professor G Thomas, Dr A Pettit , Dr M Brown
Van den Hoorn, Wolbert	PhD	Mechanisms underlying the coordinated an dysfunction of muscles used for breathing and postural tasks	Professor P Hodges , Professor J van Dieen
Van Hal, Sebastian	PhD	Associations between Stphylococcus aureas and the clinical outcomes in bacteremic patients	Professor D Paterson
Van Hees, Sophia	PhD	Brain mechanisms of language treatment post-stroke	Associate Professor D Copland , Dr A Angwin, Dr K McMahon
Vargas Calderon, Ana	PhD	Mechanisms of metastases in lobular carcinomas of breast	Professor S Lakhani, Dr P Simpson
Vaska, Vikram	PhD	Clinical, health economic, epidemiologic and molecular epidemiologic and diagnostic aspects of staphylococcus aureus infections in Queensland	Professor D Paterson, Dr G Nimmo
Wallace, Angela	PhD	Epidemiological modelling and economic evaluation of tobacco control policies for setting priorities in the total and Indigenous population of Australia	Professor J Barendregt, Professor E Theo, Professor W Hall
Williams, Rebecca	PhD	The role of the medial temporal lobes in memory and the validation of diffusion functional magnetic resonance imaging in functional brain imaging	Dr J Hocking , Professor D Reuters
Williams, Julian	PhD	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection	Professor J Lipman, Professor D Paterson
Wixey, Julie	PhD	The role of the seretonin transporter (SERT) after hypoxic-ischemic brain injury in the preterm neonate	Dr K Buller, Dr T Bjorkman
Yamada, Miko	PhD	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxiAssociate ischaemia-injured neonatal brain	Associate Professor G Gobe, Professor D Johnson, Professor P Colditz
Yeates, Sarah	PhD	Addiction neuroscience meets alcohol policy: emergent meaning in discoursed about alcohol, the brain and behaviour and their implications for ethical communication and evidence based policy for harm reduction	Professor J Leach, Professor W Hall, Associate Professor J Lucke
Yeo, Jie Abrey	PhD	The role of ATM in neurodegeneration and transcription regulation in the nervous system of animal models	Professor M Lavin , Professor J Becherel, Dr S Kozlov
Ziaimatin, Hasti	PhD	A semantic and collaborative knowledge base for clinical and biological information	Professor J Hunter, Dr Andreas Zankl , Professor T Groza
Zowawi, Hosam	PhD	The prevalence of metallo-beta-lactamse producing enterobacteriaceae, Pareuginosa, Acinetobacter spp in tertiary and academic healthcare centres in Saudi Arabia	Professor D Paterson, Dr H Sidjabat

APPENDIX *SEVEN*

CLINICAL TRIALS 2012

UQCCR is actively involved in Investigator driven Clinical research. In 2012 we hosted:

