**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 our partners in the research transforming 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.

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 Cartier, 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 unswerving 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.
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’.

Outstanding Student Award
Stephanie Miller receiving the Siemens 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’.

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 mass spectrometry equipment at the NATA Accreditation.

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).

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).

Funding Success
Professor Helen Chenery, Director of the Asia-Pacific Centre for Neuromodulation (APCN), is a Chief Investigator on a 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.

New Centre of Excellence
The APCN’s research into computational language analyses for people with Parkinson’s and Alzheimer’s disease.

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 cytotoxicblast-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).
AWARDS from 2013

LEADING NEUROLOGIST AWARDED AUSTRALIA DAY HONOUR

"SMART DRUGS" RESEARCHER RECEIVES TALL POPPY AWARD
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.
SUPERBUGS KNOW NO BORDERS

WORKING TOGETHER TO IDENTIFY PREGNANT WOMEN AT RISK

GLOBAL Impact

PARTNERSHIP PROMOTES
THE EXCHANGE OF GREAT IDEAS
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.”

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

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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.”
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 Ilanes, 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 placation. 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).

OF THE 130 MILLION BABIES BORN AROUND THE WORLD EACH YEAR, A SHOCKING 8 MILLION DIE BEFORE THEIR FIRST BIRTHDAY.
TRANSLATIONAL Impact

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.

“The ambitious goal 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.
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.”

“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.

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

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.
COMMUNITY Impact

PARTNERSHIP ENCOURAGES COOPERATION

THE PERILS OF DRINKING DURING PREGNANCY

COLLABORATION ADVANCES MS RESEARCH
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.
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.

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

“It 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 Immunologist Dr Judith Greer
Partner Organisation: MS Research Australia
Email: j.greer@uq.edu.au

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.
CLINICAL Impact

科学家们联合起来解开乳腺癌的秘密

新成像设施，促进早期癌症诊断

防止与妊娠相关的悲剧如死产
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 to the HIRF is its location 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.

**NEW IMAGING FACILITY**

**for earlier CANCER DIAGNOSIS**

**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.

“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.

**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
Herston Imaging Research Facility located adjacent to UQCCR
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.

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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, Professor 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.

“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.”

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.

PREVENTING PREGNANCY RELATED tragedy like stillbirth

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

Professor Paul Colditz speaking at the 2013 Butterfly Ball
COMMUNITY Engagement

- Commumity Engagement
- Butterfly Babies
- BBC Student Scientist Partnership Program
- Parkinson's Queensland Support Groups
- 2013 Theo Murphy High Flyers Think Tank
- Pathology Day
- Engaging Students in Science
- Austrialian Fetal Alcohol Spectrum Disorder Conference
- Unity Walk For Parkinson's
- Information Session About The Social Implications Of Brain Disease
- Theo Murphy High Flyers Think Tank
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 Lahiri, 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
APCON neuropathologist, Dr Hari Subramanian was selected to participate in the 2013 Theo Murphy 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, Harvey Bay and the Gold Coast. Dr Adrian Carter and Dr Nadieka Dissanyake 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 McAuk 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.

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
APCON 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.
## 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.

