

# 2013 UQCCR ANNUAL REPORT

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UNIVERSITY OF QUEENSLAND  
CENTRE FOR CLINICAL RESEARCH



THE UNIVERSITY  
OF QUEENSLAND  
AUSTRALIA

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## Message from the CENTRE DIRECTOR

I am very proud to present this report on what has been another year of success for UQCCR.

We have built upon solid foundations to firmly position the Centre as a major contributor to the vibrancy of UQ's Herston Campus, a major translational hub and clinical landmark. And we have accomplished this with the support and energy of our many collaborations and cooperative ventures.

This year our Annual Report focuses on 'The Power of Partnerships' and highlights just some of the impact that UQCCR is achieving with partners throughout Queensland, Australia and the world.

Issues arising in Health are often multifaceted and call for a team of clinicians or scientists to put their heads together and solve. Not only from the one organisation, but also from various Centres, Institutes or Universities, and across more than one discipline.

Individually, we have the capability to make a big difference, but collectively we have the power to really transform lives. Funding from the community, government and industry sectors makes this possible. For example:

Professors Paul Colditz and Boualem Boashash received \$1 million from the Qatar National Research Fund for their project, "Localisation of EEG Abnormalities for Improving Brain Monitoring of Newborn Babies at Risk of Brain Injury using a multichannel time-frequency signal processing approach".

Funding of \$28 million over seven years was approved for the ARC Centre of Excellence for the Dynamics of Language – an initiative led by Professor Nicholas Evans at Australian National University, with Professor Helen Chenery, Director of the Asia-Pacific Centre for Neuromodulation (APCN) significantly involved as one of the project's Chief Investigators.

This will accelerate APCN's program of research into computational language analyses, both for people with Parkinson's and Alzheimer's disease.

Disseminating the new knowledge created at UQCCR is also critical to our success.

In 2013, UQCCR produced 413 publications, supported 143 Research Higher Degree and Honours students and graduated another 26 students.

We can be very proud of the calibre of our students, as demonstrated by the success of ascending research stars like Hosam Zowawi, Lisa Byrom, Carlos Salomon, and Ben Rogers (read why in the Highlights on page 9). Thank you to all our students for your contribution in 2013 to UQCCR's success.

The Herston Imaging Research Facility (HIRF), on track to open in September 2014, is strengthening the ties between UQ, RBWH, QIMR Berghofer Medical Research Institute, and QUT. The HIRF will create more opportunities for UQCCR patients to become our partners in the research transforming clinical care. You can read more about this exciting development on page 38.

We congratulate the Centre for Clinical Diagnostics (CCD) team on becoming NATA-accredited. This outcome is the culmination of two years' tremendous effort and enters the CCD onto a very short list of accredited research facilities in Australia. In fact, the CCD is the only 100 percent pure research facility accredited in Australia, affording researchers greater confidence in their results, knowing that the technical processes meet world-recognised standards. Just how valuable this service can be is described on page 28.

Congratulations are also extended to UQCCR individual staff members whose efforts have been celebrated at the highest levels.

Professor Murray Mitchell

Professor Peter Silburn AM was appointed a Member of the Order of Australia in the 2013 Australia Day Honours, in recognition of his 'significant service to medicine as a neurologist, particularly in the treatment of neurodegenerative diseases.'

Postdoctoral Research Fellow Dr Bradley Partridge was named one of 11 Queensland Tall Poppy Award winners for 2013 by the Australian Institute of Policy and Science. His research focuses on the use of 'smart drugs', said to be able to enhance intelligence, memory or attention spans.

Within UQCCR we formally recognised the efforts of six outstanding researchers at the UQCCR Shimadzu Awards night: Dr Hanna Sidjabat, Dr Peter Simpson, Dr Adrian Carter, Dr Nadeeka Dissanayaka, Stephanie Miller and Hassendrini Peiris.

Finally, I would like to acknowledge and thank personally the entire UQCCR staff – research, clinical, academic and professional – for their many 'quiet' achievements and their unwavering support during a tough year of significant changes for UQ, including UQCCR.

Everyone has shown deep commitment by handling the challenges and additional workload with the same quality and dedication as previous years.

The pages of this report tell the stories of our people: the teams and their leaders on the quest for changing lives through patient-orientated research. It is an album of mere snapshots, and I hope the stories spark your curiosity and inspire your belief in a better world.

Thank you for your continued interest, support and confidence in UQCCR to achieve it.






# HIGHLIGHTS *of 2013*

NATA ACCREDITATION

UQCCR SHIMADZU AWARDS NIGHT

MEMBER OF THE ORDER OF AUSTRALIA

FUNDING SUCCESS

TALL POPPY AWARD

HOT PUBLICATIONS

STUDENT SUCCESS





Stephanie Miller receiving the Siemens Outstanding Student Award

### UQCCR Shimadzu Awards Night

The UQCCR Shimadzu Awards Night was held on Friday 18 November 2013 at Customs House in Brisbane. The cocktail event, which could not have gone ahead without our major supporter Shimadzu, saw six outstanding UQCCR researchers receive various awards in recognition of their achievements. Guest speaker, Dr Virginia Barbour (Editorial Director for PLOS) gave an inspiring presentation titled 'The power to change publishing is in your hands'.



Mass spectrometry equipment at the NATA accredited Centre for Clinical Diagnostics

### NATA Accreditation

The Centre for Clinical Diagnostics (CCD) received formal accreditation from the National Association of Testing Authorities (NATA) in 2013. This outcome is the culmination of two years' work by a dedicated team at UQCCR and enters CCD onto a very short list of accredited research facilities in Australia.

The CCD is the only 100 percent pure research facility accredited in Australia, and gives researchers the assurance that their technical processes meet world-recognised standards (read more page 28).

### Member of the Order of Australia

UQCCR researcher Professor Peter Silburn was appointed a Member of the Order of Australia (AM) in the 2013 Australia Day Honours. The world-leading neurologist was honoured for his substantial service to medicine, particularly in the treatment of neurodegenerative disease (read more page 14).



Dr Bradley Partridge (left) with The Hon. Ian Walker MP, Minister for Science, Information Technology, Innovation and the Arts

### Tall Poppy Award

Dr Bradley Partridge, Postdoctoral Research Fellow at UQCCR, was 1 of 11 Queensland Tall Poppy Award winners for 2013. Dr Partridge's research focuses on the use of 'smart drugs', which are said to be able to enhance intelligence, memory or attention spans (read more page 13).



Professor Helen Chenery, Director of the Asia-Pacific Centre for Neuromodulation

### Funding Success

Professor Helen Chenery, Director of the Asia-Pacific Centre for Neuromodulation (APCN) at UQCCR, is a Chief Investigator for the new Centre of Excellence for the Dynamics of Language. In 2013 the ARC announced it would fully fund this project, awarding \$28M over seven years.

Led by Professor Nicholas Evans at ANU, the new Centre of Excellence will accelerate APCN's research into computational language analyses for people with Parkinson's and Alzheimer's disease.



Hosam M. Zowawi presenting at the i2 Institute's Annual Conference in Saudi Arabia

### Student Success

An inventive diagnostic tool that can rapidly profile antibiotic resistant bacteria was created in 2013 by PhD student Hosam Zowawi (Paterson group). The invention of this tool determined Mr Zowawi's selection to participate in the i2 Institute for Imagination and Ingenuity Fellowship program. On completion of the training program, Mr Zowawi presented his diagnostic tool at the i2 Institute's Annual Conference in Riyadh, Saudi Arabia.

Mr Zowawi has also been shortlisted for the prestigious Rolex Award for Enterprise as a Young Laureate and travelled to Delhi, India for an interview at the end of 2013. Five award recipients will be announced late in 2014 during an awards ceremony.

Lisa Byrom (MPhil student, Khosrotehrani group) won the best clinical poster award at the Global Controversies and Advances in Skin Cancer meeting in Brisbane for her poster titled "the influence of pregnancy on prognosis of melanoma: a systematic review".

Dr Carlos Salomon (Mitchell/Rice group) won an Excellence in Doctoral Thesis award for the best PhD thesis from the Pontificia Universidad Católica de Chile (where Dr Salomon completed his PhD and spent his final year at UQCCR on a student exchange program).

Ben Rogers (PhD student, Paterson group) was the winner of the 2013 Royal Brisbane and Women's Hospital Symposium Best Clinical Science Oral Abstract presentation.



Professor Sunil Lakhani and Dr Chanel Smart

### Hot Publications

UQCCR researchers had several prestigious publications during 2013. Professor Sunil Lakhani's study 'Multiple independent variants at the TERT locus are associated with telomere length and risks of breast and ovarian cancer' was published in *Nature Genetics* and 'Signatures of mutational processes in human cancer' appeared in *Nature*.

Professor David Paterson published 'Clinical epidemiology of the global expansion of *Klebsiella pneumoniae* carbapenemases' in *The Lancet Infectious Diseases*.

Numerous prominent publications appeared in *PLOS ONE*, including 'Hypoxia-induced changes in the bioactivity of cytotrophoblast-derived exosomes' from a team of UQCCR researchers including Professors Murray Mitchell and Greg Rice.

Professor Wayne Hall's study on 'Global burden of disease attributable to illicit drug use and dependence: findings from the Global Burden of Disease Study 2010' was published in *The Lancet* (see Appendix 2: Publications 2013).

LEADING NEUROLOGIST AWARDED AUSTRALIA DAY HONOUR

"SMART DRUGS" RESEARCHER RECEIVES TALL POPPY AWARD

3 AWARDS  
*from 2013*

# SMART DRUGS

## RESEARCHER RECEIVES TALL POPPY AWARD

UQCCR POSTDOCTORAL RESEARCH FELLOW  
DR BRADLEY PARTRIDGE



“THERE HAS BEEN SO MUCH  
HYPE ABOUT THE POTENTIAL  
USE OF PRESCRIPTION DRUGS  
TO MAKE ALL OF US SMARTER,  
BE MORE PRODUCTIVE,  
GET BETTER GRADES AND  
GENERALLY ACHIEVE MORE.”

UQCCR Postdoctoral Research Fellow Dr Bradley Partridge is 1 of 11 Queensland Tall Poppy Award winners for 2013.

The Young Tall Poppy Science Awards recognise the achievements of Australia's outstanding young scientific researchers. Award recipients are those who demonstrate great leadership potential and combine world-class research with a passionate commitment to communicating science.

Awarded by the Australian Institute of Policy and Science, winners were announced at a ceremony in Brisbane on Thursday 21 November 2013.

In his research, Dr Partridge is focusing on the use of 'smart drugs', said to be able to enhance intelligence, memory or attention spans.

“There has been so much hype about the potential use of prescription drugs to make all of us smarter, be more productive, get better grades and generally achieve more,” he said.

By asking questions surrounding the prevalence and regulation of these drugs, Dr Partridge hopes to find the best way to manage the promises and perils of using them.

“Our research has found that the reality doesn't live up to the hype. Any improvements to healthy cognition are mild at best, and there may be significant health risks to using prescription drugs for non-medical reasons.”

“The best way to improve cognition seems to be through a healthy diet, exercise, and adequate sleep.”

Dr Partridge was among five Tall Poppy Award recipients in 2013 from The University of Queensland. UQ Deputy Vice-Chancellor (Research) Professor Max Lu said the winners represent the young and brightest of the UQ research community.

The Queensland Tall Poppy Campaign is supported by three key partners; The University of Queensland, Griffith University and the Queensland University of Technology.





## Leading Neurologist AWARDED AUSTRALIA DAY HONOUR

PROFESSOR SILBURN, LEAD CLINICIAN  
FOR THE ASIA-PACIFIC CENTRE FOR NEUROMODULATION

In 2013, UQCCR applauded world-leading neurologist Professor Peter Silburn, who was appointed a Member of the Order of Australia (AM) in the 2013 Australia Day Honours.

Professor Silburn, Lead Clinician for the Asia-Pacific Centre for Neuromodulation (a joint initiative between The University of Queensland and St Andrew's War Memorial Hospital) was honoured for his 'significant service to medicine as a neurologist, particularly in the treatment of neurodegenerative diseases.'

Professor Silburn and Associate Professor Terry Coyne form the extraordinary team performing Deep Brain Stimulation (DBS) at St Andrew's War Memorial Hospital, and have performed over 650 DBS surgeries to date.

Faculty of Medicine and Biomedical Sciences Executive Dean Professor Nicholas Fisk congratulated Professor Silburn on his achievement, saying he was highly deserving of the award given his exceptional talent and drive.

"He combines innovative technology and research with clinical practice to develop novel treatments, not just for Parkinson's but for younger patients with a range of debilitating movement disorders, including Parkinson's disease, Tourette's and dystonia, for whom standard medical therapies are no longer effective," Professor Fisk said.

Professor Silburn said he was greatly touched to receive the Member of the Order of Australia and appreciated the recognition he has received for "really just doing the work".

"The real reward is in helping other people, rather than it being a personal thing for me, and I pay special tribute to my patients and their families for placing their trust in me," Professor Silburn said.

"The award also reflects the contribution of the many talented people I work with, but most especially, the support, love and encouragement from my family," he said.

Associate Professor Terry Coyne performing Deep Brain Stimulation





SUPERBUGS KNOW NO BORDERS

WORKING TOGETHER TO IDENTIFY PREGNANT WOMEN AT RISK



4

GLOBAL  
*Impact*

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PARTNERSHIP PROMOTES  
THE EXCHANGE OF GREAT IDEAS



# SUPERBUGS KNOW NO BORDERS

UQCCR PhD Candidate Hosam M. Zowawi says the rise of superbugs (antibiotic resistant bacteria) is of global concern, with the Middle East Gulf States facing a rapid growth due to the misuse of antibiotics, inadequate hygiene practices in hospitals and medical tourism.

**UQCCR Researchers:** Mr Hosam Zowawi, Professor David Paterson  
**Partner Organisations:** King Saud bin AbdulAziz University for Health Science, National Guard-Health Affairs, Saudi Arabia; GCC Centre for Infection Control, National Guard-Health Affairs, Saudi Arabia; Department of Microbiology, Collage of Medicine, University of Dammam, Saudi Arabia; Kuwait University, Kuwait; Royal Hospital, Oman; Samlaniya Medical Complex, Bahrain; Hamad Medical Cooperation, Qatar; Zaid Military Hospital, United Arab of Emirates; International Extended Care Center, Jeddah, Saudi Arabia; King Aabdullah University for Science and Technology (KAUST), Saudi Arabia; Ain Shams University, Cairo, Egypt; Clinical Microbiology department, Mater Hospital, Brisbane, Australia; Queensland Paediatric Infectious Diseases Laboratory, Royal Children's Hospital, Brisbane, Australia.  
**Email:** Hosam Zowawi (h.zowawi@uq.edu.au); Professor David Paterson (d.paterson1@uq.edu.au)

Subway line in Dubai

In an era where we are seeing the rapid emergence of superbugs, how we tackle this global epidemic is paramount.

UQCCR PhD Candidate Hosam M. Zowawi says the rise of superbugs (antibiotic resistant bacteria) is of global concern, with the Middle East Gulf States facing a rapid growth due to the misuse of antibiotics, inadequate hygiene practices in hospitals and medical tourism.

"The high number of expatriates living and working in the Middle East means there is a greater risk to the rest of the world," Mr Zowawi said.

"This is due to the unintentional spread of infectious diseases that can and is occurring in this region. Without realising it, visitors are transporting antibiotic resistant bacteria back to their home country, and vice versa. In the United Arab Emirates alone, foreigners make up 91 percent of the total population," Mr Zowawi said.

This is exactly what happened to Mr George Bond, a Gold Coast resident who travelled to the United Arab Emirates in 2012 to visit his son and daughter-in-law living in Abu Dhabi. While visiting family members in UAE Mr Bond contracted multiple superbug infections that almost cost him his life.

"At one stage I was told I had about 24 hours to live. The antibiotics being used to treat my infection simply were not working," Mr Bond said.

"Initially my lungs had collapsed, then I believe I had multi-organ failure. After being hospitalised for six weeks in Abu Dhabi, four of which were spent in ICU, somehow I managed to improve enough to get a flight back home to Australia. Once home I was admitted to John Flynn Private Hospital on the Gold Coast where I spent another month. Eventually, a final antibiotic doctors had not yet tried was administered and improved my condition."

## Monitoring the spread of superbugs

Mr Zowawi and his advisor, Professor David Paterson have developed a network of collaborating hospitals and institutes in the Middle East Gulf States to study the spread of superbugs in this region.

This collaboration has allowed researchers to lead the first systematic literature review on antibiotic-resistant bacteria in the Gulf region. A study which found a strain of potentially deadly superbugs – carbapenem-resistant bacteria, which kills up to half of infected patients – has increased up to 90 percent over the past two decades.

The research team are testing bacteria samples received from their collaborators to identify antibiotic resistant strains that are prevalent in the region. This process will also ensure researchers are well informed about emerging superbugs.

To analyse the large number of samples received, Mr Zowawi developed an innovative diagnostic tool that can rapidly profile antibiotic resistant bacteria. This tool will benefit superbug researchers around the world and potentially reduce the spread of superbugs in the future.

"We hope the results of this study will raise awareness and encourage hospitals to implement active surveillance to monitor the emergence and spread of superbugs," Mr Zowawi said.

"Surveillance has been identified by the World Health Organisation as a key factor in combating the spread of antimicrobial resistance."

Mr Zowawi has also teamed up with health activists to tackle the issue of antibiotic misuse – a factor identified in his research to be contributing to the emergence and spread of superbugs.

"We believe the misuse of antibiotics could be the result of a lack of education. Our aim is to increase public awareness about superbugs and the appropriate use of antibiotics by using social media platforms," Mr Zowawi said.

"By limiting the unnecessary use of antibiotics in our communities, we should be able to preserve the value of current antibiotics."