Clinical Trial	Chief Investigator/s
<p>“Randomised Study of Robotic and Open Prostatectomy”: The purpose of this study is to evaluate these procedures in terms of clinical and oncological parameters, psychosocial aspects and costs to both individuals and the health system.</p> <p>Recruitment began October 2010 to date a total number of 218 patients have been Randomised. The study will continue into 2013.</p> <p>“A Double Blind, Placebo–controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Receiving Demosumab for bone loss due to Androgen-Deprivation Therapy”. Recruitment began 2009 study to continue in 2013.</p> <p>Prevail: “A Multinational Phase 3, Randomised, Double –Blind, Placebo-controlled efficacy and safety study of oral MDV3100 in Chemotherapy”- Naive Patients with Progressive Metastatic Prostate Cancer who have failed Androgen Deprivation therapy. Recruitment began 2011. Two patients successfully randomised: recruitment closed and study competed mid 2012.</p> <p>Early Detection Study: Developing a non-invasive test for Prostate Cancer detection. Researchers have employed PCR, ELISA, MALDI-TOF and metabonomic spectroscopy to discriminate cancer from non-cancer. Investigator driven long term study.</p>	<p>Professor Robert ‘Frank’ Gardiner (Principle Investigator).</p> <p>Dr Geoff Coughlin (Sub-investigator), Dr John Yaxley (Sub-investigator).</p> <p>Dr Alison Hadley Med Oncologist (Sub-investigator).</p>
<p>“A Multinational, Multicenter, Randomized, Double-Blind, parallel-group, Placebo-controlled study of the effect on Cognitive performance, Safety, and Tolerability of SAR110894D at the doses of 0.5 mg, 2 mg, and 5 mg/day for 24 weeks in patients with mild to moderate Alzheimer's Disease on stable Donepezil therapy”.</p>	<p>Professor Gerard Byrne, Vicki Naumann, Liz Arnold and Lyn Isabel.</p>
<p>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. Behavioural 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.</p>	<p>A/Professor David Copland, Alicia Rawlings, (PhD candidate), Dr Katie McMahon, Dr Anna MacDonald, Dr Emma Finch, Professor Peter Silburn.</p>
<p>Improving diagnostic methods of anxiety and depression in Parkinson's disease”: Clinical characteristics and neural markers. Defining the phenotype of anxiety and depression in Parkinson's disease (PD). Investigating early markers for anxiety in PD using psycholinguistic (affective priming) paradigms and imaging (electroencephalography, EEG). Recruitment began in January 2010, and has continued throughout 2012. The study will continue in 2013. Number recruited: 132.</p>	<p>Dr Nadeeka Dissanayaka, Professor Peter Silburn, A/Prof John O’Sullivan, Professor Gerard Byrne, Dr Rodney Marsh, A/Prof David Copland, Dr Anthony Angwin, A/Prof George Mellick, Students: Tiffany Au (BSc Honours student/ Vacation scholar), Elizabeth Toby (Doctorate in Psychology student), Research Assistants: Hannah Reinebrant, Alicia Rawlings.</p>
<p>Neural basis of cognitive deficits in Parkinson's disease. This project uses functional brain imaging and eeg to examine the neural mechanisms underpinning 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.</p>	<p>A/Professor David Copland, Dr Katie McMahon, Dr Anthony Angwin, Dr Shiree Heath, Dr Nadeeka Dissanayaka, Peter Bell (honours student), Professor Peter Silburn, Dr John O’Sullivan.</p>