<table>
<thead>
<tr>
<th>Granting Body</th>
<th>Investigators</th>
<th>Project Title</th>
<th>Dates</th>
<th>Total Grant Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>RBWH Foundation</td>
<td>Carterhaff D, Roberts C, Pritchard M, Marley B</td>
<td>High flow nasal cannulae as primary support in the treatment of early respiratory distress</td>
<td>2014-2014</td>
<td>$40,000</td>
</tr>
<tr>
<td>Alzheimer’s Australia Dementia Research Foundation</td>
<td>Conway E, Chenery H, Angwin A, Copland D</td>
<td>Facilitating word retrieval in conversation: Direct intervention for people with progressive aphasia</td>
<td>2013-2014</td>
<td>$43,820</td>
</tr>
<tr>
<td>RBWH Foundation</td>
<td>Donovan T, Lingwood B</td>
<td>Preterm infant’s growth: when and why do the babies get fat?</td>
<td>2013-2013</td>
<td>$38,000</td>
</tr>
<tr>
<td>RBWH Foundation</td>
<td>Henderson R, McCombe P</td>
<td>Using biomarkers to assess disease progression and understanding of MND</td>
<td>2013-2013</td>
<td>$40,000</td>
</tr>
<tr>
<td>Royal Melbourne Institute of Technology</td>
<td>Lee A, Pow D, Poronnik P, Balcar V</td>
<td>The transportome: a coordinated complex regulating brain excitation and inhibition (NHMRC project grant administered by RMIT)</td>
<td>2013-2015</td>
<td>$375,807</td>
</tr>
<tr>
<td>Motor Neuron Disease Research Institute of Australia</td>
<td>Henderson R, McCombe P, Rose S, Wallace R</td>
<td>Use of biomarkers to understand Amyotrophic Lateral Sclerosis</td>
<td>2013-2013</td>
<td>$100,000</td>
</tr>
<tr>
<td>Research Donation Generic</td>
<td>Silburn P, Chenery H</td>
<td>The Human Brain PhD Research Project - Advancing research into Parkinson’s Disease</td>
<td>2013-2015</td>
<td>$75,000</td>
</tr>
<tr>
<td>Research Donation Generic</td>
<td>Chenery H</td>
<td>Intraoperative Recording Equipment for Deep Brain Stimulation</td>
<td>2013-2013</td>
<td>$86,052</td>
</tr>
<tr>
<td>Queensland University of Technology</td>
<td>Khorostehrkhani K, Upton Z, Mills D</td>
<td>Innovation in Diabetic Foot Ulcer (DFU) Wound Care (NHMRC project grant administered by QUT)</td>
<td>2013-2015</td>
<td>$50,000</td>
</tr>
<tr>
<td>Research Donation Generic</td>
<td>Scott J</td>
<td>N-Methyl-D-Aspartate Receptor Research</td>
<td>2013-2015</td>
<td>$20,000</td>
</tr>
<tr>
<td>Australian College of Dermatologists Scientific Research Fund</td>
<td>Khorostehrkhani K</td>
<td>A genome wide approach to identify important genetic determinants of skin wound healing</td>
<td>2013-2013</td>
<td>$24,720</td>
</tr>
<tr>
<td>Research Donation Generic</td>
<td>Lingwood B</td>
<td>An integrated approach to intracranial support in preterm infants</td>
<td>2013-2013</td>
<td>$18,750</td>
</tr>
<tr>
<td>RBWH Foundation</td>
<td>Henderson R, McCombe P</td>
<td>Biomarkers of disease progression in MND</td>
<td>2013-2013</td>
<td>$60,000</td>
</tr>
<tr>
<td>RBWH Foundation</td>
<td>Marsh R, Cole M, Disamansya N, Silburn P, O’Sullivan J</td>
<td>The effects of a wearable, freeze detecting cueing device and venlafaxine on domiciliary heating of gel and falling in Parkinson’s Disease</td>
<td>2013-2013</td>
<td>$40,000</td>
</tr>
<tr>
<td>ARC DECRA</td>
<td>Carter A</td>
<td>Treatment-induced compulsive behaviours: Ethical and policy implications</td>
<td>2014-2016</td>
<td>$395,127</td>
</tr>
<tr>
<td>ARC Discovery Project</td>
<td>Mitchell M, Rice G</td>
<td>Epigenetic and biomarker approaches to improving dairy cow fertility</td>
<td>2014-2015</td>
<td>$300,000</td>
</tr>
</tbody>
</table>

### Granting Body
- NHMRC Project Grant
- NHMRC Career Development Fellowship
- Diabetes Australia Research Trust Project Grant
- UQ Early Career Researcher
- RBWH Foundation
- Australian Dental Research Fund Inc
- RBWH Foundation
- RBWH Foundation
- RBWH Foundation
- RBWH Foundation
- RBWH Foundation
- Qatar National Research Fund
- RBWH Foundation
- NHMRC Postgraduate Scholarship
- RBWH Foundation
- RBWH Foundation
- RBWH Foundation
- RBWH Foundation
- Cancer Leukaemia Fund
- RBWH Foundation
- RCCS Foundation
- UQ QFES
- CURE Brain Cancer Foundation

### Investigators
- Greer J
- Gartner C
- Khosrotehrani K
- Eby Y
- Carter A
- Farah C, Dailey A
- Donovan T, Colditz P, Rose S, Lingwood B
- Meiner M, Copland D, Rodriguez A
- Pritchard MA, Carterhaff D, Hodge D, Scott J
- Boashash B, Colditz P
- P
- Lingwood B, Colditz P
- P
- Rahman S
- Iranmanesh A