“BY LIMITING THE  
UNNECESSARY USE OF  
ANTIBIOTICS IN OUR  
COMMUNITIES, WE SHOULD  
BE ABLE TO PRESERVE  
THE VALUE OF CURRENT  
ANTIBIOTICS.”



# WORKING TOGETHER TO IDENTIFY PREGNANT WOMEN AT RISK

Global collaboration to help facilitate early antenatal screening within the primary health care system

Preeclampsia, poor fetal growth, preterm birth and gestational diabetes are the most significant complications caused by pregnancy, affecting 15 percent of all pregnancies.

Professor Greg Rice and his team at UQCCR are collaborating with a world leader in Chile to develop early diagnostic tests to identify women at risk of developing complications of pregnancy.

Currently, it is difficult to assess the risk of complications of pregnancy during the first trimester. Problems such as preeclampsia and gestational diabetes are not usually revealed until the third trimester, which means the opportunity to prevent adverse effects is limited.

Of the 130 million babies born around the world each year, a shocking eight million die before their first birthday.

Professor Rice, Deputy Director at UQCCR, said a contributing factor in many of these deaths is poor pregnancy outcome resulting from a complication of pregnancy.

“Such complications can permanently impact on lifelong health and are responsible for the majority of obstetric and children’s diseases and deaths.”

## Understanding early pregnancy events that may lead to complications

To implement preventative measures to help resolve these challenging health issues, Professor Rice is collaborating with Professor Sebastian Illanes, from the University of the Andes in Santiago, Chile.

So far, the research team have found the embryo communicates with the mother during pregnancy by secreting exosomes, which are nano-vesicles generated by cells that contain genetic material and proteins.

“Exosomes play a vital role in the development of the placenta and ensure adequate blood supply to the fetus. Where problems occur, these exosomes fail to ‘talk’ to the mother’s blood vessels,” Professor Rice said.

Armed with this new knowledge, Professor Rice and his team now want to know what is happening during pregnancy when the placental development is compromised – causing conditions such as preeclampsia and preterm birth.

“From the 6th week of pregnancy placental exosomes can be detected in a mother’s blood supply. We can also identify which have come from the placenta and which exosomes are from the mother,” he said.

“Using the mass spectrometry equipment at the Centre for Clinical Diagnostics at UQCCR, our team will examine fetal exosomes in both normal and abnormal placentation. We then hope to identify biomarkers of complications of pregnancy.”

By further increasing their understanding of early pregnancy events that may predispose women to complications of pregnancy, researchers can then develop and deliver to market better tests to identify women at risk.

“Understanding the cause of these complications and their early detection are the first steps in implementing efficacious treatment and improving patient outcome,” Professor Rice said.

“Our goals include developing a molecular predictive diagnostic test for preterm birth, and a tool for predicting gestational diabetes during the first trimester of pregnancy.”

This collaborative approach will help facilitate early antenatal screening within the primary health care system.

Their research is being supported largely through grants from the Ministry of Education, Chile (\$4.7M) and the Chilean Economic Development Agency (\$336k).

**UQCCR Researchers:** Professor Greg Rice, Dr Carlos Salomon, Dr Suchi Sarker, Professor Murray Mitchell

**Partner Organisations:** The University of the Andes, Santiago, Chile

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OF THE 130 MILLION BABIES BORN AROUND THE WORLD EACH YEAR, A SHOCKING

# 8 MILLION DIE

BEFORE THEIR FIRST BIRTHDAY.

APCN BLAZES A TRAIL FOR INNOVATIVE NEUROBIONIC TREATMENTS

NATA ACCREDITATION BRIDGES THE PATHWAY TO PATIENT CARE



# TRANSLATIONAL *Impact*

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PARTNERSHIP FOSTERS INNOVATIVE ENTERPRISE



# APCN BLAZES A TRAIL

## *for innovative Neurobionic Treatments*

“We’re proud to be a partner with UQ in supporting the translational research of APCN. We are committed to clinical excellence in DBS which aligns well with APCN’s focus on improving the health of people with chronic neurological and neuropsychiatric conditions.”  
*Mr Andrew Barron, General Manager, St Andrew’s War Memorial Hospital*

The wellbeing of people living with debilitating neurological conditions such as Parkinson’s disease, relies heavily on the delivery of breakthrough therapies to change their lives.

The Asia-Pacific Centre for Neuromodulation (APCN) is globally engaged and taking the lead in efforts to deliver revolutionary neuromodulation treatments, such as Deep Brain Stimulation (DBS).

Support from local and global industry partners in neurotechnology has been crucial in the successful establishment of APCN - a joint initiative of The University of Queensland and St Andrew’s War Memorial Hospital.

Professor Helen Chenery, Director of APCN, said the Centre is creating new knowledge linked to neuromodulation and promoting the accelerated translation of this knowledge into safe, efficacious and cost-effective health practices to treat patients.

The key strategy of this \$10 million centre is to integrate education, research and clinical care for the greatest human benefit.

This tripartite approach allows health professionals to develop and evaluate new models of organising and delivering care for patients who have received or may receive neuromodulation devices. It will also enable the delivery of advanced neuromodulation treatments that can revolutionise diagnosis, treatment and improve patient and community health outcomes.

“An ambitious goal such as this can only be achieved as a collaborative enterprise,” Professor Chenery said.

### **Fostering Clinical Capability**

Growing the specialist DBS clinical teams in the Asia-Pacific is essential to ensure the expertise of lead Clinicians, Professor Peter Silburn and Associate Professor Terry Coyne, is carried on into the future. To ensure this transpires, APCN has established a DBS Fellowship Program for neurologists, neurosurgeons and neuropsychiatrists who wish to learn more about DBS.

This fellowship program has achieved early success with fellows from Japan and Vietnam having already completed the program. APCN has received growing interest from specialists in the Asia-Pacific region and internationally.

### **Building a powerhouse of translational research partnerships**

To understand the complete ‘service chain’ involved in caring for and treating a patient with a neurological condition with DBS, APCN is collaborating with Enterprise Connect in the Australian Government’s Department of Industry to complete a ‘Mapping the Connections’ project.

The result will be a multi-tiered partnerships map which will highlight the synergies among APCN’s research, clinical and education collaborators. Emerging business opportunities in the Human Bionics industry will also feature.

As one of the world’s top five centres conducting DBS surgery, APCN plays an integral role in educating people in the delivery of DBS therapy. One challenge faced by APCN is to ensure research outcomes are disseminated to patients and referring doctors. To facilitate this translation, APCN is working with State and Commonwealth Health Authorities to help increase the adoption and awareness of DBS therapy.

“CSIRO has also been a great friend of APCN, providing technology and product development skills to develop a mobile application which will help people living with Parkinson’s and a computer-based, clinical decision-support system for health professionals,” Professor Chenery said.

People with treatment-resistant Obsessive Compulsive Disorder (OCD) may soon be the next group of individuals to benefit from DBS. APCN will begin clinical trials for patients with OCD in the first half of 2014. A trial of this significance requires the support of many partners including private hospitals, professional associations, industry, government, regulatory bodies, policy makers and end-users themselves.

“We derive our translational impact from working with our partners and I am thankful for the ongoing support and commitment from all of our research and industry partners and donors,” Professor Chenery said.



Patient receives Deep Brain Stimulation surgery





"Achieving  
NATA accreditation  
confirms that our  
standards are  
world class"

## NATA ACCREDITATION

*bridges the pathway to patient care*

When a mother experiences complications during pregnancy and needs special care to boost the chances of her baby's survival, she and her family should feel safe in the hands of health care professionals.

Knowing when and how to introduce medical interventions is critical knowledge for the team of doctors, midwives and other specialists entrusted with safeguarding the lives of both the baby and its mother.

UQCCR's Centre for Clinical Diagnosis (CDD) also has a role to play.

The CCD develops tests to assess the risk of pregnancy complications earlier. This means earlier intervention may prevent a problem occurring or reduce its severity. The CCD also tests new drugs and procedures to ensure they are safe and effective for mothers and their babies.

### The importance of NATA Accreditation

Meeting the rigorous, international standards demanded by the Australian National Association of Testing Authorities (NATA) this year means the CCD can help more clinical researchers translate their ideas into positive outcomes for patients at all stages of life.

As part of the Queensland Node of the Therapeutic Innovation Australia (TIA), the CCD evaluates and tests new technologies arising from life sciences discoveries, to ensure readiness for submission to regulatory authorities like the Therapeutic Goods Administration Australia and the US Food and Drug Administration.

With these approvals, new drugs, medical devices, procedures and other innovations can reach the patients they are intended to help much sooner, more often with the support of commercial partners.

Professor Greg Rice, member of the TIA-Queensland Node's Executive Committee, said the NATA accreditation had strengthened the CCD's existing partnerships within the health care services and biotechnology sectors, and attracted new ones to its network.

"Achieving NATA accreditation has been paramount for the Centre and confirms that our standards are world class," Professor Rice said.

"With this powerful endorsement we can serve a broader client base and draw in potential academic and industry collaborators who share the vision of our Brisbane-based researchers.

"Commercialising discoveries, particularly innovative therapies to heal and help patients, is a long and complex process. Collaboration is crucial at all stages, but especially when verifying the safety and effectiveness of new compounds and procedures.

"This validation, in turn, can have a significant impact on health care policies and practice, for example in maternity wards and special care nurseries," said Professor Rice.

### Bridging the gap from the lab bench to community health and wellbeing

Maternal health and newborn survival are just two of the challenges the CCD is working with various partners to address.

The Centre's location within the UQCCR, occupying a whole floor and integrating with a dedicated outpatient facility for clinical trials, is a key feature of UQCCR's unique research, development and evaluation portfolio.

In its laboratories, CCD scientists develop, evaluate and deliver new in vitro diagnostics (IVDs): they test the reagents that pathologists will apply in test tubes to detect disease and deficiencies.

Professor Rice said the CCD will look to expanding its range of services and client network.

"We're a vital link between scientists and clinicians, and seeing our efforts bridge the gap between research and improved community health recognised with NATA accreditation is very rewarding."

Infection and immunity researchers at UQCCR are also utilising the CCD facilities to develop mass spectrometry based tests to identify antibiotic resistant bacteria.

THE PERILS OF DRINKING DURING PREGNANCY

COLLABORATION ADVANCES MS RESEARCH

# 6 COMMUNITY *Impact*

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PARTNERSHIP ENCOURAGES COOPERATION

# THE PERILS

OF DRINKING  
DURING PREGNANCY



MANY ARE NOT AWARE OF  
THE DANGERS OF DRINKING  
WHILE PREGNANT, AS  
INADEQUATE INFORMATION  
IS AVAILABLE TO  
PREGNANT WOMAN...

The Collaboration for Alcohol Related Developmental Disorders (CARDD) is working to reduce the prevalence of Fetal Alcohol Spectrum Disorder and improve methods for detecting and treating the disease.

Members of this collaborative network – led by UQCCR researcher Dr Janet Hammill – include health professionals, researchers and service providers from across Queensland.

Significant research into Fetal Alcohol Spectrum Disorder (FASD) has been undertaken and has found prenatal exposure to alcohol can cause irreversible damage to the fetus.

Professor Paul Colditz, neonatologist at UQCCR and member of CARDD said FASD describes a range of disorders caused by alcohol consumption during pregnancy.

"This can include problems with behaviour, impulse control, memory, speech and language development, vision and hearing impairments, and difficulty with judgement and reasoning," Professor Colditz said.

Dr Hammill said many are not aware of the dangers of drinking while pregnant, as inadequate information is available to pregnant women and most alcoholic drinks do not have a warning label.

"Inconsistent preventive messages about FASD have been given to women about alcohol use during pregnancy, despite the present National Guidelines recommending no alcohol use during pregnancy as the safest option," Dr Hammill said.

As part of an awareness campaign to educate all alcohol users, CARDD and The Foundation for Alcohol Research and Education (FARE) organised the Australasian Fetal Alcohol Spectrum Disorders (FASD) Conference: A time to learn, a time to act, which was held in Brisbane on November 19-20, 2013. Conference participants included medical and health professionals, researchers and policy makers.

In the lead up to the conference, a number of events were held around Herston Campus, including a meeting at UQCCR for parents and carers of children with FASD. Run by NOFASD – an organisation delivering support to families living with FASD – parents and carers were given the opportunity to highlight their key issues which were later discussed during the conference.

The UQ School of Medicine also hosted a diagnostic workshop for medical professionals prior to the conference, which was delivered by Professor Elizabeth Elliott, Paediatrics and Child Health at the University of Sydney.

"As a group, we aim to address FASD at every level of community, human service, policy and science. We have formulated a plan which proposes rigorous endeavours for early identification, diagnostic services, supportive interventions, prevention strategies and innovative research," Dr Hammill said.

In Australia, CARDD play a vital role in facilitating partnerships between health professionals, service providers, Governments and the community to reduce the prevalence of FASD and improve the quality of life of individuals and families living with FASD.



# COLLABORATION ADVANCES MS RESEARCH

Living with Multiple Sclerosis (MS) can mean unpredictable episodes of blurred vision, coordination and balance difficulties, memory loss and numbness.

MS can also mean struggling with concentration or finding the right words to express yourself. It can affect problem-solving skills and the ability to judge spatial relations.

It's no wonder that the 1,000 Australians diagnosed with MS every year often describe the news as shocking and scary – especially since there is no cure.

MS is an autoimmune disease that prevents the brain from getting clear messages to the rest of the body.

It's the most common disease of the central nervous system in younger adults, striking just when careers and young families matter most.

UQCCR immunologist Dr Judith Greer has dedicated her career to understanding the causes of MS and looking for new ways to slow down its progression.

Dr Greer is involved with several collaborative initiatives through MS Research Australia (MSRA).

## DNA discovery

The ANZGene Consortium is one such initiative. It aims to identify the genes that influence a person's susceptibility to MS and prompt its progression.

"ANZgene brings together a multidisciplinary team of MS researchers across Australia and New Zealand to share expertise and tissue samples. Pooling our resources in this way makes us more competitive when applying for grants," Dr Greer said.

## Protein performance

Dr Greer is also a member of the Steering Committee for Proteomics of MS, a MSRA major national collaboration investigating the role of proteins in MS. The University of Queensland, the University of Sydney, the University of Adelaide and Sir Charles Gairdner Hospital in Perth are members of this collaboration.

"Our proteomics platform expands upon what researchers have learnt through ANZgene, to identify new proteins that can be targeted for treatments and diagnosis," Dr Greer said.

## Tissue transactions

The MS Research Australia Brain Bank, established in 2010, coordinates the collection and distribution of brain tissue from people with MS for use in research.

"My role as a board member is to help decide which research projects have access to brain tissue samples, which is a vital yet limited resource," Dr Greer said.

Dr Greer's current work investigates the "Functional roles of antibodies in Multiple Sclerosis". Preliminary data from the work of PhD scholar Dianne Muller had suggested antibodies may play a role in determining which part of the brain and spinal cord are targeted in MS. In 2013, Dr Greer completed a MSRA-funded incubator project to gather more information to support this idea. Further funding awarded in 2013 through the NHMRC will now allow the researchers to look more closely at how antibodies contribute to the causes of disease progression.

"We hope to show that these antibodies are pathogenic in people," Dr Greer said.

"If this proves to be true, there's potential to remove the antibodies through immunoadsorption apheresis, a process whereby a machine can absorb out the antibodies that are causing damage."

"This process is already used in treatment of some other autoimmune diseases such as myasthenia gravis, using a device which absorbs out the disease-causing antibodies and delivers the blood back to the donor."

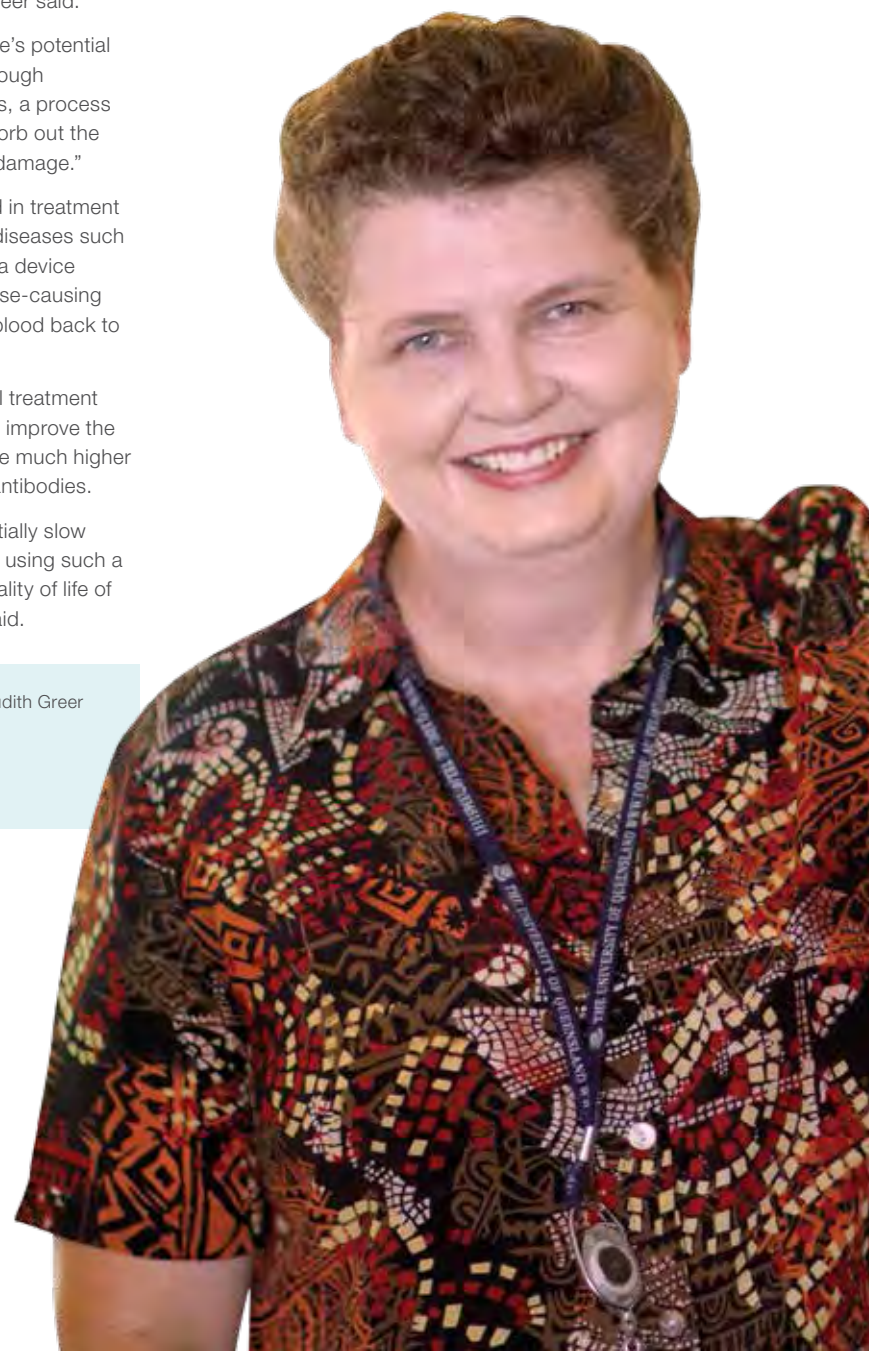
This may not be a successful treatment for all MS cases, but it could improve the condition of people who have much higher than normal levels of these antibodies.