Clinical Trial	Chief Investigator/s
Perspectives and experiences of Parkinson’s disease patients with drug induced impulse control disorders: A qualitative study: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.	Dr Adrian Carter, Dr Nadeeka Dissanayaka, Professor Peter Silburn, A/Professor John O’Sullivan, Professor Wayne Hall, Student: Timothy Leschke (Vacation scholar) Research Assistant: Peter Bell.
Early intervention centred on infant massage performed by the mother in preterm infants: effects on neurodevelopment at the clinical, electrophysiological and neuroradiological level.	Professor Paul Colditz, Dr Simon Finnigan, Associate Professor Stephen Rose, Dr Andrea Guzzetta, Dr M Giulia D’Acunto, Naoni Ngenda, Sonia Sam, Dr Koa Whittingham, Janine Oostenbroek and Penny Love.
Oral Cancer research: Looking at ways to diagnose and treat oral cancer at its earliest stages.	Associate Professor Camille Farah.
Clinical trials looking at the neurophysiological and biomechanical methods in the control of movement and stability of the spine and how this changes when people have pain.	Professor Paul Hodges.
This HELP Study is a Randomised Controlled Trial (RCT) designed to compare the clinical benefits of different feeding intervention programs for children with feeding difficulties and a restricted range of oral intake. The study is targeting 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	Chief Investigator: Dr Pamela Dodrill Research Fellow Qld Children’s Medical Research Institute, Royal Children’s Hospital Co-Investigators: Ms Jeanne Marshall, Research Clinician (QCMRI), Ms Jane Morgan, Research Clinician (QCMRI), Ms Nadine Frederiksen, Research Clinician (QCMRI), Prof Geoff Cleghorn, (Deputy Head of School of Medicine, UQ).
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 2012: 53 subjects.	Tracy Roxbury (PhD candidate), A/Professor David Copland, Dr Katie McMahon, Dr Stephen Read (RBWH), Dr Andrew Wong (RBWH), A/Professor Steve Rose (CSIRO), Dr Rob Henderson (RBWH), Dr Alan Coulthard (RBWH), Ms Angela Dobrick (RBWH), Ms Kate O’Brien (Research Assistant).
DINO 7. Long-term follow-up of children born preterm who received high dose. DHA: the DINO trial follow-up. Prospective, longitudinal follow-up of a randomised controlled, double-blind, five-centre trial.	A/Professor Maria Makrides, Professor Robert Gibson, Professor Lex Doyle, Dr Peter Anderson, Professor Philip Ryan, Dr Carmel Collins.
Primary outcome. General intellectual ability (full scale IQ) at seven years’ corrected age.	Associate Investigators: Professor Karen Simmers, Dr Andrew McPhee, Dr Noel French Dr Scott Morris, Professor Paul Colditz-UQCCR, A/Professor Peter Davis.
Secondary Outcomes. Other cognitive domains to be assessed are attention, memory, executive functioning and visual-spatial perceptual skills Educational progress, behaviour, quality of life, symptoms of asthma and allergy, anthropometrics, body composition and blood pressure will also be assessed.	
Project title: “Quality care for people with dementia in the community: Testing the efficacy of a communication skills training program for professional community based home care workers”. 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: Erin Conway Co investigator: Prof Helen Chenery

APPENDIX *EIGHT*

STAFF LISTING 2012

Centre Director

Professor Murray Mitchell

Theme Leaders

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

Visiting Academics

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Professor Barbara Dodd
Professor Jeffrey Lipman
Professor Eugenie Lumbers
Professor Jesus Rodriguez-Baño
Dr Colin Ades
Dr David Alcorn
Dr Zohreh Aminzadeh Barforou
Dr Tomas Angerth
Dr Ekta Bhutada
Dr Genevieve Birney
Dr Jerry Chan
Dr Mahesh Choolani
Dr Emma Duncan
Dr Xiyong Fan
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Dr Kate Sinclair
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Professor Nicholas Fisk
Professor Frank Bernard Gannon
Professor Wayne Hall
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Professor Martin Lavin
Professor Peter Silburn
Professor Luis Sobrevia
Professor Philip Walker
Professor Andreas Zankl
Associate Professor Keith Ashman
Associate Professor David Copland
Associate Professor Terry Coyne
Associate Professor Christine East
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Dr Tracey Bjorkman
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Dr Vincent Chen
Dr Yen-Shun Chen
Dr Melissa Connell
Dr Erin Conway
Dr Andrew Dalley
Dr David Danon
Dr Marloes Dekker
Dr Nadeeka Dissanayaka
Dr Yvonne Eiby
Dr Simon Finnigan
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Dr Yaniv Gal
Dr Coral Gartner
Dr Judith Greer
Dr Janet Hammill
Dr Janelle Hancock
Dr Danielle Herbert
Dr Julia Hocking
Dr Alison Holm
Dr Charlotte Huber
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Dr Barbara Lingwood
Dr Anna MacDonald
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Dr Mostefa Mesbah
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Dr Rachael Nowak
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Dr Margo Pritchard
Dr Amy Reed
Dr Liza-Jane Raggatt
Dr Tara Roberts
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Dr Edwige Roy
Dr Jennifer Ryan
Dr Carlos Salomon
Dr Jodi Saunus
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Dr Susan Sullivan
Dr Michael Ting
Dr Layne Wright
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Stephanie Bell
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Sonia Dann
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