### Project Title
- Investigation of the functional role of antioxidants against myelin proteolipid protein in multiple sclerosis
- Public health policies and interventions to reduce tobacco-related harms among socially disadvantaged populations and low probability
- Anti-inflammatory strategies to promote healing of chronic diabetic wounds
- The role of calcium in preterm heart function
- Impulsivity and caregiver burden after deep brain stimulation for Parkinson’s Disease
- Optimising brain development through nutritionally based nutritional interventions in preterm infants
- Mechanical underpinnings underlying language facilitation by transcortical direct current stimulation in post-stroke aphasia
- A longitudinal study of autism, development and parenting in preterm infants (<28 weeks) from 2 to 4 years
- Characterising anxiety in Parkinson’s disease: a psychophysiological and psychophysiological study, comparing to anxious older adults
- Localisation of ERP Abnormalities for Improving Brain Monitoring of Neurodegenerative Disease at Risk of Brain Injury using a multichannel time-frequency signal processing approach
- High precision catheters for measuring blood pressure
- Continuous Monitoring During Acute Stroke Reparation Therapy
- Gene mapping in skeletal dysplasias
- Gene mapping in skeletal dysplasias
- Developing a Non-Invasive composite measure to enhance accuracy of identifying abnormalities in Parkinson’s Disease
- Investigation of new gene involved in Motor Neurone Disease
- Targeting the dural component of basal cell carcinoma
- Improving treatment for preterm cardiovascular compromise
- Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy
- Early identification of high and low risk pregnancies
- Establishment of the Brain Cancer Discovery Collaborative

### Dates
- 2014-2016
- 2014-2014
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- 2013-2014
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, Goldstein, D, Park, D, Lane, A, Wings, I, Simpson, P, Lakshmi S | High risk genetics for bilateral breast cancer | 2013-2015 | $3,000,000 |
FBWH Foundation |Martin, J, Barrie, M, Lucasi, C, Roberts, J, Paterson, D | Are modern methods for aminoacids monitoring superior to existing approaches? A randomised controlled trial | 2013 | $38,500 |
NHMRC Project Grant |Pwe, D, Lee, A, Balkar, V, Posporn, P | The transportome: a coordinate complex regulating brain excitation and inhibition | 2013-2015 | $590,143 |
National Multiple Sclerosis Society (USA) |Donnelly, D, Greer J | Treatment of Multiple Sclerosis with parasite Immunomodulatory molecules | 2014 | $40,000 |
Cancer Australia | Southey, M, Goldstein, D, Park, D, Lane, A, Wings, I, Simpson, P, Lakshmi S | High Risk Genes for Lobular Breast Cancer | 2013-2015 | $300,000 |
NHMRC Project Grant |Hinke, H, Martin, N, Scott, J, Gillespie, N, Hermes, D | Clinical and neurobiological predictors of onset of major mental disorders (mania, psychosis, severe depression), and associated functional impairment, in adolescent and young adult males: a prospective longitudinal study | 2014-2018 | $1,281,586 |
King Abdullah International Medical Research Centre (KAIMRC) |Al-Jishi, S, Zoweid, H, Balay, W, Paterson, D | Surveillance of antibiotic resistant Gram negative bacilli in Saudi Arabia and the Gulf States | 2013-2013 | $55,000 |
NHMRC Project Grant |Staley, K, Roberts, T | The mechanism of cell death in response to cytoplasmin DNA, and its role in tumour suppression | 2011-2013 | $500,022 |

Books 2013 UQCCR researchers are indicated in bold.


experienced by mothers leads to a decline in marital quality: a 21-year longitudinal study. Social Psychiatry and Psychiatric Epidemiology
biopsies highlights changes in expression of inflammatory genes in conjunction with tissue remodelling genes. PLoS One
decisions: evaluating risks, lay beliefs, and informed decisions. The Journal of Health Psychology
Irish Journal of Medical Science
Chenery, H.J. Liddle, J. Scott, J. G.