"Importantly, we could potentially slow down the progression of MS using such a process and improve the quality of life of people with MS" Dr Greer said.

**UQCCR Researcher:** Dr Judith Greer

**Partner Organisation:**  
MS Research Australia

**Email:** j.greer@uq.edu.au



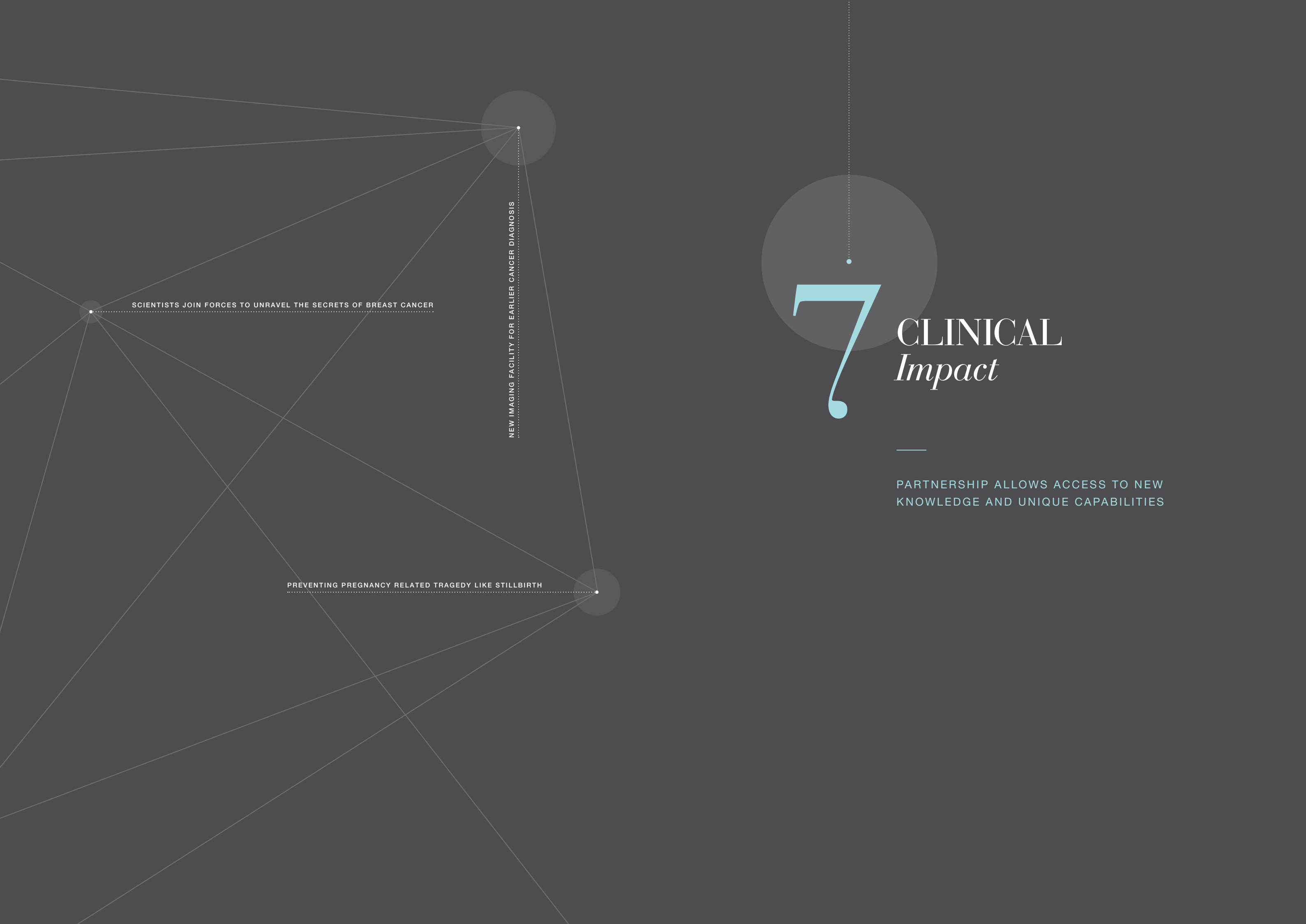
MS IS A CHRONIC  
CONDITION AFFECTING  
AROUND

2m

PEOPLE WORLDWIDE

## THE FACTS

- + It is not fatal but there is no cure and quality of life can diminish dramatically.
- + Rare, severe complications can shorten life but most MS symptoms can be managed and controlled with medications and lifestyle adjustments to maintain a normal life span.
- + Healthy nerves are wrapped in a protective substance called myelin. MS is the breakdown of myelin, creating scars or lesions. Unprotected nerves can't function as they would with properly protected, healthy myelin.
- + This nerve damage done can affect critical thinking and other cognitive skills.
- + MS is estimated to cost Australia more than \$1 billion each year in treatment, out of pocket health expenses, and lost productivity.
- + The value of the care given by family and others is estimated to cost \$145 million per year to replace.



SCIENTISTS JOIN FORCES TO UNRAVEL THE SECRETS OF BREAST CANCER

NEW IMAGING FACILITY FOR EARLIER CANCER DIAGNOSIS

PREVENTING PREGNANCY RELATED TRAGEDY LIKE STILLBIRTH



## CLINICAL *Impact*

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PARTNERSHIP ALLOWS ACCESS TO NEW  
KNOWLEDGE AND UNIQUE CAPABILITIES

# NEW IMAGING FACILITY *for earlier* CANCER DIAGNOSIS

Four of Brisbane's leading research and clinical organisations have joined forces to develop platform technologies for earlier detection of cancer, as well as mental disorders and neurological diseases.

The Herston Imaging Research Facility (HIRF), due to open in September 2014, is a \$22 million purpose-built, multidisciplinary translational research centre equipped to provide superior, human diagnostic imaging services.

Pivotal located adjacent to UQCCR, the HIRF represents an alliance between The University of Queensland, the Royal Brisbane and Women's Hospital, QIMR Berghofer Medical Research Institute, and Queensland University of Technology.

Faculty of Medicine and Biomedical Sciences Executive Dean Professor Nicholas Fisk said the HIRF opened up exceptional new pathways to explore and improve human health.

"This unique collaboration has seen an unrivalled degree of cooperation between the partners, which will support meaningful reform in health care delivery, as well as place Queensland at the global frontier of human imaging research, clinical trials, and patient care," Professor Fisk said.

The HIRF has also attracted the support of other UQCCR partners. A \$3 million Queensland Government grant, plus \$8.25 million in Commonwealth funding and industry support from Siemens will ensure the facility is equipped with the most advanced technology in Australia.

## Imaging at the molecular level

A \$2 million dollar contribution from the Australian Cancer Research Foundation (ACRF) will help fund new molecular imaging equipment in the ACRF Molecular Oncology Translation Imaging Facility, which will be housed in the HIRF.

Molecular scanning plays a key role in the analysis of brain tumours, head and neck cancers, ovarian and prostate cancers.

UQCCR Honorary Principal Research Fellow Associate Professor Stephen Rose, said the molecular scanning equipment will reduce the time for research findings to be translated into practice.

"Hybrid Molecular Imaging Technology marks a new era in cancer imaging. Its improved diagnostic and therapeutic capabilities have the potential to revolutionise cancer research and patient treatment," Associate Professor Rose said.

"Current imaging methods, such as Magnetic Resonance Imaging (MRI) and Positron Emission Tomography (PET), are not always accurate on their own for detecting where the tumour or metastases exist in the body.

"The new hybrid scanners can locate where the tumour is in the body, as well as provide biological information about the cancer to improve diagnosis, optimise treatment planning and monitor therapy outcomes.

"This is particularly important for imaging organs that move in the body - particularly prostate, ovarian, liver and lung tumours - because the quality of the image degrades with motion," Associate Professor Rose said.

Hybrid scanning with MRI/PET allows the motion of organs to be tracked and corrected to provide better quality metabolic images.

## New tools for researchers

Scientists are increasingly using imaging as a tool to understand life processes.

The new technologies will be available for use by UQCCR staff, researchers and clinicians as well their colleagues at the Royal Brisbane and Women's Hospital, the QIMR Berghofer Medical Research Institute, and Queensland University of Technology.

This means researchers will have the opportunity to conduct clinical trials, utilising the facilities at UQCCR, and assess the performance of new drugs for neurological and psychiatric indications as well as for cancer.

Access to the HIRF will also benefit medical imaging and radiation sciences training programs offered in Queensland.

**"Hybrid Molecular Imaging Technology marks a new era in cancer imaging. Its improved diagnostic and therapeutic capabilities have the potential to revolutionise cancer research and patient treatment."**

## KEY CAPABILITIES

1

**Advanced 3 Tesla Magnetic Resonance Imaging scanner (3-T MRI):** to provide extremely fine structural and functional detail of body tissue

2

**Positron Emission Tomography/Computed Tomography (PET/CT):** to image the biology of disorders at the molecular level, while providing a detailed picture of the body's internal anatomy

3

**Combined Synchronous PET/MRI:** to capture anatomical/functional (MRI) and functional (PET) information on disease processes simultaneously

Biograph mMR, image courtesy of Siemens







Herston Imaging Research Facility located adjacent to UQCCR





**HIRF**  
HERSTON IMAGING RESEARCH FACILITY

Australian  
Cancer Research  
Foundation





# SCIENTISTS JOIN FORCES TO UNRAVEL THE SECRETS OF BREAST CANCER

Every day in Australia, an average of 37 women are diagnosed with breast cancer. For seven of these women, the battle to beat this terrible disease will prove too much and they will tragically lose their lives.

In recent years, the quest to find answers to effectively diagnose, treat and ultimately cure breast cancer has received enormous support internationally. Even so, there are still many gaps in our understanding of how breast cancer develops and spreads. It seems the more researchers learn, the more it becomes evident just how diverse and complex breast cancer really is.

Professor Sunil Lakhani, an internationally renowned breast cancer pathologist at UQCCR, has dedicated almost an entire research career to learning about the development and progression of this multifaceted disease.

For part of his research, Professor Lakhani has collaborated with two scientists from QIMR Berghofer Medical Research Institute in Brisbane, Professor Georgia Chenevix-Trench and Professor Kum Kum Khanna.

Both researchers have extensive experience in investigating the underlying genetics of cancer development and understanding signalling pathways that control the behaviour of both normal and cancerous cells.

Their work, underpinned by continuous joint NHMRC Program funding (2007-2016) to the three investigators, spans the full spectrum of breast cancer development and progression.

## Understanding breast cancer risk

Although many risk factors for breast cancer have been identified by researchers, they do not lend themselves to primary prevention, except in the extreme case of high risk women who opt for surgery to remove one or both breasts.

Therefore, a key research focus of the collaboration with QIMR Berghofer is identifying changes in the DNA that explain why breast cancer occurs in some people but not in others.

In a study published in *Nature Genetics* in 2013, the researchers were part of a team that completed a large-scale study that looked for DNA sequence variations in the TERT gene.

"After looking at a large patient series of almost 104,000 people, DNA variants were found that affected a person's risk of developing breast and ovarian cancer," Professor Lakhani said.

"This outcome has allowed us to gain a better understanding of the mechanisms of disease development, however it has also highlighted the level of complexities involved in determining cancer risk."

## Analysing the DNA structure of tumours

To complement the research being done with his partners at QIMR Berghofer, Professor Lakhani and UQCCR researcher Dr Peter Simpson are involved in The International Cancer Genome Consortium. This international collaboration is using DNA sequencing to identify changes that have happened in the DNA of tumour cells.

"Characterising the alterations in the DNA of an invasive tumour helps us to understand the processes that drive tumour development and growth. This information can then be used to select the most appropriate therapies for individual patients'," Dr Simpson said.

"This consortium has played a major role in analysing the DNA structure of many different tumours including breast cancer and is accelerating research into the likely causes and control of cancer."

## Understanding why breast cancer spreads

Another area of research Professor Lakhani and his team have undertaken is in relation to understanding the mechanisms of tumour spread from the breast to other parts of the body. This process, called metastasis, is responsible for most cancer-related deaths.

"Through studying the pattern of secondary (metastatic) tumours from patients who died from their breast cancer, we found that women diagnosed with breast cancer under the age of 50 years were more likely to develop secondary cancer in the liver or gynaecological organs," Professor Lakhani said.

"We also found patients with bone metastases had an increased chance of developing secondary cancer in the brain."

"This work is giving us insight into how particular types of breast cancer might spread and how the tumour cells may change during this progression."

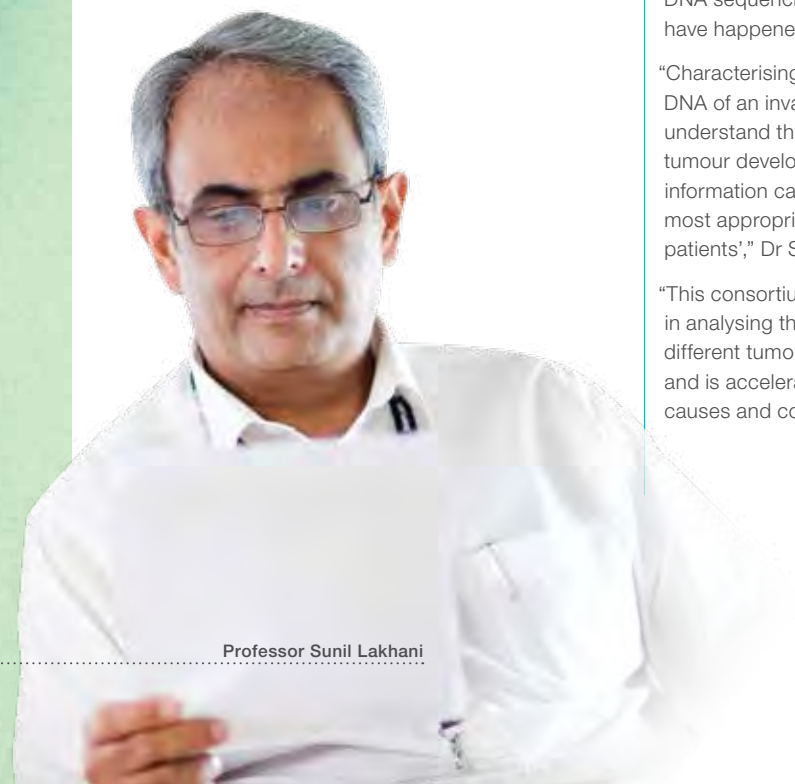
These insights may help to improve breast cancer diagnosis and patient management, by establishing screening methods to detect secondary disease early and selecting the best therapies for patients.

Dr Ben Green, a consultant surgeon at the RBWH, has been appointed as a research fellow to establish a clinical trial to evaluate the follow up and early detection of metastases using DNA markers in the blood of patients with high-grade breast cancer. His fellowship is funded by the Office of Health and Medical Research (OHMR), Queensland Health.

**UQCCR Researchers:** Professor Sunil Lakhani, Dr Peter Simpson, Dr Ben Green

**Partner Organisation:** QIMR Berghofer Medical Research Institute

**Email:** s.lakhani@uq.edu.au



Professor Sunil Lakhani



## PREVENTING PREGNANCY RELATED *tragedy like stillbirth*

An international focus on bringing health benefits to the world's children.

Unbelievably, six babies are stillborn in Australia every day. This makes stillbirth 35 times more common than Sudden Infant Death Syndrome and almost as common as breast cancer – yet it's a largely under-researched area.

Professor Paul Colditz, specialist in neonatal medicine at UQCCR, is one researcher who is committed to preventing pregnancy-related tragedies like stillbirth.

For over ten years, Professor Colditz has been collaborating with Professor Boualem Boashash, a researcher at Qatar University and expert in the field of time frequency signal processing.

In order to fully understand events happening prior to birth, it is essential to have a sound knowledge of biomedical engineering techniques such as signal processing, as often this is the only safe and non-invasive way to understand what is happening within the womb.

Professor Colditz's career in neonatal medicine has also encompassed a significant component of biomedical engineering. The unique set of skills within this partnership has provided the research team with the ability to approach complex research issues from a novel perspective.