**Appendix 3.0 AWARDS 2013**

<table>
<thead>
<tr>
<th>Name</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Paul Colditz</td>
<td>National Life Membership – Sids and Kidz Association</td>
</tr>
<tr>
<td>Professor David Paterson</td>
<td>Blaircroft Orator 2013 (Australian Medical Association)</td>
</tr>
<tr>
<td>Professor Peter Simon</td>
<td>Appointed a Member of the Order of Australia (AM) in the 2013 Australia Day Honours</td>
</tr>
<tr>
<td>Associate Professor Carolen Farah</td>
<td>Fellow of the Oral Medicine Academy of Australia</td>
</tr>
<tr>
<td>Associate Professor Karen Krievstein</td>
<td>Travel Award, International Society for Stem Cell Research</td>
</tr>
<tr>
<td>Dr Jason Bourman</td>
<td>Dow's Award for Research Higher Degree Excellence</td>
</tr>
<tr>
<td>Dr Adrian Carter</td>
<td>Shimada Young Investigator Award, UQCCR Shrimadaw Awards Night</td>
</tr>
<tr>
<td>Dr Nadeenah Dissanayake</td>
<td>Faculty 1000 Associate Faculty Member Travel Award</td>
</tr>
<tr>
<td>Dr Yvonne Ebby</td>
<td>Most Outstanding Presentation by an Early Career Researcher, Fetal and Neonatal Physiology Workshops</td>
</tr>
<tr>
<td>Dr Shree Heath</td>
<td>Dow's Award for Research Higher Degree Excellence</td>
</tr>
<tr>
<td>Dr Brad Parridge</td>
<td>Young Tall Poppy Science Award, Australian Institute of Policy and Science</td>
</tr>
<tr>
<td>Dr John Patel</td>
<td>Education Award, National Stem Cell Foundation</td>
</tr>
<tr>
<td>Dr Margo Pitchard</td>
<td>Wellington Senior Lecturer, Queens University, Belfast, Northern Ireland</td>
</tr>
<tr>
<td>Dr Edith Eoy</td>
<td>Education Award, National Stem Cell Foundation</td>
</tr>
<tr>
<td>Dr Carlos Salomon</td>
<td>Travel Award, Japanese Society for Investigative Dermatology</td>
</tr>
<tr>
<td></td>
<td>Excellence in doctoral thesis award for best PhD thesis, Pontificia Universidad Catolica de Chile</td>
</tr>
<tr>
<td></td>
<td>Best Science Oral presentation at the 22nd annual RWHB Healthcare Symposium</td>
</tr>
</tbody>
</table>

**Student Awards**

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lisa Blyon</td>
<td>Global Controversies in Skin Cancer, best clinical poster award</td>
</tr>
<tr>
<td>Jamie Kutsuzov</td>
<td>Lome Cancer Travel Bursary</td>
</tr>
<tr>
<td>Dr Synthia Leasure</td>
<td>MSD-ANZBMS Clinical Research Excellence Award</td>
</tr>
<tr>
<td>Philip Morsey</td>
<td>Royal Australian &amp; New Zealand College of Psychiatrists, Faculty of Psychiatry of Old Age, Basic Training Prize</td>
</tr>
<tr>
<td>Alison Reavings</td>
<td>Abstract mint award, Society for the Neurobiology of Language</td>
</tr>
<tr>
<td>Tracy Robyoud</td>
<td>Allied Health Research Award, RWHB Health Care Symposium</td>
</tr>
<tr>
<td>Hosam Zowawi</td>
<td>(2 fellowship recipient (in partnership with Harvard and NCI)</td>
</tr>
</tbody>
</table>
### Appendix 4.0

#### CONFERENCE PRESENTATIONS

<table>
<thead>
<tr>
<th>Invited Speakers</th>
<th>Title</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Adrian Carter</td>
<td>Irresistible impulses? A legal case of drug-induced compulsive sexual behaviours. Judging responsibility.</td>
<td>在法庭、在实验室，和在散居。Melbourne University, November, Sydney, Australia.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td></td>
<td>Drug-induced Compulsive behaviour in Parkinson’s. Clinical and legal implications. Neuroethics Dinner under 2013 Neuroscience, ethics and public policy in Australia, University of Queensland, October, Brisbane, Australia.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Challenges for the use of extended-release nalbuphine in opioid-dependent offenders. 'Treating the criminal offender brain can we? Should we?' Robin Institute, September, Minneapolis, USA.</td>
<td></td>
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<tr>
<td></td>
<td>Addiction Neuroethics: The promises and perils of neuroscience research of addiction, Victorian Substance Use Research Forum, August, Melbourne, Australia.</td>
<td></td>
</tr>
<tr>
<td>Professor Helen Chenery</td>
<td>Client entered Data Collection System for Parkinson’s disease, Deep Brain Stimulation Symposium, November, Brisbane, Australia.</td>
<td></td>
</tr>
<tr>
<td>Professor Paul Colditz</td>
<td>Workshop: &quot;MRI of the newborn brain&quot;, Brain Meeting, December, Utrecht, The Netherlands.</td>
<td></td>
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<tr>
<td></td>
<td>Keynote Speaker: &quot;The importance of the perinatal period to health and disease&quot;, Mater neonatal research symposium, November, Brisbane, Australia.</td>
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</tr>
<tr>
<td>Associate Professor Terry Coyne</td>
<td>Participatory ethical Neuralegislature: A Real Target?, The 10th Quadrennial Meeting of the World Society for Stereotactic and Functional Neurosurgery, May, Tokyo, Japan.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Invited Seminar: The future of tobacco control in Australia. NAB, low tech or no tech? National Addiction Centre, Kings College London, April, London, UK.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Invited Seminar: The future of tobacco control in Australia. In tech, low tech or no tech? London School of Hygiene and Tropical Medicine, May, London, UK.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Invited lecture: The future of tobacco control: high tech, low tech and no tech sceneries. National Drug Research Institute, Curtin University, July, Perth, Australia.</td>
<td></td>
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<tr>
<td></td>
<td>Invited seminar: Bursting the cognitive enhancement bubble. School of Philosophy, University of Tasmania, August, Hobart, Australia.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keynote Lecture: The ethical and legal implications of compulsive behaviour and Parkinson’s Disease treated with dopamine agonists. School of Law, University of Tasmania, August, Hobart, Australia.</td>
<td></td>
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<tr>
<td></td>
<td>Keynote presentation: Young Australian cigarette smokers and illicit drug users. Bict Drug Trends Conference, October, Melbourne, Australia.</td>
<td></td>
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<tr>
<td></td>
<td>Invited comment: Summary of Dialogue on Gambling Research, Monash University, October, Melbourne, Australia.</td>
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<tr>
<td></td>
<td>Keynote Presentations: The adverse health and psychological effects of cannabis use: what have we learned in the past 20 years? and Medical cannabis conundrum. At The Maxx: Cannabis and Health, International Drug Policy Symposium, November, Hobart, Australia.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Keynote presentations: An overview of our research on addiction neuroethics; and Young Australian cigarette smokers and illicit drug users. Bict Drug Trends Conference, October, Melbourne, Australia.</td>
<td></td>
</tr>
<tr>
<td>Invited Speakers</td>
<td>Title</td>
<td>Details</td>
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<tr>
<td>Dr Avie Lie</td>
<td>Alternative splicing of glutamate transporters, Anderson Stuart seminar, University of Sydney, September, Sydney, Australia.</td>
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<tr>
<td>Dr Jacqui Liddle</td>
<td>Monitoring the impact of Parkinson’s disease on community life using everyday technology. Deep Brain Stimulation Symposium, November, Brisbane, Australia.</td>
<td></td>
</tr>
<tr>
<td>Dr Philip Mole</td>
<td>Impairment &amp; Caregiver Burden after Deep Brain Stimulation for Parkinson’s disease, Deep Brain Stimulation Symposium, November, Brisbane, Australia.</td>
<td></td>
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<tr>
<td>Dr Matthew Nield</td>
<td>Interventions, before and during pregnancy, to prevent complications from an overweight pregnancy. Needle Nutrition Workshop, 56th November, Bali, Indonesia.</td>
<td></td>
</tr>
<tr>
<td>Dr Amy Rodriguez</td>
<td>Promoting Neurplasticity in Alzheimers Rehabilitation: Current Trends and Future Possibilities. Danish Speech Pathology Association, May, Copenhagen, Denmark.</td>
<td></td>
</tr>
<tr>
<td>Dr Ben Rogers</td>
<td>The role of migrants and tourism in globalization of antimicrobial resistance, European Society of Clinical Microbiology and Infectious Diseases annual congress(ECCMID), April, Berlin, Germany.</td>
<td></td>
</tr>
<tr>
<td>Dr Hari Subramanian</td>
<td>Neurophysiology – animal models in DBS. Deep Brain Stimulation Symposium, November, Brisbane, Australia.</td>
<td></td>
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<tr>
<td>Dr Hanna Sidjabat</td>
<td>Overview of genotypic methods for detection of resistance mechanisms. Superbugs workshops, August, Brisbane, Australia.</td>
<td></td>
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<tr>
<td></td>
<td>Workshop invitation: “Stem cells: from biology to pathology”, International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Workshop invitation: “Oxygen in placental development and pathologies”, International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Workshop invitation: “Role of ‘omics’ in understanding placental development and pathologies”. International Federation of Placental Associations (IFPA) September, Whistler, CA, USA.</td>
<td></td>
</tr>
<tr>
<td>Dr Yarina Soldatova</td>
<td>Overview of genotypic methods for detection of resistance mechanisms. Superbugs workshops, August, Brisbane, Australia.</td>
<td></td>
</tr>
<tr>
<td>Dr Hari Subramanian</td>
<td>Neurophysiology – animal models in DBS. Deep Brain Stimulation Symposium, November, Brisbane, Australia.</td>
<td></td>
</tr>
<tr>
<td>Professor Suri Lakhani</td>
<td>Invited speaker: Genomics impact on Anatomical pathology Queenston Genomics Medicine Meeting, August, Queenston, New Zealand.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Invited speaker: Diagnostick challenges in Breast Pathology, perspectives from the new WHO Classification. 58th Annual meeting of Japanese Society of Pathology, November, Tokyo, Japan.</td>
<td></td>
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<tr>
<td></td>
<td>Awarded a visit Professorship by the Royal College of Pathologists to lecture in Malaysia, Singapore and Hong Kong, November.</td>
<td></td>
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</tbody>
</table>
Appendix 5.0