### New movement detector to reduce rate of stillbirth

To reduce the incidence of stillbirth, researchers hope to develop a fetal movement detector that expecting mothers can use within the home.

Fetal movement is known to be a strong indicator of fetal wellbeing, with a reduction in fetal movement often occurring before stillbirth.

"We aim to provide a simple, non-invasive device which can be used to measure fetal movements during high-risk pregnancies, to identify reductions in a baby's movements within the womb over time," Professor Colditz said.

### Reducing the impact of brain injury

Alongside this project, researchers are making headway to prevent or reduce the impact of brain injury for premature infants. Using electroencephalography (EEG), researchers measure the brain electrical activity of babies at risk of or following brain injury.

"Our EEG analytic methods aim to identify the source of signals coming from different regions of the brain and to clearly identify parts of the brain that are injured following traumas such as a lack of oxygen at birth," Professor Colditz said.

"This will assist in the development and monitoring of targeted protective treatments. With these tools, clinicians in the future will be able to rapidly implement treatment to either prevent or reduce the impact of damage during this critical time period."

### Collaborative support

For these research projects to be made possible, Professors Colditz and Boashash have received a great deal of support through the Qatar National Research Fund (QNRF).

Financial support provided by QNRF for these projects have allowed for the recruitment of senior research staff and research higher degree students to take on the research projects, both in Qatar and at UQCCR.

QNRF also facilitate links with staff from international institutions and provide various infrastructure support.

"Being able to partner with QNRF has enabled us to make much more rapid progress in this vitally important research area. It has facilitated our research team to develop an international research profile within this emerging and essential new field," Professor Colditz said.

"We have been able to develop new collaborations with clinicians, researchers, hospitals and universities; opportunities that wouldn't, otherwise, have been available."

"An international focus on bringing health benefits to the world's children is an exciting prospect. Involving different research groups globally and having the involvement and interchange of international students in the research is a powerful formula for effective advances, likely to influence clinical practice in pregnancy and the newborn."

**UQCCR Researcher:**  
Professor Paul Colditz

**Partner Organisation:** Qatar University;  
Qatar National Research Fund

**Email:** p.colditz@uq.edu.au



Professor Paul Colditz speaking at the 2013 Butterfly Ball



BBC STUDENT SCIENTIST PARTNERSHIP PROGRAM

2013 THEO MURPHY HIGH FLYERS THINK TANK

PARKINSON'S QUEENSLAND SUPPORT GROUPS

PATHOLOGY DAY

BUTTERFLY BABIES

ENGAGING STUDENTS IN SCIENCE

AUSTRALASIAN FETAL ALCOHOL SPECTRUM DISORDERS (FASD) CONFERENCE

UNITY WALK FOR PARKINSON'S

INFORMATION SESSION ABOUT THE SOCIAL IMPLICATIONS OF BRAIN DISEASE

# 8 COMMUNITY *Engagement*

Pathology Day

As part of an initiative of the Royal College of Pathologists of Australasia, researchers from UQCCR participated in 'Pathology Day' in May 2013. An event intended to highlight and praise the role of the pathology profession in health care within the Australasian region, the day provided a wonderful opportunity for researchers to share some interesting aspects of pathology practice and research with the community.

Professor Sunil Lakhani, Professor Helen Chenery and Associate Professor Margaret Cummings presented talks to an interested audience which included representatives from Breast Screen Queensland, along with students and teachers from local high schools.

2013 Theo Murphy High Flyers Think Tank

APCN neurophysiologist, Dr Hari Subramanian was selected to participate in the 2013 Theo Murphey High Flyers Think Tank: Inspiring smarter brain research in Australia. The Think Tank series brings together early and mid-career researchers to engage in thinking about novel applications of existing science and technology, and identify gaps in knowledge that might be addressed when applying science and technology to a particular issue.

Parkinson's Queensland Support Groups

Professor Peter Silburn and Associate Professor Terry Coyne held a presentation and Q&A session for various Parkinson's Queensland support groups around Queensland, including the Lockyer Valley, Hervey Bay and the Gold Coast.

Dr Adrian Carter and Dr Nadeeka Dissanayaka presented to Parkinson's Queensland support groups in Mitchelton and Mt Gravatt, Brisbane, on 'Psychiatric and compulsive disorders in Parkinson's disease'.

Information Session about the Social Implications of Brain Disease

Associate Professor Jayne Lucke, Dr Adrian Carter and Dr Carla Meurk presented 'The social implications of brain disease explanations of addiction' session to the nursing staff of The Alcohol and Drug Service at the Royal Brisbane and Women's Hospital, Herston.



Professor Murray Mitchell with students from Brisbane Boys College

BBC Student Scientist Partnership Program

Professor Murray Mitchell, Dr Tracey Björkman and Dr Barbara Lingwood welcomed four students in February to participate in research projects at UQCCR, as part of the 'BBC Student Scientist Partnership Program'. A partnership between the UQ School of Medicine and the Brisbane Boys College (BBC), gifted year 12 science students at BBC are given the opportunity to become involved in cutting edge research at UQCCR.

Engaging Students in Science

High school students from Moreton Bay College and the Queensland Academy for Science, Mathematics and Technology were hosted by Dr Ana Sartor (Paterson group) in her lab for up to a week each. Students had the opportunity to plan and execute an experiment with the help of Dr Sartor and her PhD students at UQCCR.

"Not only was this a fantastic teaching and mentoring opportunity for myself and my team, the students had a fantastic experience and left feeling very inspired to pursue a future in science," Dr Sartor said.

Dr Sartor also attended two careers expos for year seven students at St Joseph's College Gregory Terrace in June and July. She spoke to an enthusiastic group of students on both occasions about how she became a scientist, her current research projects at UQCCR and why students should consider a career in science.

OVERALL, BUTTERFLY BABIES RAISED OVER \$100 000 IN ITS INAUGURAL YEAR – A MIGHTY EFFORT FROM ALL INVOLVED!



Kathryn O'Connor, Chairperson, Butterfly Babies Committee

Butterfly Babies

2013 saw the launch of 'Butterfly Babies'. A clever initiative of the Perinatal Research Centre at UQCCR, Butterfly Babies raises money to support the groups vital research into conditions such as stillbirth, prematurity and brain development in babies.

After kicking off in February with an official launch party, a series of fundraising activities were held throughout the year, including a high tea, art gala, barefoot bowls and of course the annual Butterfly Ball which was once again held at the Sofitel Hotel.

Overall, Butterfly Babies raised over \$100 000 in its inaugural year – a mighty effort from all involved!

Australasian Fetal Alcohol Spectrum Disorders (FASD) Conference

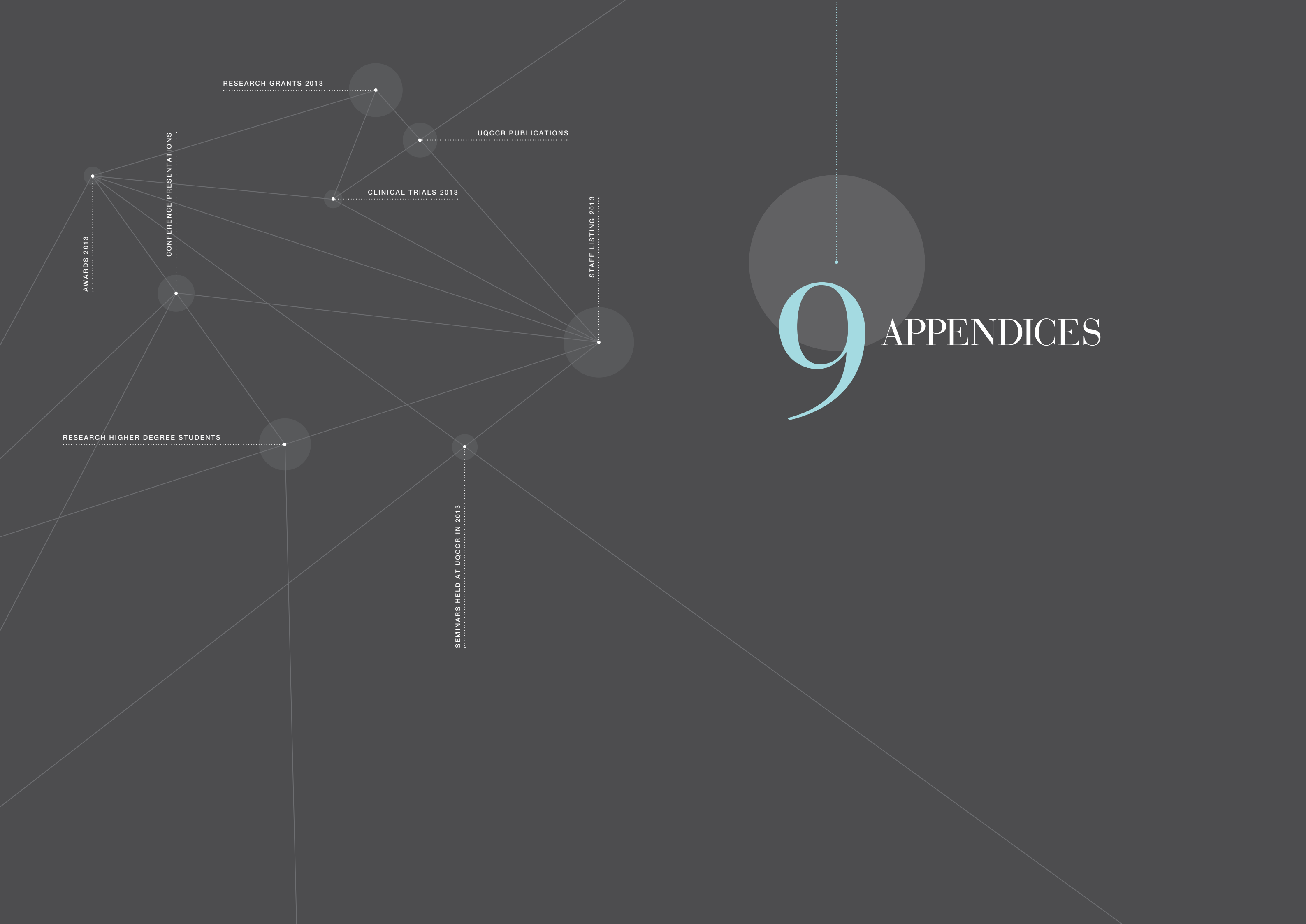
Health professionals, researchers, policy makers and carers of children with FASD gathered at Herston Campus for the first Australasian Fetal Alcohol Spectrum Disorders Conference: A time to learn, a time to act. The conference formed part of an awareness campaign to educate alcohol users and health professionals on the dangers of drinking during pregnancy and was held on November 19-20, 2013.

Unity Walk for Parkinson's

APCN researchers participated in the annual Parkinson's Unity Walk in September 2013. Organised by Parkinson's Queensland, proceeds from the walk help fund important research and increase the support services provided to people living with Parkinson's.

Participating in the Unity Walk also gave researchers an opportunity to trial the GPS tracking component of a new mobile application APCN are developing with CSIRO. Researchers are using smartphone technology to monitor the symptoms and wellbeing of people with Parkinson's disease.





AWARDS 2013

CONFERENCE PRESENTATIONS

RESEARCH GRANTS 2013

UQCCR PUBLICATIONS

CLINICAL TRIALS 2013

STAFF LISTING 2013

RESEARCH HIGHER DEGREE STUDENTS

SEMINARS HELD AT UQCCR IN 2013



# APPENDICES

Appendix 1.0

RESEARCH GRANTS 2013

New grants awarded in 2013 with a UQCCR lead investigator totalled \$5,006,600.

UQCCR researchers are indicated in bold.

Granting Body	Investigators	Project Title	Dates	Total Grant Amount
RBWH Foundation	Cartwright D, Roberts C, <b>Pritchard M</b> , Manley B	High flow nasal cannulae as primary support in the treatment of early respiratory distress	2014-2014	\$40,000
Alzheimer's Australia Dementia Research Foundation	<b>Conway E, Chenery H</b> , Angwin A, <b>Copland D</b>	Facilitating word-retrieval in conversation: Direct intervention for people with progressive aphasia	2013-2014	\$43,820
RBWH Foundation	<b>Donovan T, Lingwood B</b>	Preterm infant's growth: when and why do the babies get fat?	2013-2013	\$38,000
RBWH Foundation	<b>Henderson R, McCombe P</b>	Using biomarkers to assess disease progression and understanding of MND	2013-2013	\$40,000
Royal Melbourne Institute of Technology University	<b>Lee A, Pow D</b> , Poronnik P, Balcar V	The transportome: a coordinated complex regulating brain excitation and inhibition (NHMRC project grant administered by RMIT)	2013-2015	\$375,807
Motor Neuron Disease Research Institute of Australia	<b>Henderson R, McCombe P, Rose S</b> , Wallace R	Use of biomarkers to understand Amyotrophic Lateral Sclerosis	2013-2013	\$100,000
RBWH Foundation	<b>Pritchard M</b> , Delaney M, Cartwright D	Development of the parent-infant relationship screening tool: for targeted delivery of early intervention	2013-2013	\$22,000
Research Donation Generic	<b>Silburn P, Chenery H</b>	The Human Brain PhD Research Project - Advancing research into Parkinson's Disease	2013-2015	\$75,000
Research Donation Generic	<b>Chenery H</b>	Intraoperative Recording Equipment for Deep Brain Stimulation	2013-2013	\$66,052
Queensland University of Technology	<b>Khosrotehrani K</b> , Upton Z, Mike D	Innovations in Diabetic Foot Ulcer (DFU) Wound Care (NHMRC project grant administered by QUT)	2013-2015	\$50,000
UQ Major Equipment and Infrastructure	<b>Paterson D, Ashman K, Sidjabat H, Bell S</b> , Hugenholtz P, <b>Rice G, Mitchell M</b>	Characterisation of microorganisms by Matrix-assisted laser desorption/ionization (MALDI) Mass Spectrometry	2013-2013	\$151,903
NHMRC Equipment grant	<b>Millard S, Fisk N, Lakhani S, Rice G, Paterson D, Sidjabat H, Khosrotehrani K, Dalley A</b>	Improving PCR work-flow efficiency through automation	2013-2013	\$53,000
Research Donation Generic	<b>Scott J</b>	N-Methyl-D-Aspartate Receptor Research	2013-2015	\$25,000
Australasian College of Dermatologists Scientific Research Fund	<b>Khosrotehrani K</b>	A genome wide approach to identify important genetic determinants of skin wound healing	2013-2013	\$24,720
Research Donation Generic	<b>Lingwood B</b>	An integrated approach to inotropic support in preterm neonates.	2013-2014	\$18,750
RBWH Foundation	<b>Henderson R, McCombe P</b>	Biomarkers of disease progression in MND	2013-2014	\$60,000
RBWH Foundation	<b>Marsh R</b> , Cole M, <b>Dissanayaka N, Silburn P</b> , O'Sullivan J	The effects of a wearable, freeze detecting cueing device and venlafaxine on domiciliary freezing of gait and falling in Parkinson's Disease	2013-2014	\$40,000
ARC DECRA	<b>Carter A</b>	Treatment-induced compulsive behaviours: Ethical and policy implications	2014-2016	\$395,127
ARC Discovery Project	<b>Mitchell M, Rice G</b>	Epigenetic and biomarker approaches to improving dairy cow fertility	2014-2015	\$300,000

Granting Body	Investigators	Project Title	Dates	Total Grant Amount
NHMRC Project Grant	<b>Greer J</b>	Investigation of the functional role of antibodies against myelin proteolipid protien in multiple sclerosis	2014-2016	\$605,558
NHMRC Career Development Fellowship	<b>Gartner C</b>	Public health policies and interventions to reduce tobacco-related harms among socially disadvantaged populations and 'low probability	2014-2016	\$404,884
Diabetes Australia Research Trust Project Grant	<b>Khosrotehrani K</b>	Anti-inflammatory strategies to promote healing of chronic diabetic wounds	2014-2015	\$59,994
UQ Early Career Researcher	<b>Eiby Y</b>	The role of calcium in preterm heart function	2014-2014	\$35,000
RBWH Foundation	<b>Carter A</b>	Impulsivity and caregiver burden after deep brain stimulation for Parkinson's Disease	2014-2014	\$39,620
Australian Dental Research Fund Inc	<b>Farah C, Dalley A</b>	DNA mismatch repair in oral carcinogenesis	2014-2014	\$7,943
RBWH Foundation	<b>Donovan T, Colditz P, Rose S, Lingwood B</b>	Optimising brain development through rationally based nutritional interventions in preterm infants	2014-2014	\$59,000
Brain Foundation	<b>Meinzer M, Copland D, Rodriguez A</b>	Neural mechanisms underlying language facilitation by transcranial direct current stimulation in post-stroke aphasia	2013-2014	\$38,500
RBWH Foundation	<b>Pritchard MA</b> , Cartwright D, Hovey D, <b>Scott J</b>	A longitudinal study of autism, development and parenting in preterm infants (<29 weeks) from 2 to 4 years	2013-2014	\$22,000
RBWH Foundation	<b>Dissanayaka N, Byrne G</b> , O'Sullivan J, <b>Silburn P, Marsh R, Copland D</b> , Angwin A, Mellick G	Characterising anxiety in Parkinson's disease: a psycholinguistic and psychophysiology study comparing to anxious older adults	2013-2014	\$40,000
Qatar National Research Fund	<b>Boashash B, Colditz P</b> , Rahman S	Localization of EEG Abnormalities for Improving Brain Monitoring of Newborn Babies at Risk of Brain Injury using a multichannel time-frequency signal processing approach	2013-2015	\$1,000,000
RBWH Auxillary	<b>Lingwood B, Colditz P</b>	High precision catheters for measuring blood pressure	2013-2013	\$18,750
RBWH Foundation	Wong A, Coulthard A, <b>Read A, Finnigan S</b>	Continuous Monitoring During Acute Stroke Reperfusion Therapy	2014-2015	\$60,000
NHMRC Postgraduate Scholarshop	<b>Lazarus S</b>	Gene mapping in skeletal dysplasias	2014-2015	\$85,052
RBWH Foundation Scholarship	<b>Lazarus S</b>	Gene mapping in skeletal dysplasias	2014-2014	\$28,185
RBWH Foundation	<b>Dissanayaka N</b>	Developing a Non-Invasive composite measure to enhance accuracy of identifying anxiety in Parkinson's Disease	2014-2014	\$70,000
RBWH Foundation	<b>McCombe P</b>	Investigation of new gene involved in Motor Neurone Disease	2014-2014	\$50,000
Cancer Bequest Fund	<b>Khosrotehrani K</b>	Targeting the dermal component of basal cell carcinoma	2013-2014	\$54,000
RBWH Foundation	<b>Duncombe G, Eiby Y</b>	Improving treatment for preterm cardiovascular compromise	2014-2014	\$64,435
Cerebral Palsy Research Centre	<b>Colditz P</b> , Boyd R, George J, <b>Rose S</b>	PREMO: Prediction of preterm early motor and neurodevelopmental outcomes using advanced brain imaging and an early assessment toolbox	2014-2016	\$135,000
Cerebral Palsy Research Centre	<b>Pelekanos R, Colditz P, Ireland Z, Fisk N</b> , Boyd R	Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy	2014-2016	\$14,500
UQ CIEF	<b>Mitchell M, Rice G</b>	Early identification of high and low risk pregnancies	2014-2015	\$75,000
Cure Brain Cancer Foundation	<b>Rose S</b>	Establishment of the Brain Cancer Discovery Collaborative	2014-2014	\$120,000



New grants awarded in 2013 where a UQCCR investigator is part of the research team totalled **\$33,425,179**.  
UQCCR researchers are indicated in bold.

Granting Body	Investigators	Project Title	Dates	Total Grant Amount
Cancer Australia	Southey M, Goldgar D, Park D, Lonie A, Winship I, <b>Simpson PT, Lakhani SR</b>	High risk genes for lobular breast cancer	2013-2015	\$300,000
UWA-UQ Bilateral Research Collaboration Award	Arnott W, <b>Copland D</b> , Wilson W, McMahon K	Autism and specific language impairment: A UQ-UWA collaboration using neuroimaging and databases	2013-2013	\$11,700
NHMRC Partnership Project	Worall L, <b>Copland D</b> , Lawrie M, Ward E, Pattie M, Khan A, Veerman J, O’Conner D	Can a new intensive model of aphasia rehabilitation achieve better outcomes than usual care	2013-2019	\$751,348
RBWH Foundation	Martin J, Barras M, Lucas C, Roberts J, <b>Paterson D</b>	Are modern methods for aminoglycoside monitoring superior to existing approaches? A randomised controlled trial	2013	\$38,500
NHMRC Project Grant	<b>Pow D, Lee A</b> , Balcar V, Porronik P	The transportome: a coordinate complex regulating brain excitation and inhibition	2013-2015	\$592,143
Pathology Queensland	Heney C, <b>Sidjabat H</b> , Sinclair H, <b>Paterson D, Nimmo G</b>	Genotypic and phenotypic identification of resistance mechanisms in Aeromonas species in Queensland and clinical outcomes of invasive Aeromonas infection	2013-2014	\$27,750
National Multiple Sclerosis Society (USA)	Donnelly S, <b>Greer J</b>	Treatment of Multiple Sclerosis with parasite immunomodulatory molecules	2014-2015	\$40,000
Cancer Australia	Southey M, Goldgar D, Park D, Lonie A, Winship I, <b>Simpson PT, Lakhani SR</b>	High Risk Genes for Lobular Breast Cancer.	2013-2015	\$300,000
NHMRC Project Grant	Yap A, Zoltan N, Guillermo G, <b>Simpson P</b>	Dys)Regulating junctional tension: a novel mechanism in tumor cell biology	2014-2016	\$708,285
NHMRC Project Grant	Galvao D, <b>Chambers S</b> , Newton R, <b>Gardiner RA</b> , Cornie P, Spry N, Taaffee D, Joseph D, Hamilton K	Improving sexual health in men with prostate cancer: randomised controlled trial of exercise and psychosexual therapies	2014-2016	\$561,845
NHMRC Project Grant	Hickie H, Martin N, <b>Scott J</b> , Gillespie N, Hermens D	Clinical and neurobiological predictors of onset of major mental disorders (mania, psychosis, severe depression), and associated functional impairment, in adolescent and young adult twins: A prospective longitudinal study	2014-2018	\$1,291,586
King Abdullah International Medical Research Centre (KAIMRC)	Al-Johani S, <b>Zowawi H</b> , Balky H, Walsh W, <b>Paterson D</b>	Surveillance of antibiotic resistant Gram negative bacilli in Saudi Arabia and the Gulf States.	2013-2013	\$53,000
NHMRC Project Grant	Stacey K, <b>Roberts T</b>	The mechanism of cell death in response to cytoplasmic DNA, and its role in tumour suppression	2011-2013	\$500,022
ARC Linkage Infrastructure, Equipment and Facilities Fund	Mueller J, Gaus C, Sly, <b>Hall W</b> , Keller J, Hawker D, Toms L, Harden F, Lewis S, Kirkbride K, Prichard J, Bruno R, Birch G, Negri A, Carter S, Ponsonby A, Martin K, Zitny M	Microflow ultra high pressure liquid chromatography - high resolution mass spectrometry for chemical exposure monitoring	2014-2014	\$249,000
ARC Centres of Excellence	Evans N, Simpson J, Nordlinger R, Cutler A, Wigglesworth G, Greenhill S, Thieberger N, Wiles J, <b>Chenery H</b> , Rumsey A, Sterelny K, Escudero P, Fletcher J, Jones C, Kidd E, Travis C, Bishop J, Chang F, Christiansen M, Corbett G, Gray R, Levinson S, Lieven E, Meyerhoff M, Rowland C, TorressCacoulllos R, Troy J, Ng B, Yip V, Matthews S	ARC Centre of Excellence for the Dynamics of Language	2014-2020	\$28,000,000

# Appendix 2.0

## UQCCR PUBLICATIONS

### Books 2013

UQCCR researchers are indicated in bold.

1. **Chambers, S. K.**, Dunn, J., Lazenby, M., Clutton, S., Newton, R. U., Cormie, P., Lowe, A., Sandoe, D., **Gardiner, R.A.** (2013). ProCare: A psychological care model for men with prostate cancer. *Prostate Cancer Foundation of Australia and Griffith University, Australia*. ISBN:97809923508-3-3

### Book Chapters 2013

UQCCR researchers are indicated in bold.

1. **Carter, A.**, & **Hall, W. D.** (2013). Addiction neuroethics: Ethical and social implications of genetic and neuroscience research on addiction. In P. Miller (Ed.), Biological research on addiction: *Comprehensive addictive behaviors and disorders* (Vol. 2, pp. 541-549). San Diego: Elsevier/Academic press.

2. **Colditz, P. B.** & **East, C.** (2013). Fetal Pulse Oximetry in *Anesthesia and the Fetus* (pp. 123-128): Wiley-Blackwell.

3. **Carter, A.** & **Hall, W.** (2013). Ethical issues in the treatment of drug dependence. In M. M. Peter (Ed.), *Interventions for Addiction* (pp. 611-620). San Diego: Academic Press.

4. **Chan, H.-W.**, **Rice, G. E.** & **Mitchell, M. D.** (2013). Biotransformation and transfer of genistein: a comparison with xenoestrogens and a focus on the human placenta. In R. P. Victor , *Isoflavones: Chemistry, Analysis, Function and Effects* (pp. 115-130). Cambridge, United Kingdom: Royal Society of Chemistry Publishing.

5. **Hall, W. D.** & **Carter, A.** (2013). How may neuroscience affect the way that the criminal courts deal with addicted offenders? In N. Vincent (Ed.), *Neuroscience and legal responsibility* (1st ed., pp. 279-302). London: Oxford University Press.

6. **Ngo, S.** & Bellingham, M. (2013). Neurophysiological recording of the compound muscle action potential for motor unit number estimation in Mice. In P. M. Pilowsky, M. M. J. Farnham & A. Y. Fong (Eds.), *Stimulation and Inhibition of Neurons* (Vol. 78, pp. 225-235). Humana Press.

7. **Salomon, C.**, **Sobrevia, L.**, **Ashman, K.**, **Illanes, S. E.**, **Mitchell, M. D.**, & **Rice, G. E.** (2013). The role of Placental Exosomes in *Gestational Diabetes Mellitus in Gestational Diabetes – causes, diagnosis and treatment* (pp. 29-47) Intech.

8. **Liddle, J.**, McKenna, K., Gustafsson, L., **Chenery, H.**, Bartlett, H., & Broome, K. (2013). Time use and participation: impact of age, illness, life transitions and deep brain stimulation. In I. Christina & K. Marie-Louise Van Der (Eds.), *2012 Time Use: Australia, UK, USA, Canada, South America & Europe* (pp. 3-3). Melbourne, VIC, Australia: Deakin University.

9. **Mosley, P.E.** & Lyness, J. (2013). Physical Co-Morbidity with Mood Disorders in *The Oxford Handbook of Geropsychology* (eds. Laidlaw, K. & Pachana, N.A.) Oxford University Press.

10. **Roberts, M.J.**, **Schirra, H.J.**, **Lavin, M.F.** & **Gardiner, R.A.** (2013). NMR-based Metabolomics: Global analysis of metabolites to address problems in Prostate Cancer in *Breast, Cervical and Prostate Cancer*. iConcept Press.

11. **Dekker Nitert, M.**, **Barrett, H.L.**, de Jersey, S., Matusiak, K., McIntyre, H.D., Callaway, L.K. (2013) Preconception care and barriers to addressing overweight in obesity in *Diet and nutrition in the menstrual cycle, conception and Fertility* (pp 327-341). Wageningen Academic Publishers.

12. **Carter, A.** & **Hall, W.** (2013). Introduction. In N. Levy and J. Clausen (Eds.), *Handbook of Neuroethics*. Heidelberg: Springer.

13. **Hall, W.**, **Carter, A.** & Yucel, M. (2013). Ethical issues in the neuroprediction of addiction risk and treatment response. In N. Levy and J. Clausen (Eds.), *Handbook of Neuroethics*. Heidelberg: Springer.

14. Capps, B., **Carter, A.** and Van Der Eijk, Y. (2013). Ethical issues in the treatment of addiction. In N. Levy and J. Clausen (Eds.), *Handbook of Neuroethics*. Heidelberg: Springer.

15. **Carter, A.**, & **Hall, W.** (2013). Ethical issues in addiction treatment. In P. Miller (Ed). *Encyclopedia of Addictive Behaviors*: Elsevier.

16. **Carter, A.** & **Hall, W.D.** (2013). Ethical issues in the treatment of drug dependence. in: M.M. Peter (Ed.), *Interventions for Addiction*. San Diego: Academic Press, pp. 611-620.

17. **Hall, W.D.** & Degenhardt, L. (2013). Cannabis use and the development and maintenance of psychosis. In: P.M. Miller (Ed.), *Principles of addiction: Comprehensive addictive behaviors and disorders*. San Diego: Elsevier/Academic Press, pp. 517-524.

18. **Hall, W.D.** & **Lucke, J.** (2013). Drug decriminalization and legalization. In: P.M. Miller (Ed.), *Interventions for addiction: Comprehensive addictive behaviors and disorders*. San Diego: Elsevier/Academic Press, pp. 689-696.

19. **Forlini, C.**, Racine, E., **Partridge, B.**, & **Lucke, J. C.** (2013). Cognitive enhancement and the media. In J. Clausen & N. Levy (Eds.), *Handbook of Neuroethics* (Clausen, J and Levy, N, eds) (Vol. Springer): Springer.

20. **Hall, W.D.** & **Carter, A.** (2013). What does neuroscience tell us about the responsibility of addicted persons for their drug use and drug-related behaviour? In: W. Glannon (Ed.), *Neuroscientific and philosophical perspectives on free will*. Oxford, UK: Oxford University Press.

21. **Lucke, J.**, **Partridge, B.**, Racine, E. & **Forlini, C.** (2013). Using neuropharmaceuticals for cognitive enhancement: Policy and regulatory issues. In: J. Clausen & N. Levy (Eds.), *Handbook of Neuroethics*. Springer.

22. Hersh, D., Worrall, I., O'Halloran, R., Brown, K., Grohn, B. & **Rodriguez, A.** (2013). Assess for success: Evidence for therapeutic assessment. In *Supporting Communication for Adults with Acute and Chronic Aphasia*, N Simmons-Mackie, JM Alternative Communication (AAC) Series. (pp 295-311) Brookes Publishing.

23. **McCombe, P. A.**, & **Greer, J. M.** (2013). Sexual Dimorphism in the Immune System. In N. R. Rose & I. R. Mackay (Eds.), *The Autoimmune Diseases* (Fifth Edition) (pp. 319-328). Boston: Academic Press.