SEMINARS HELD AT UQCCR IN 2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14/02/2013</td>
<td>Dr Erin Cowley &amp; Dr Dan Angus</td>
<td>Examining Effective Conversation Strategies in Dementia Care: The Application of a Computer-Based Conversation Visualisation Tool in Clinical Research</td>
</tr>
<tr>
<td>21/02/2013</td>
<td>Dr Susan Patterson</td>
<td>Pragmatic Trials: The Real Guide for Clinical Decision Making? A Critical Perspective</td>
</tr>
<tr>
<td>28/02/2013</td>
<td>Dr Carlos Salomon</td>
<td>Exosomes: Surrogate Biomarkers of Placental Function</td>
</tr>
<tr>
<td>07/03/2013</td>
<td>Associate Professor Jansen/Pasterkamp</td>
<td>Molecular mechanisms of neural circuit development and disease</td>
</tr>
<tr>
<td>14/03/2013</td>
<td>Dr Rob Henderson</td>
<td>The Enigma of MND</td>
</tr>
<tr>
<td>21/03/2012</td>
<td>Dr Judy Luglies</td>
<td>Unsealing Mechanisms of Action of Deep Brain Stimulation in Obsessive Compulsive Disorder: An Imaging Study</td>
</tr>
<tr>
<td>18/04/2013</td>
<td>Professor Mark Walker</td>
<td>Lifelong Genomics to Understand Group A Streptococcal Evolution and Epidemiology</td>
</tr>
<tr>
<td>22/04/2013</td>
<td>Dr Ron Gray</td>
<td>Establishing effects of moderate alcohol consumption on the fetus: can genetic variation help?</td>
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<tr>
<td>09/05/2013</td>
<td>Dr Nic Waddell</td>
<td>Whole Genome Sequencing of Cancer Reveals Mutational Signatures and Suggests New Therapeutic Options</td>
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<tr>
<td>16/05/2013</td>
<td>Dr Jatin Patel</td>
<td>The Placenta: A Reservoir of Fetal Stem Cells</td>
</tr>
<tr>
<td>22/05/2013</td>
<td>Dr Hanna Siddiqui</td>
<td>Molecular Epidemiology and Genomics in Multiphase Resistant Gram-Negative Bacteria and Recent Characterisation By Proteomics</td>
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<tr>
<td>06/06/2013</td>
<td>Professor Scott Bell</td>
<td>Pseudomonas Aeruginosa: Where Do Patients Get It From?</td>
</tr>
<tr>
<td>13/06/2013</td>
<td>Mr John Pearson</td>
<td>GCMG: Calling Varnets in Cancer, Using Next-Generation Sequencing</td>
</tr>
<tr>
<td>25/06/2013</td>
<td>Dr Jim Palevans</td>
<td>Epilepsy – Clinical Overview and Research Possibilities</td>
</tr>
<tr>
<td>27/06/2013</td>
<td>Dr James Scott</td>
<td>School Bullying: The Most Important Risk Factor for Mental/Physical?</td>
</tr>
<tr>
<td>04/07/2013</td>
<td>Associate Professor Karanip Khosrotehrani</td>
<td>The Tumour Environment in Skin Cancer</td>
</tr>
<tr>
<td>11/07/2013</td>
<td>Dr Kenny Richard</td>
<td>Placental Thyroid Hormone Transport</td>
</tr>
<tr>
<td>19/07/2013</td>
<td>Dr Michael Farrell</td>
<td>Trends and Issues in Substance Use and Mental Health Problems in Young People</td>
</tr>
<tr>
<td>25/07/2013</td>
<td>Dr Debra Stavny</td>
<td>Growth hormone, insulin and beyond – Maintaining tety acid balance regardless of poor dietary habits</td>
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<tr>
<td>08/08/2013</td>
<td>Dr Ian Heng</td>
<td>Identifying Biomarkers to Predict Premature Birth</td>
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<tr>
<td>15/08/2013</td>
<td>Professor Greg Mortleth</td>