## Journal Articles 2013

*UQCCR researchers are indicated in bold.*

1. **Abdulmajeed, A. A., & Farah, C. S.** (2013). Can immunohistochemistry serve as an alternative to subjective histopathological diagnosis of Oral Epithelial Dysplasia? *Biomarkers in Cancer*, 5, 49-60. doi: 10.4137/BIC.S12951
2. **Abdulmajeed, A. A., & Farah, C. S.** (2013). Gene expression profiling for the purposes of biomarker discovery in Oral Potentially Malignant Lesions: A systematic review. *Clinical Medicine Insights. Oncology*, 7, 279-290. doi: 10.4137/CMO.S12950
3. **AbdulMajeed, A. A., Dalley, A. J., & Farah, C. S.** (2013). Loss of ELF3 immunoexpression is useful for detecting oral squamous cell carcinoma but not for distinguishing between grades of epithelial dysplasia. *Annals of Diagnostic Pathology*, 17(4), 331-340. doi: 10.1016/j.anndiagpath.2013.03.003
4. **Abdulmajeed, A. A., Dalley, A. J., & Farah, C. S.** (2013). Putative cancer stem cell marker expression in oral epithelial dysplasia and squamous cell carcinoma. *Journal of oral pathology & medicine: official publication of the International Association of Oral Pathologists and the American Academy of Oral Pathology*. doi: 10.1111/jop.12073
5. **Adnan, S.**, Li, J. X., Wallis, S. C., Rudd, M., Jarrett, P., **Paterson, D. L., Lipman, J.**, Udy, A. A. & Roberts, J. A. (2013). Pharmacokinetics of meropenem and piperacillin in critically ill patients with indwelling surgical drains. *International Journal of Antimicrobial Agents*, 42(1), 90-93. doi: DOI 10.1016/j.ijantimicag.2013.02.023
6. **Adnan, S., Paterson, D. L., Lipman, J.**, & Roberts, J. A. (2013). Ampicillin/sulbactam: Its potential use in treating infections in critically ill patients. *International Journal of Antimicrobial Agents*, 42(5), 384-389. doi: DOI 10.1016/j.ijantimicag.2013.07.012
7. Ahimastos, A. A., **Walker, P. J.**, Askew, C., Leicht, A., Pappas, E., Blombery, P., Reid, C. M., Golledge, J. & Kingwell, B. A. (2013). Effect of ramipril on walking times and quality of life among patients with peripheral artery disease and intermittent claudication: a randomized controlled trial. *Journal of American Medical Association*, 309(5), 453-460. doi: 10.1001/jama.2012.216237
8. Ahire, M., Sheridan, J., Regbetz, S., Stacey, P., & **Scott, J. G.** (2013). Back to basics: Informing the public of co-morbid physical health problems in those with mental illness. *Australian and New Zealand Journal of Psychiatry*, 47(2), 177-184. doi: Doi 10.1177/0004867412450753
9. 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., ... **Gardiner, R. A.**, et al. (2013). 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/dd5425
10. **Aminzadeh, Z.**, & Darazam, I. A. (2013). Concomitant Pulmonary Nocardiosis and Tuberculosis in a patient with Rheumatoid Arthritis: A new view point. *Jundishapur Journal of Microbiology*, 6(1), 91-94. doi: Doi 10.5812/Jjm.5362
11. **Aminzadeh, Z.**, Yadegarynia, D., Fatemi, A., Armaki, S. A., & Aslanbeygi, B. (2013). Prevalence and Antimicrobial Susceptibility pattern of extended spectrum Beta Lactamase (ESBL) and non-ESBL producing Enteric Gram-Negative Bacteria and activity of Nitrofurantoin in the era of ESBL. *Jundishapur Journal of Microbiology*, 6(7). doi: Unsp E6699 Doi 10.5812/Jjm.6699
12. Andani, R., Robertson, I., Macdonald, K. P., Durrant, S., Hill, G. R., & **Khosrotehrani, K.** (2014). Origin of Langerhans cells in normal skin and chronic GVHD after hematopoietic stem-cell transplantation. *Experimental dermatology*, 23(1), 75-77. doi: 10.1111/exd.12301
13. Askew, C. D., Parmenter, B., Leight, A. S., **Walker, P. J.**, & Golledge, J. (2013). Exercise & Sports Science Australia (ESSA) position statement on exercise prescription for patients with peripheral arterial disease and intermittent claudication. *Journal of science and medicine in sport / Sports Medicine Australia*. doi: 10.1016/j.jsams.2013.10.251
14. Au, T. B., Golledge, J., **Walker, P. J.**, Haigh, K., & Nelson, M. (2013). Peripheral arterial disease - diagnosis and management in general practice. *Australian Family Physician*, 42(6), 397-400.
15. **Avent, M., Vaska, V., Rogers, B.**, Cheng, A., **Van, H. S.**, Holmes, N., Howden, B., & **Paterson, D.** (2013). Vancomycin therapeutics and monitoring: a contemporary approach. *Internal Medicine Journal*. doi: 10.1111/imj.12036
16. Baade, P. D., Youlden, D. R., Cramb, S. M., Dunn, J., & **Gardiner, R. A.** (2013). Epidemiology of prostate cancer in the Asia-Pacific region. *Prostate international*, 1(2), 47-58. doi: 10.12954/PI.12014
17. Babor, T., **Hall, W.**, Humphreys, K., Miller, P., Petry, N., & West, R. (2013). Who is responsible for the public's health? The role of the alcohol industry in the WHO global strategy to reduce the harmful use of alcohol. *Addiction*, 108(12), 2045-2047. doi: 10.1111/add.12368
18. Bailey, M. J., Shield-Artin, K. L., Oliva, K., Ayhan, M., Reisman, S., & **Rice, G. E.** (2013). Stage-specific analysis of plasma protein profiles in ovarian cancer: Difference in-gel electrophoresis analysis of pooled clinical samples. *Journal of carcinogenesis*, 12, 10. doi: 10.4103/1477-3163.114216
19. **Baker, R.**, Angus, D., **Smith-Conway, E. R.**, Baker, K. S., Gallois, C., Smith, A., Wiles, J., & **Chenery, H. J.** (2013). Visualising conversations between care home staff and residents with dementia. *Ageing & Society*, FirstView, 1-28. doi: doi:10.1017/S0144686X13000640
20. Barnett, A. G., Page, K., Campbell, M., Martin, E., Rashleigh-Rolls, R., Halton, K., **Paterson, D. L.**, Hall, L., Jimmieson, N., White, K., & Graves, N. (2013). The increased risks of death and extra lengths of hospital and ICU stay from hospital-acquired bloodstream infections: a case-control study. *British Medical Journal open*, 3(10). doi: ARTN e003587 DOI 10.1136/bmjopen-2013-003587
21. **Barrett, H. L., Nitert, M. D.**, Jones, L., O'Rourke, P., Lust, K., Gattford, K. L., De Blasio, M. J., Coat, S., Owens, J. A., Hague, W. M., McIntyre, H. D., **Callaway, L.**, & Rowan, J. (2013). Determinants of maternal triglycerides in women with gestational diabetes mellitus in the Metformin in Gestational Diabetes (MiG) study. *Diabetes Care*, 36(7), 1941-1946. doi: 10.2337/dc12-2132
22. **Barrett, H. L.**, Gafford, K. L., Houda, C. M., De Blasio, M. J., McIntyre, H. D., **Callaway, L. K.**, **Nitert, M. D.**, Coat, S., Owens, J. A., Hague, W. M., & Rowan, J. A. (2013). Maternal and neonatal circulating markers of metabolic and cardiovascular risk in the metformin in Gestational Diabetes (MiG) Trial Responses to maternal metformin versus insulin treatment. *Diabetes Care*, 36(3), 529-536. doi: Doi 10.2337/Dc12-1097
23. **Barrett, H. L., Nitert, D. M.**, Lust, K., Fagermo, N., Wolski, P., & **Callaway, L. K.** (2013). The conundrum of eclampsia and fitness to drive. *The Australian & New Zealand journal of Obstetrics & Gynaecology*, 53(6), 540-543. doi: 10.1111/ajo.12139
24. Bartlett, F., **Hall, W.**, & **Carter, A.** (2013). Case and comment. Tasmania v Martin (no 2): voluntariness and causation for criminal offending associated with treatment of Parkinson's disease. *Criminal Law Journal*, 37(5), 330-341.
25. Becherel, O. J., Yeo, A. J., Stellati, A., Heng, E. Y. H., Luff, J., Suraweera, A. M., Woods, R., Fleming, J., Carrie, D., McKinney, K., Xu, X. L., Deng, C. X., & **Lavin, M. F.** (2013). Senataxin plays an essential role with DNA damage response proteins in meiotic recombination and Gene silencing. *Plos Genetics*, 9(4). doi: ARTN e1003435 DOI 10.1371/journal.pgen.1003435
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36. Boyd, R. N., Mitchell, L. E., James, S. T., Ziviani, J., Sakzewski, L., Smith, A., **Rose, S.**, Cunningham, R., Whittingham, K., Ware, R. S., Comans, T. A., & Scuffham, P. A. (2013). Move it to improve it (Mitii): study protocol of a randomised controlled trial of a novel web-based multimodal training program for children and adolescents with cerebral palsy. *British Medical Journal open*, 3(4). doi: 10.1136/bmjopen-2013-002853
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41. Callaway, L. K., Mamun, A., McIntyre, H. D., Williams, G. M., Najman, J. M., **Nitert, M. D.**, & Lawlor, D. A. (2013). Does a history of hypertensive disorders of pregnancy help predict future essential hypertension? Findings from a prospective pregnancy cohort study. *Journal of Human Hypertension*, 27(5), 309-314. doi: Doi 10.1038/Jhh.2012.45
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43. **Carter, A., & Hall, W.** (2013). Ethical implications of research on craving. *Addictive Behaviors*, 38(2), 1593-1599. doi: DOI 10.1016/j.addbeh.2012.07.002
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# Appendix 3.0

## AWARDS 2013

Name	Award
Professor Paul Colditz	National Life Membership – Sids and Kids Association
	Ray Phippard Award – Lions Medical Research Foundation
Professor David Paterson	Bancroft Orator 2013 (Australian Medical Association)
Professor Peter Silburn	Appointed a Member of the Order of Australia (AM) in the 2013 Australia Day Honours
Associate Professor Camile Farah	Fellow of the Oral Medicine Academy of Australasia
Associate Professor Kiarash Khosrotehrani	Travel Award, International Society for Stem Cell Research
Dr Fusun Baumann	Dean's Award for Research Higher Degree Excellence
Dr Adrian Carter	Shimadzu Young Investigator Award, UQCCR Shimadzu Awards Night
	Faculty 1000 Associate Faculty Member Travel Award
Dr Nadeeka Dissanayaka	Shimadzu Outstanding Young Investigator Award, UQCCR Shimadzu Awards Night
Dr Yvonne Eiby	Most Outstanding Presentation by an Early Career Researcher, Fetal and Neonatal Physiology Workshop
Dr Shiree Heath	Dean's Award for Research Higher Degree Excellence
Dr Brad Partridge	Young Tall Poppy Science Award, Australian Institute of Policy and Science
Dr Jatin Patel	Education Award, National Stem Cell Foundation
	Junior Investigator Best Oral Presentation Award, National Stem Cell Foundation
Dr Margo Pritchard	Awarded Visiting Senior Lecturer, Queens University, Belfast, Northern Ireland
Dr Edwige Roy	Education Award, National Stem Cell Foundation
	Travel Award, Japanese Society for Investigative Dermatology
Dr Carlos Salomon	Excellence in doctoral thesis award for best PhD thesis, Pontificia Universidad Católica de Chile
	Best Basic Science Oral presentation at the 22nd annual RBWH Healthcare Symposium

### Student Awards

Name	Award
Lisa Byrom	Global Controversies in Skin Cancer, best clinical poster award
Jamie Kutasovic	Lorne Cancer Travel Bursary
Dr Syndia Lazarus	MSD-ANZBMS Clinical Research Excellence Award
Philip Mosley	Royal Australian & New Zealand College of Psychiatrists, Faculty of Psychiatry of Old Age, Basic Trainee Prize
Alicia Rawlings	Abstract Merit Award, Society for the Neurobiology of Language
Tracy Roxbury	Allied Health Research Award, RBWH Health Care Symposium
Hosam Zowawi	i2 fellowship recipient (in partnership with Harvard i-lab)



Appendix 4.0

CONFERENCE PRESENTATIONS

Invited Speakers	
Dr Adrian Carter	Irresistible impulses? A legal case of drug-induced compulsive sexual behaviours. Judging responsibility: In the courtroom, in the lab, and in the armchair, Macquarie University, November, Sydney, Australia.
	Neuroethical and other translational challenges for psychiatric use of DBS, Deep Brain Stimulation Symposium, Asia Pacific Centre for Neuromodulation and the Queensland Brain Institute, The University of Queensland, November, Brisbane, Australia.
	Drug-induced Compulsive behaviour in Parkinson's: Clinical and legal implications, Neuroethics Down-under 2013: Neuroscience, ethics and public policy in Australia, University of Queensland, October, Brisbane, Australia.
	Challenges for the use of extended-release naltrexone in opioid-dependent offenders, Treating the criminal offender brain can we? Should we? Robina Institute, September, Minneapolis, USA.
	Addiction Neuroethics: The promises and perils of neuroscience research of addiction, Victorian Substance Use Research Forum, August, Melbourne, Australia.
Professor Helen Chenery	Client entered Data Collection System for Parkinson's disease, Deep Brain Stimulation Symposium, November, Brisbane, Australia.
Professor Paul Colditz	Workshop: "MRI of the newborn brain". Brain Meeting, December, Utrecht, The Netherlands.
	Keynote Speaker: "Hypoxic ischaemic encephalopathy: modern treatment International Congress of Pediatrics", August, Melbourne, Australia.
	Keynote Speaker: "The importance of the perinatal period to health and disease". Mater neonatal research symposium, November, Brisbane, Australia
Associate Professor Terry Coyne	Pedunculopontine Neucleus: A Real Target?, The 16th Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, May, Tokyo, Japan.
Professor Wayne Hall	Keynote Speaker: How may addiction neuroscience affect the way in which we deal with addicted offenders? Applied Research in Crime and Justice Conference, Sydney, February, 2013.
	Plenary Paper: How may biomedical science assist law enforcement to reduce drug-related harm? Australasian Drug and Alcohol Strategy Conference, March, Sydney, Australia.
	Invited Webinar: What are the adverse health effects of cannabis use? US College Counsellors Coalition, Washington State, April, Seattle, USA.
	Invited Seminar: The future of tobacco control in Australia: hi tech, low tech or no tech? National Addiction Centre, Kings College London, April, London, UK.
	Invited Seminar: The future of tobacco control in Australia: hi tech, low tech or no tech? London School of Hygiene and Tropical Medicine, May, London, UK.
	Invited lecture: The future of tobacco control: high tech, low tech and no tech scenarios. National Drug Research Institute, Curtin University, July, Perth, Australia.
	Invited seminar: Bursting the cognitive enhancement bubble. School of Philosophy, University of Tasmania, August, Hobart, Australia.
	Invited Lecture: The ethical and legal implications of compulsive behaviours in patients with Parkinsons' Disease treated with dopamine agonists. School of Law, University of Tasmania, August, Hobart, Australia.
	Keynote presentation: Young Australian cigarette smokers and illicit drug users. Illicit Drug Trends Conference, October, Melbourne, Australia.
	Invited comment: Summary of Dialogue on Gambling Research, Monash University, October, Melbourne, Australia.
	Keynote Presentations: The adverse health and psychological effects of cannabis use: what have we learned in the past 20 years? and Medical cannabis conundra. At Through the Maze: Cannabis and Health, International Drug Policy Symposium, November, Auckland, New Zealand.
	Keynote presentations: An overview of our research on addiction neuroethics; and Young Australian cigarette smokers and illicit drug users. Illicit Drug Trends Conference, October, Melbourne, Australia.

Invited Speakers	
Dr Aven Lee	Alternate splicing of glutamate transporters, Anderson Stuart seminar, University of Sydney, September, Sydney, Australia
Dr Jacqueline Liddle	Monitoring the impact of Parkinson's disease on community life using everyday technology, Deep Brain Stimulation Symposium, November, Brisbane, Australia.
Dr Philip Mosley	Impulsivity & Caregiver Burden after Deep Brain Stimulation for Parkinson's disease, Deep Brain Stimulation Symposium, November, Brisbane, Australia.
Dr Marloes Dekker Nitert	Interventions, before and during pregnancy, to prevent complications from an overweight pregnancy. Nestle Nutrition Institute Workshop #80, November, Bali, Indonesia.
Dr Bradley Partridge	Concussion Management Guidelines in Australia's Collision Sports: Ethical and Evidential Problems. Sports Ethics Symposium, University of Otago. Dunedin, New Zealand.
Dr Amy Rodriguez	Promoting Neuroplasticity in Aphasia Rehabilitation: Current Trends and Future Possibilities. Danish Speech Pathology Association, May, Copenhagen, Denmark.
Dr Ben Rogers	The role of migrations and tourism in globalization of antimicrobial resistance, European Society of Clinical Microbiology and Infectious Diseases annual congress(ECCMID), April, Berlin, Germany.
	How did we get into this mess: Are animals to blame? Superbugs 2013 Meeting, Australasian Society for Infectious Diseases, Goldcoast, Australia.
Dr Carlos Salomon	The role of placental exosomes in intercellular communication in health and disease, The Changing Panorama of Women's Health: Navigating New Frontiers 9th Singapore International Congress of O&G, August, Singapore.
	Placento-Maternal Transfection: Exosomes as surrogate biomarkers of placental function. Presented at Society for Reproductive Biology meeting, Australian & New Zealand Placental Research Association', August, Sydney, Australia.
	Workshop invitation "Stem cells: from biology to pathology". International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.
	Workshop invitation "Oxygen in placenta development and pathologies". International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.
Dr Hanna Sidjabat	Workshop invitation "Use of 'omics' in understanding placental development and pathologies". International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.
	Overview of genotypic methods for detection of resistance mechanisms. Superbugs workshops, August, Brisbane, Australia.
Dr Hari Subramanian	Cases: Detection of resistance in Enterobacteriaceae (II). Superbugs workshops, August, Brisbane, Australia.
	Neurophysiology – animal models in DBS. Deep Brain Stimulation Symposium, November, Brisbane, Australia.
Professor Sunil Lakhani	Invited speaker: Genomics impact on Anatomical pathology Queenstown Genomics Medicine Meeting, August, Queenstown, New Zealand.
	Invited speaker: Diagnostic challenges in Breast Pathology, perspectives from the new WHO Classification, 59th Autumn Annual meeting of Japanese Society of Pathology, November, Tokyo, Japan.
	Awarded a visiting Professorship by the Royal College of Pathologists to lecture in Malaysia, Singapore and Hong Kong. November.

Appendix 5.0

SEMINARS HELD AT UQCCR IN 2013

Date	Presenter	Title
14/02/2013	Dr Erin Conway & Dr Dan Angus	Examining Effective Conversation Strategies in Dementia Care: The Application of a Computer-Based Conversation Visualisation Tool in Clinical Research
21/02/2013	Dr Susan Patterson	Pragmatic Trials: The Real Guide for Clinical Decision Making? A Critical Perspective
28/02/2013	Dr Carlos Salomon	Exosomes: Surrogate Biomarkers of Placental Function
7/03/2013	Associate Professor Jeroen Pasterkamp	Molecular mechanisms of neural circuit development and disease
14/03/2012	Dr Rob Henderson	The Enigma of MND
21/03/2012	Dr Judy Luigjes	Unravelling Mechanisms of Action of Deep Brain Stimulation in Obsessive Compulsive Disorder: An Imaging Study
18/04/2013	Professor Mark Walker	Utilising Genomics to Understand Group A Streptococcal Evolution and Epidemiology
22/04/2013	Dr Ron Gray	Establishing effects of moderate alcohol consumption on the fetus: can genetic variation help?
9/05/2013	Dr Nic Waddell	Whole Genome Sequencing of Cancer Reveals Mutational Signatures and Suggests New Therapeutic Options
16/05/2013	Dr Jatin Patel	The Placenta: A Reservoir of Fetal Stem Cells
23/05/2013	Dr Hanna Sidjabat	Molecular Epidemiology and Genomics in Multidrug-Resistant Gram-Negative Bacteria and Recent Characterisation By Proteomics
6/06/2013	Professor Scott Bell	Pseudomonas Aeruginosa: Where Do Patients Get It From?
13/06/2013	Mr John Pearson	QCMG: Calling Varaints in Cancer, Using Next-Generation Sequencing
20/06/2013	Dr Jim Pelekanos	Epilepsy – Clinical Overview and Research Possibilities
27/06/2013	Dr James Scott	School Bullying: The Most Important Risk Factor for Mental Illness?
4/07/2013	Associate Professor Kiarash Khosrotehrani	The Tumour Environment in Skin Cancer
11/07/2013	Dr Kerry Richard	Placental Thyroid Hormone Transport
19/07/2013	Professor Michael Farrell	Trends and Issues in Substance Use and Mental Health Problems in Young People
25/07/2013	Dr Derik Steyn	Growth hormone, insulin and beyond - Maintaining fatty acid balance regardless of poor dietary habits
8/08/2013	Dr Jan Heng	Identifying Biomarkers to Predict Preterm Birth
15/08/2013	Professor Greg Montieth	Remodeling of Calcium Signaling in Breast Cancer Cells
22/08/2013	Professor David McIntyre	GDM and Goldilocks – too much, too little or “just right”
29/08/2013	Dr Rik Thompson	“Epithelial Mesenchymal Plasticity (EMP) in Breast Cancer Progression – A Moving Target
4/09/2013	Professor Graham Colditz	Peri Conception Diet and Cancer Risk. Studies at Washington University in St. Louis in the Context of Understanding Obesity and Cancer.
12/09/2013	Professor Graham Galloway, Dr Katie McMahon	Human MRI - High and Ultra High Field at CAI
19/09/2013	Associate Professor Ernst Wolvetang	Taking TALENs To Trisomy 21
3/10/2013	Professor Ian Wright	Microcirculation Matters
10/10/2013	Dr Cynthia Forlini	Reframing Brain Ageing: Balancing Individual Responsibilities and Collective Benefits of Healthy Ageing
17/10/2013	Dr Carla Meurk	How has neurobiology affected public perceptions of addiction? Review of a mixed methods study.
24/10/2013	Dr Elizabeth Williams	Tumour cell plasticity and cancer progression
31/10/2013	Associate Professor Ross Cunnington	Brain processes underlying the planning and preparation for action
7/11/2013	Professor Ian Brereton & Dr Gary Cowin	Pre-clinical, Materials and Molecular Imaging Facility Seminar
14/11/2013	Dr Adrian Carter	Drug-induced Compulsive Behaviour in Parkinson's Disease: Clinical and Legal Implications.

Appendix 6.0

RESEARCH HIGHER DEGREE STUDENTS

Completions in 2013

UQCCR supervisors are shown in bold.

Student	Degree	Supervisors	Project Title
Majeed, Ahmad Abdul	PhD	<b>Associate Professor C Farah, Dr A Dalley</b>	Identification of Novel Molecular Biomarkers for Oral Epithelial Dysplasia
Crombie, Anthony	MPhil	<b>Associate Professor C Farah</b> , Dr M Batstone	Primary Chemoradiotherapy for Oral Cavity Squamous Cell Carcinoma: Survival and health-related quality of life
Heazlewood, Celena	PhD	Professor M Atkinson, Dr G Brooke, <b>Professor N Fisk</b>	A comparative study of fetal and maternal derived mesenchymal stromal cells from the term placenta for cellular therapy
Karayannis, Nicholas	PhD	<b>Professor P Hodges</b> , Professor G Jull	The Characterisation of Movement-Based Subgroups in Low Back Pain: An Investigation of Overlap, Motor Control and Psychological Considerations
Lee, Linda-Joy	PhD	<b>Professor P Hodges</b> , Dr M Coppieters Associate Professor K Khan	Motor Control & Kinematics of the Thorax in Pain-free Function
Ramesh, Krishnan Narayanan	PhD	Dr R Wallace, <b>Professor P McCombe</b> , Dr M Mangelsdorf	Molecular analysis of the motor neuron disease-associated protein, TDP-43
Sauer, Evan	PhD	<b>Dr J Greer</b> , Professor M Pender	Altered peptide ligands as therapeutic agents for a model of multiple sclerosis: Determining the signature of clinical efficacy
Seppanen, Elke	PhD	<b>Professor N Fisk, Associate Professor K Khosrotehrani</b>	Endogenous stem cell behaviour in tissue repair: lessons from fetal microchimerism
Van Hal, Sebastian	PhD	<b>Professor D Paterson</b>	Predictors of mortality in Staphylococcus aureus bacteraemia: the role of Reduced Vancomycin Susceptibility
Calderon, Ana Vargas	PhD	<b>Professor S Lakhani, Dr P Simpson</b>	Clinical-Pathological and Molecular Analysis to Understand Breast Cancer Progression
Wixey, Julie	PhD	<b>Dr K Buller, Dr T Bjorkman</b>	Effects of Hypoxia-Ischemia on the Serotonergic System in the Neonatal Brain
Yamada, Miko	PhD	Associate Professor G Gobe, Professor D Johnson, <b>Professor P Colditz</b>	Mechanisms of cytoprotection by erythropoietin (EPO) in hypoxia/ ischaemia-injured neonatal brain
Dost, Fatima	MPhil	<b>Associate Professor C Farah</b> , Dr P Ford	Potentially malignant oral disorders: a study of clinical and histopathological indicators.
Denny, Kerina	PhD	Professor S Taylor, Professor L Callaway, <b>Professor P Colditz</b> , Professor T Woodruff	The Role of C5a in Pregnancy and Fetal Development
Stafford, Ryan	PhD	<b>Professor P Hodges</b> , Professor J Ashton Miller	Is motor recovery related in clinical change
Elgueta Cancino, Edith	MPhil	<b>Professor P Hodges</b> , Dr S Schabrun	Changes in cortex representation of multifidus provoked by different types of motor training of the lumbar paraspinal muscles



Enrolments in 2013

UQCCR supervisors are shown in bold.

Student Name	Degree	Supervisors	Project Title	Start Date
Sarker, Suchismita	MPhil	<b>Professor G Rice, Professor M Mitchell</b>	Predicting preterm labour to prevent perinatal mortality and morbidity	10/01/2013
Maguire, Andrea	MPhil	Dr P Ford, <b>Dr C Gartner</b>	Embedding oral screening into general health in Indigenous health care	19/02/2013
Rowe, Casey	PhD	<b>Associate Professor K Khosrotehrani</b> , Dr N Hayward	Prognostic factors in early stage invasive melanoma	04/02/2013
Thomas, Hannah	PhD	<b>Dr J Scott</b> , Dr P Connor	Beyond the classroom and into the cyber world, next generation research into adolescent bullying	03/04/2013
Awal, Abdul	PhD	<b>Professor P Colditz, Professor B Boashash</b>	Classification and localization of neonatal EEG abnormalities using time frequency image processing based neural network and support vector machine	08/04/2013
Klyne, David	PhD	<b>Professor P Hodges</b> , Professor M Barbe	Biological factors predictive of low back pain outcome	01/03/2013
Devine, Mathhew	MPhil	Dr R Henderson, <b>Professor P McCombe</b>	Limb Dominance and cortical features of Amyotrophic Lateral Sclerosis (ALS)	03/04/2013
Green, Benjamin Paul	MPhil	<b>Professor S Lakhani, Dr P Simpson</b>	Prospective study of patients with breast tumours and discovery of potential biomarkers and therapeutic options	08/04/2013
Ng, Keng Lim	PhD	Mr S Wood, Dr G Globe, <b>Professor R Gardiner</b> , Dr M Christudas	Better molecular signatures for renal oncocytomas versus chromphobe renal cell carcinoma.	25/02/2013
Pagnozzi, Alex	PhD	<b>Dr S Rose</b> , Dr Y Gal, Dr N Dawson	Automatic construction of normal and abnormal tissue models from mined datasets for delineation of abnormalities	08/04/2013
Etudaye, Itopa Ajayi	PhD	<b>Dr H Subramanian</b> , Professor P Mills, Dr S Collins	Magnetic resonance neuroimaging of the brain of some domestic animal species	25/03/2013
Aideen McInerney, Leo	PhD	<b>Associate Professor E Duncan</b> , Associate Professor B Meiser, Professor M Brown	Exome sequencing for gene discovery and gentic testing in Menddelian disorders	02/04/2013
Wall, Kylie Janine	PhD	<b>Associate Professor D Copland, Dr Amy Rodriguez</b>	Prognostic factors of fMRI in recovery of cognition and language post stroke	01/07/2013
McKirdy, Natalie Charnise	PhD	<b>Professor M Mitchell, Professor G Rice</b>	Characterisation of inflammatory pathways associated with preterm birth	25/06/2013
Jensen, Charmaine	PhD	<b>Associate Professor J Lucke, Professor W Hall , Dr B Partridge</b>	Non medical use of prescription stimulants by Australian University students: Attitudes, prevalence of use and motivation.	01/07/2013
Isaacs, Megan	PhD	<b>Associate Professor D Copland</b> , Dr A Angwin, Dr K McMohan	Control of language production and it's neural substrates	15/07/2013
Banney, Rebecca	PhD	Dr W Arnott, Dr K McMohan, <b>Associate Professor D Copland</b>	Narrative assessment and the autism diagnostic observation schedule (ADOS)	16/07/2013
Lai, Melissa	MPhil	<b>Professor P Colditz</b>	Environmental manipulation of the very preterm infant: Can dense array EEG detect developmental differences at term equivalent age	27/08/2013
Bell, Christopher	MPhil	<b>Associate Professor S Rose</b> , Dr Y Gal	Molecular imaging: new technologies for patient care	03/07/2013
Odenthal, Cara	MPhil	Professor A Coulthard, Professor L Callaway, <b>Associate Professor S Rose</b>	Can MRI at 3 and 5 years after first demyelinating event detect reduction in brain volume in patients who progress to clinically definite MS compared to those who do not?	06/09/2013
Reid, Lee Bremmer	PhD	<b>Associate Professor S Rose</b> , Dr R Boyd, Associate Professor R Cunningham	Measuring neuroplasticity in children with acquired brain injury using diffusion and functional MRI	07/08/2013
Byrom, Lisa	MPhil/ MBBS	<b>Associate Professor K Khosrotehrani</b> , Professor A Green	Influence of pregnancy on prognosis of melanoma	15/02/2013
Huang, Jhih-Ting	PhD	Dr A Angwin, <b>Associate Professor D Copland</b>	Effects of repetitive transcranial magnetic stimulationand respiratory exercise therapy on voice and speech in patients with parkinson's disease	01/03/2013
John, Keziah	MPhil	<b>Associate Professor C Farah, Dr A Dalley</b>	Distinction of miRNA expression in human papillomavirus-infected and non-infected oral premalignant lesions and squamous cell carcinomas	16/09/2013
Webster, John	MPhil	<b>Associate Professor C Farah</b> , Dr M Matias	Opportunistic oral cancer screening in Australia: investigating knowledge, attitudes and behaviour of general medical practitioners and medical students	30/09/2013
Wu, Jennifer	MPhil	<b>Associate Professor C Farah, Dr A Dalley</b>	Varying microRNA expression in the transition from dysplasia to oral squamous cell carcinoma and its predictive and prognostic value	16/09/2013
Forbes, Elizabeth	MPhil	<b>Dr B Lingwood</b>	Changes in cardiac structure and biochemistry during transition to extra uterine life in preterm and term piglets	16/09/2013

Ongoing Students

UQCCR supervisors are shown in bold.

Student Name	Degree	Supervisors	Project Title
Adnan, Syamhanin	PhD	<b>Professor D Paterson</b> , Associate Professor J Roberts, <b>Dr J Lipman</b> , Dr S Wallis	Improving Antibiotic Use in Critically Ill and Immunocompromised patients
Awabdy, Doreen	PhD	<b>Professor P Colditz, Dr T Bjorkman</b>	Neuroprotection and Neuroreceptor Ontogeny in the Developing Brain
Blum, Stefan	PhD	<b>Associate Professor P McCombe, Dr J Greer</b>	Pathogenesis of Guillain-Barre syndrome and chronic inflammatory polyradiculoneuropathy
Dong, Shiying	PhD	<b>Professor P Colditz, Professor B Boashash, Dr B Lingwood, Dr G Azemi</b>	Heart rate variability for assessment of autonomic nervous system function in neonates
Fattahi, Fariba	PhD	<b>Professor P Hodges</b> , Associate Professor H Karimi	Structure and function of the trunk muscles in low back pain
Flanagan, Kieran	PhD	Dr A Angwin, <b>Associate Professor D Copland</b>	The role of perceptual symbols in the representation of semantic concepts in dementia
Francis, Glenn	PhD	<b>Associate Professor C Farah</b> , Dr G Beadle	Protein expression and molecular Professoriling using tissue microarrays to predict lymph node status in breast cancer
Gildea, Jan	PhD	<b>Professor P Hodges</b> , Dr J Hides	The activation pattern of trunk and pelvic muscles during loading through the foot in dancers and non-dancers with and without low back pain
Harper-Hill, Keely	PhD	<b>Associate Professor D Copland</b> , Dr W Arnott	Does language processing in individuals with ASD vary as a function of modality under conditions of increased stress?
Hemsley, Gayle	PhD	Professor B Dodd, <b>Dr Alison Holm</b>	Language learning outcomes in early sequential bilinguals
Higgs, Crystal	PhD	Dr P Dodd, Dr R Tannenberg, <b>Associate Professor G Byrne</b>	The role of vesicular glutamate and GABA transporters in Alzheimer's disease
Jessri, Maryam	PhD	<b>Associate Professor C Farah, Dr A Dalley</b>	Cancerous & precancerous lesions of oral cavity and comparisons of their genetic Professorile in young and old patients: MMR genes
Kamolvit, Witchuda	PhD	<b>Professor D Paterson, Dr H Sidjabat</b>	Carbapenem resistance in commonly encountered Gram negative bacilli
Kim, Min Young	PhD	<b>Dr B Lingwood</b> , Dr A Boyce, Dr K Gibson	Myocardial development in the preterm piglet
Kong, Fiona Yin Mei	PhD	Dr A Clements, <b>Professor D Paterson</b> , Professor M Whitby, Professor M Corry,	Novel approaches to the surveillance of healthcare acquired infections
Lai, Foon	PhD	Professor J Mueller, <b>Dr C Gartner</b> , Dr C Ort, Dr S Carter	Occurence and fate of illicit drugs in Australian sewage treatment work
Legrand, Julien	PhD	<b>Associate Professor K Khosrotehrani, Professor N Fisk, Dr A Brooks</b>	Mesenchymal-Epidermal interactions in skin wound regeneration
Leveque, Lucie	PhD	<b>Associate Professor K Khosrotehrani</b> , Dr G Hill, Dr K MacDonald	Auto-immunity and allogenic chimerism acquired during pregnancy
McCarthy, Kate	PhD	<b>Professor D Paterson</b>	Pseudomonas aeruginosa bloodstream infections: Clinical and molecular epidemiology, antibiotic resistance mechanisms, treatment and outcome
Miller, Stephanie	PhD	<b>Dr T Bjorkman</b> , Dr P Noakes	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Cloake, Nancy	PhD	<b>Dr J Greer</b> , Professor M Pender	The role of PLP in multiple sclerosis
Murphy, Jenifer	PhD	<b>Associate Professor G Byrne</b> , Associate Professor N Pachana	Treatment-resistant depression
Nayler, Samuel	PhD	<b>Professor M Lavin</b> , Associate Professor E Wolvetang	Ataxia telangiectasia and induced pluripotent stem cells
Omidvarnia, Amir	PhD	<b>Professor P Colditz</b> , Dr M Mesbah, <b>Professor B Boashash, Dr S Vanhatalo</b>	EEG background abnormalities: Analysis and classifications
Pannek, Kerstin	PhD	<b>Associate Professor S Rose, Professor P Colditz</b>	Development of novel structure-function connectivity analysis strategies to improve identification of brain injury and neural plasticity in the neonate brain
Peiris, Hassendrini	PhD	<b>Professor M Mitchell</b>	The role of myostatin in the placenta
Rawlings, Alicia	PhD	<b>Associate Professor D Copland</b> , Dr K McMahon	The modulation of adult new word learning by dopamine
Reinebrant, Hanna	PhD	<b>Dr K Buller, Professor P Colditz</b>	The central serotonergic system in the preterm neonate following hypoxic-ischemic brain injury
Rogers, Benjamin	PhD	<b>Professor D Paterson, Professor T Walsh, Dr H Sidjabat</b>	Clinical, epidemiological and molecular characteristics of E.coli (Escherichia coli) infection and its antimicrobial resistance

Student Name	Degree	Supervisors	Project Title
Roxbury, Tracy	PhD	<b>Associate Professor D Copland</b> , Dr K McMahon	Neurophysiological markers of language recovery in acute stroke.
Sa Ariwijaya, Mohd Shazrul	PhD	<b>Professor M Lavin</b> , Dr M Gatei	Substance abuse: A correlation between DNA damage to ageing
Sindi, Ikhlas	PhD	<b>Associate Professor G Byrne</b> , Dr R Tannenberg, Dr Dodd	Disruption of nerve-cell connections in Alzheimer's disease through the assay of the trans-synaptic proteins: neurexins and neuroligins
Stewart, Romal	PhD	<b>Professor M Lavin</b> , Dr S Kozlov	A cellular model to investigate the role of ATM in the nervous system
Tattersall, Timothy	PhD	Professor P Sah, <b>Associate Professor G Byrne</b> , Dr F Windels	Neural mechanisms that underlie emotional memory formation and extinction
Van den Hoorn, Wolbert	PhD	<b>Professor P Hodges</b> , Professor J van Dieen, Associate Professor F Hug, Professor G Kerr	Mechanisms underlying the coordinated an dysfunction of muscles used for breathing and postural tasks
Van Hees, Sophia	PhD	<b>Associate Professor D Copland</b> , Dr A Angwin, Dr K McMahon	Brain mechanisms of language treatment post-stroke
Vaska, Vikram	PhD	<b>Professor D Paterson</b> , Dr G Nimmo	Clinical, health economic, epidemiologic and molecular epidemiologic and diagnostic aspects of staphylococcus aureus infections in Queensland.
Williams, Rebecca	PhD	Dr J Hocking, <b>Professor D Reutens</b>	The role of the medial temporal lobes in memory and the validation of diffusion functional magnetic resonance imaging in functional brain imaging
Williams, Julian	PhD	Professor J Lipman, <b>Professor D Paterson</b>	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection
Zowawi, Hosam	PhD	<b>Professor D Paterson</b> , <b>Dr H Sidjabat</b>	The prevalence of metallo-beta-lactamse producing enterobacteriaceae, Pareuginosa, Acinetobacter spp in tertiary and academic healthcare centres in Saudi Arabia
Momeny, Majid	PhD	<b>Professor S Lakhani</b> , <b>Professor G Rice</b> , <b>Dr J Saunus</b> , Professor G Chenevix-Trench	Identification of the roles of HER-family receptors in breast cancer metastasis to brain
odebaee, Maryam	PhD	<b>Professor P Colditz</b> , <b>Professor B Boashash</b> , <b>S Vanhatalo</b>	Non-stationary signal processing methods for newborn seizure prediction
Harris, Lisa Jane	PhD	<b>Professor M Mitchell</b> , Professor L Callaway	Pre-eclampsia: The early detection of at-risk pregnancies, management and long term implications
MA, Norman	MPhil	<b>Dr T Bjorkman</b> , <b>Professor P Colditz</b> , W Craig	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions
Sheikh, Nabeel	PhD	<b>Dr S Finnigan</b> , A Wong, S John Read	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke
Sam, Sonia	PhD	<b>Dr B Lingwood</b> , <b>Professor P Colditz</b> ,	Cardiovascular factors associated with poor outcome in preterm infants
Sahama, Ishani	PhD	<b>Associate Professor S Rose</b> , <b>Professor M Lavin</b>	Investigating connectivity and neuroinflammation within corticomotor networks in ataxia-teleangiectasia: Improving our understanding of the clinical phenotype
Iyer, Kartik	PhD	Professor M Breakspear, Dr S Vanhatalo, <b>Dr S Finnigan</b>	EEG signatures of recovery from post-natal hypoxia
Thomas, Georgia	PhD	<b>Associate Professor D Copland</b> , Associate Professor K McMahon, Ms E Finch	Presurgical mapping of language in patients with brain tumours.
Stockill, Jade	PhD	<b>Associate Professor D Copland</b> , <b>Dr A Rodriguez</b>	Investigating the effect of intensity of aphasia therapy on language outcomes in people with aphasia.
Tseng, Hsu-Wen	PhD	Professor G Thomas, <b>Dr A Pettit</b> , Professor M Brown	Novel treatment approaches to prevent joint fusion in ankylosing spondylitis
Raghavendra, Ashwini	PhD	<b>Professor S Lakhani</b> , Dr G Chenevix-Trench, <b>Dr J Saunus</b> , <b>Professor M Sanders</b>	Studying mammary epithelial lineage differentiation and breast cancer predisposition using inducible pluripotent stem cell technology
Herd, Michael	PhD	Dr K Whittingham, Dr R Boyd, <b>Professor P Colditz</b> , Professor E Wolvetang	Efficacy of Prem Triple P as an intervention to support families of very preterm infants
Kutasovic, Jamie Rose	PhD	<b>Dr P Simpson</b> , <b>Professor S Lakhani</b> , <b>Dr A Reed</b>	Investigating the role of E-cadherin in breast cancer development and progression to metastasis
Lazarus, Syndia	PhD	<b>Associate Professor E Duncan</b> , <b>Dr A Pettit</b> , Professor A Zankl, Professor M Brown	Gene mapping in skeletal dysplasias
Mcrae, Prudence	MPhil	Professor A Mudge, <b>Professor P Walker</b> , Professor M Peel	Identifying interdisciplinary care needs in older surgical patients
Yeates, Sarah	PhD	Professor J Leach, <b>Professor W Hall</b> , <b>Associate Professor J Lucke</b>	Addiction neuroscience meets alcohol policy: emergent meaning in discoured about alcohol, the brain and behaviour and their implications for ethical communication and evidence based policy for harm reduction
Scheck, Simon	PhD	<b>Associate Professor S Rose</b> , Professor R Boyd	Motor, Sensory and visual brain networks in children with unilateral Cerebral Palsy

Student Name	Degree	Supervisors	Project Title
Moore, Kelsey	MPhil	Dr P Ford, <b>Associate Professor C Farah</b>	The treatment experience and support needs of oral cancer patients and their caregivers: quality of life implications and recommendations of multidisciplinary approaches to treatment
Wailan, Alexander	PhD	<b>Dr H Sidjabat</b> , <b>Professor D Paterson</b>	Genome and plasmid characertistics of NDM-1 and OXA181 producing Enterobacteriaceae
Morphett, Kylie	PhD	<b>Professor W Hall</b> , <b>Dr A Carter</b> , <b>Dr C Gartner</b>	A disease of the brain: How do neurobiological explanations of addiction influence the attitudes and behaviours of smokers?
Layeghy, Siamak	PhD	<b>Professor P Colditz</b> , <b>Professor B Boashash</b> , <b>Dr Ghasem Azemi</b>	Fetal movement detection and classification
Schleiger, Emma	PhD	<b>Dr S Finnigan</b>	Ameliorating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals
Alruwaili, Ashwag	PhD	<b>Professor P McCombe</b>	The use of magnetic resonance imagine (MRI) to measure the rate of loss of upper motor neurons in amoytrophic sclerosis
Airey, Caroline	PhD	<b>Professor P McCombe</b> , Professor R Henderson	The CMAP scan in Motor Neuron Disease and Peripheral Neuropathy as a marker of early disease and disease progression
Lalla, Yastira	MPhil	<b>Associate Professor C Farah</b> , Dr Marie Matias	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
Yeo, Jie Abrey	PhD	<b>Professor M Lavin</b> , Professor J Becherel, Dr S Kozlov	The role of ATM in neurodegeneration and transcription regulation in the nervous system of animal models
Quek, Hazel	PhD	Dr T Roberts, <b>Professor M Lavin</b>	Characterisation of novel pathways involved in the cellular responses to cytosolic DNA
George, Joanne	PhD	Professor R Boyd, <b>Professor P Colditz</b> , <b>Associate Professor S Rose</b>	Prediction of motor outcomes based on early brain structure
Dingwall, Steven	PhD	<b>Professor M Lavin</b>	Generation of induced pluripotent stem cells from ataxia-telangiectasia patients
Evans, Tracey	PhD	Dr K Whittingham, Professor R Boyd, <b>Professor P Colditz</b> , Professor M Saunders	Improving mother and child attachment patterns following preterm birth: An RCT of Prem Triple-P
Baz, Betoul	PhD	<b>Associate Professor K Khosrotehrani</b> , <b>Professor G Rice</b> , <b>Dr J Patel</b>	Sequencing based identification of skeletal dysplasia genes
Anchong, Naomi	PhD	Professor L Callaway, <b>Dr E Duncan</b> , Dr H McIntyre	Insulin requirements in pregnant women with type 1 diabetes mellitus during late pregnancy and the peripartum period
Northwood, Korinne	PhD	Professor M Brown, <b>Professor S Lakhani</b>	Investigation of genetic and epigenetic regulation of non-coding RNAs in metastatic breast cancer
Marquess, John	PhD	Professor A Clements, <b>Professor D Paterson</b> , Professor T Riley, Professor L William	A longitudinal molecular epidemiological study to investigate changes in prevalence of asymptomati Clostridium difficile carriage in hospital patients over three years
Erskine, Holly	PhD	<b>Dr J Scott</b> , Professor H Whiteford	The epidemiology of conduct disorder and implications for interventions
Mills, Natalie	PhD	Professor N Wray, Professor M Wright, <b>Dr J Scott</b> , <b>Professor G Byrne</b> , Associate Professor N Martin	The role of cytokines in depression and cognition in adolescents
Wallace, Angela	PhD	Professor J Barendregt, Professor E Theo, <b>Professor W Hall</b>	Epidemiological modelling and economic evaluation of tobacco control policies for setting priorities in the total and Indigenous population of Australia
Johannes Kerbler, Georg Martin	PhD	Professor Elizabeth Coulson, <b>Associate Professor S Rose</b>	Regulation for p75-mediated neurodegeneration in the cholinergic basal forebrain
Brandenburg, Caitlin	PhD	Professor L Worrall, <b>Associate Professor D Copland</b> , <b>Dr Amy Rodriguez</b>	Development and evaluation of the communicative fitness approach to aphasia intervention
Babbitt, Edna	PhD	Professor L Worrall, Professor L Cherney, <b>Associate Professor D Copland</b>	Investigations into Intensive Comprehensive Aphasia Programs (ICAPs)
Vu, An	MPhil	<b>Associate Professor C Farah</b> , Dr M Matias	Identafi: a retrospective diagnostic criteria
Currie, Sean	MPhil	<b>Associate Professor C Farah</b> , <b>Dr A Dalley</b>	Alcohol-containing mouthwashes: Cellular and molecular changes
Bhatia, Nirav	MPhil	<b>Associate Professor C Farah</b> , Dr M Matias	Efficacy of VELscope in clinical practice and a histopathological correlation with lichenoid lesions
Allen, Kristine	MPhil	<b>Associate Professor C Farah</b> , Dr P Ford	Barriers to early detection of oral cancer: perceptions and experience of patients and healthcare providers
Sardesai, Varda	PhD	<b>Professor N Fisk</b> , <b>Dr R Pelekanos</b>	Comparison of the differentiation potential of primary and pluripotent stem cell-derived mesenchymal stem cells in vitro and in vivo
Caesar, Rebecca	PhD	Associate Professor R Boyd, <b>Professor P Colditz</b>	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants



Student Name	Degree	Supervisors	Project Title
Lee, Kevin	PhD	Professor C Chen, Mr F Steyn, <b>Dr S Ngo</b>	Metabolic and neuroendocrine Professorile of amyotrophic lateral sclerosis mouse models
Bergin, Michael	PhD	Dr K Tucker, Professor G Vicenzino, <b>Professor P Hodges</b>	How does the human motor control system adapt to pain?
Poortvliet, Peter	PhD	Dr K Tucker, <b>Professor P Hodges</b>	Discovering the neuromuscular mechanisms behind movement changes with pain
Abbey, Karen	PhD	<b>Professor S Capra</b> , Dr O Right	Better practice in food and nutrition services: menu planning and design to deliver optimal nutrition to residential aged care
Bell, Jack	PhD	Associate Professor J Bauer, <b>Professor S Capra</b>	Identifying and overcoming barriers to the appropriate nutritional support of hip fracture patients
Hale, Kelli	PhD	<b>Professor S Capra</b> , Associate Professor J Bauer	Novel dietetic interventions: can they deliver better outcomes when compared to conventional approaches in community-dwelling adults
McDonald, Cameron	PhD	Associate Professor J Bauer, <b>Professor S Capra</b>	The effect of fish oil, exercise and other nutrition factors on lean mass and total body weight in post-treatment breast cancer patients
Barrett, Helen	PhD	Professor L Callaway, <b>Dr M Dekker</b> , Dr H McIntyre	Maternal lipids in pregnancy
Johnson, Stephanie	PhD	<b>Associate Professor E Duncan</b> , Dr M Harris, Dr L Conwell, Professor D Venter	Evaluating the efficacy of next generation DNA sequencing in the diagnosis of disorders of beta cell function
Matusiak, Kristine	MPhil	Professor L Callaway, <b>Dr M Dekker</b>	Periconception weight loss: what are the effects on the HPA axis in the infant?
Economou, Caleb	PhD	Dr J Roberts, Dr B Richards, <b>Professor J Lipman</b>	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy
Liu, Chao	PhD	Professor M Ragan, Dr K Le Cao, <b>Dr P Simpson</b>	A systems biology approach to defining therapeutic targets in breast cancer.
Roberts, Matthew	PhD	<b>Professor F Gardiner</b> , Dr H Schirra	Putative biomarkers for early detection of Prostate Cancer
Tsao, Henry	MPhil/ MBBS	<b>Associate Professor S Rose</b> , Dr R Boyd	Unraveling plasticity of sensorimotor pathways of the basal nuclei in children with cerebral palsy
Al-Theyab, Nada	PhD	<b>Dr B Lingwood, Professor P Colditz</b> , Associate Professor T Donovan	Determination of Vitamin D status and intake of adolescent school girls in central region, Saudi Arabia

Appendix 7.0

CLINICAL TRIALS 2013

Clinical Trial	Chief Investigator/s
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.
“Randomised Study of Robotic and Open Prostatectomy”: The purpose of this study is to evaluate these procedures in terms of clinical and oncological parameters, psychosocial aspects and costs to both individuals and the health system.	Professor Robert ‘Frank’ Gardiner (Principle Investigator).
“A Double Blind, Placebo–controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Receiving Demosumab for bone loss due to Androgen-Deprivation Therapy”.	Dr Geoff Coughlin (Sub-investigator), Dr John Yaxley (Sub-investigator).
Prevail: “A Multinational Phase 3, Randomised, Double –Blind, Placebo-controlled efficacy and safety study of oral MDV3100 in Chemotherapy”- Naive Patients with Progressive Metastatic Prostate Cancer who have failed Androgen Deprivation therapy.	Dr Alison Hadley Med Oncologist (Sub-investigator).
Early Detection Study: Developing a non-invasive test for Prostate Cancer detection. Researchers have employed PCR, ELISA, MALDI-TOF and metabonomic spectroscopy to discriminate cancer from non-cancer.	
“A prospective study of sexual function in sexually active men treated for BPH”	
“Dopaminergic modulation of adult new word learning: A functional imaging investigation”.	Associate Professor David Copland, Alicia Rawlings, Jeffrey Mahoney, Dr Anna MacDonald,
This study aims to investigate the role of the neurotransmitter dopamine in new word learning and language processing in adults. Levodopa, a dopamine precursor, is administered to healthy individuals prior to language learning sessions, in a double-blind, placebo-controlled study design. Neural correlates of new word learning modulated by dopamine are investigated using behavioural methods, functional MRI and event-related EEG.	Dr Katie McMahon and Professor Peter Silburn.
“Learning and language processing in people with Parkinson’s disease.” This project investigates the neural basis for language deficits in Parkinson’s disease using brain imaging (fMRI)	Associate Professor David Copland, Dr Nadeeka Dissanayaka, Peter Bell, Professor Peter Silburn, Dr Katie McMahon, Professor Helen Chenery and Dr Anthony Angwin.
“Cognitive sequelae in Parkinson’s disease: Identifying the neural substrates”  This study aims to identify the neural substrates of cognitive-linguistic impairments in Parkinson’s disease by utilizing EEG.	Dr Anthony Angwin, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Dissanayaka and Professor Peter Silburn.
“Striatal dopamine function in human cognition: Insights from language, learning and reward in Parkinson’s disease and pharmacological challenge.”  This study investigates the learning and language processing in Parkinson’s disease patients who have had deep brain stimulation (DBS) functional neurosurgical treatment	Dr Anthony Angwin, Professor Peter Silburn, Associate Professor David Copland and Dr Nadeeka Dissanayaka.
“Improving diagnostic methods of anxiety and depression in Parkinson’s disease.”  This study aims to define the phenotype of anxiety and depression in Parkinson’s disease. It also Investigates early markers for anxiety in Parkinson’s disease using psycholinguistic (affective priming) paradigms and imaging (electroencephalography, EEG).	Dr Nadeeka Dissanayaka, Associate Professor David Copland, Professor Peter Silburn, Associate Professor John O’Sullivan, Professor Gerard Byrne, Dr Rodney Marsh, Associate Professor George Mellick, Elizabeth Torbey (Doctorate in Clinical and Clinical Neuropsychology student), Elizabeth White (vacation scholar, MBBS student), Ricky Nells (vacation scholar, MBBS student) and Tiffany Au (research assistant).
“Emotional inhibition in Parkinson’s disease”  This projects aims to identify emotional inhibition in Parkinson’s disease patients with and without affective disturbances using psychological paradigms coupled with EEG.	Dr Nadeeka Dissanayaka, Associate Professor David Copland, Dr Anthony Angwin, David Hennessy (Doctorate in Clinical Psychology student), Associate Professor John O’Sullivan and Professor Peter Silburn.

Clinical Trial	Chief Investigator/s
"Perspectives and experiences of Parkinson's disease patients with drug induced impulse control disorders and dopamine dysregulation syndrome"	Dr Adrian Carter, Dr Nadeeka Dissanayaka, Professor Wayne Hall, Associate Professor John O'Sullivan, Dr Rodney Marsh and Peter Bell (research assistant).
This qualitative study aims to identify the phenomenology of DRT-induced impulse control disorders, patients' understanding of their condition and their ability to control their behaviours, and patients' moral identity and beliefs about their personal responsibility.	
"Cognitive behavioral therapy to treat anxiety and depression in Parkinson's disease"	Professor Nancy Pachana, Dr Nadeeka Dissanayaka, Dr Leander Mitchell, Professor Gerard Byrne, Professor Peter Silburn, Associate Professor John O'Sullivan, Dr Rodney Marsh, Professor Sergio Starkstein, Associate Professor Romulo Bucks, Dr Ken Laidlaw and Dr Sarah Egan.
This project aims to design and implement cognitive behavioral therapy for Parkinson's disease patients.	
"Mindfulness for Parkinson's disease"	Dr Nadeeka Dissanayaka, Dr Paul Harnett, Professor Nancy Pachana, Farah Idu Jion (Doctorate in Clinical and Clinical Neuropsychology student), Associate Professor John O'Sullivan, Professor Peter Silburn, Dr Rodney Marsh, Professor Gerard Byrne and Associate Professor George Mellick.
This project investigates the benefits of mindfulness group therapy to alleviate depression, anxiety, cognitive dysfunction and parkinsonism symptoms in Parkinson's disease.	
Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, 12-Month Trial of Leucomethylthioninium bis(hydromethanesulfonate) in Subjects with Mild to Moderate Alzheimer's Disease	Professor Gerard Byrne, Dr Vicki Naumann, Dr Kana Appadurai, Ms Liz Arnold and Ms Lyn Isabel.

Appendix 8.0

STAFF LISTING 2013

Centre Director

Professor Murray Mitchell

Theme Leaders

Professor Helen Chenery  
Professor Paul Colditz  
Professor Robert 'Frank' Gardiner  
Professor Sunil Lakhani  
Professor Pamela Mccombe  
Professor David Paterson  
Professor Gregory Rice

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Professor Wayne Hall  
Professor Martin Lavin  
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Professor Philip Walker  
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Associate Professor David Copland  
Associate Professor Terry Coyne  
Associate Professor Camile Farah  
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Dr Nigel Bennett  
Dr Tracey Bjorkman  
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Dr Andrew Dalley  
Dr Marloes Dekker  
Dr Nadeeka Dissanayaka  
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Dr Simon Finnigan

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Thank you to all academic and professional staff who have contributed to the production of the UQCCR 2013 Annual Report.

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