<td>Remodeling of Calcium Signaling in Breast Cancer Cells</td>
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<tr>
<td>22/08/2013</td>
<td>Professor David McIntyre</td>
<td>GCMG and Goldbokie – too much, too little or “just right”</td>
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<tr>
<td>29/08/2013</td>
<td>Dr Rik Thompson</td>
<td>Epithelial Mammalian Plasticy (EMPL) in Breast Cancer Progression – A Moving Target</td>
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<tr>
<td>04/09/2013</td>
<td>Professor Graham Colditz</td>
<td>Pan-Perception Diet and Cancer Risk; Studies at Washington University in St. Louis, in the Context of Understanding/Dealing/Cancer and Cancer</td>
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<tr>
<td>12/09/2013</td>
<td>Professor Graham Gabrielsky, Dr Kate McKhlon</td>
<td>Human MR - High and Ultra High Field at GAN</td>
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<tr>
<td>12/09/2013</td>
<td>Associate Professor Emil Wolvastang</td>
<td>Taking TALENs To Tenancy 21:</td>
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<tr>
<td>3/10/2013</td>
<td>Professor Ian Weiright</td>
<td>Microcirculation Matters</td>
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<tr>
<td>10/10/2013</td>
<td>Dr Cynthia funnel</td>
<td>Relating Brain Ageing: Balancing Individual Responsibilities and Collective Benefits of Healthy Ageing</td>
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<tr>
<td>17/10/2013</td>
<td>Dr Carla Mork</td>
<td>How has neurolabology affected public perceptions of addiction? Review of a mixed methods study</td>
</tr>
<tr>
<td>24/10/2013</td>
<td>Dr Elizabeth Williams</td>
<td>Tumour cell plasticity and cancer progression</td>
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<tr>
<td>31/10/2013</td>
<td>Associate Professor Ross Cunningham</td>
<td>Brain processes underlying the planning and preparation for action</td>
</tr>
<tr>
<td>07/11/2013</td>
<td>Professor Ian Brewton &amp; Dr Gary Cowen</td>
<td>Pre-clinical, Materials and Molecular Imaging Facility Seminar</td>
</tr>
<tr>
<td>14/11/2013</td>
<td>Dr Adrian Carter</td>
<td>Drug-induced Compulsive Behaviour in Parkinson's Disease: Clinical and Legal Implications</td>
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</table>
### Enrolments in 2013

**UQCCR supervisors are shown in bold.**

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Degree</th>
<th>Supervisors</th>
<th>Project Title</th>
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<tr>
<td><strong>Enrolments in 2013</strong></td>
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<tr>
<td><strong>Student Name</strong></td>
<td><strong>Degree</strong></td>
<td><strong>Supervisors</strong></td>
<td><strong>Project Title</strong></td>
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<tr>
<td>Suchismita Maguire, Andrea</td>
<td>MPhil</td>
<td>Dr P Ford, Dr G Gartner</td>
<td>Embedding oral screening into general health in Indigenous health care</td>
</tr>
<tr>
<td>Devine, Matthew</td>
<td>MPhil</td>
<td>Dr H Henderson, Professor P Colditz</td>
<td>Pathogenesis of Salmonella-Banke syndrome and chronic inflammatory polyneuropathy</td>
</tr>
<tr>
<td>Thomas, Nathaniel</td>
<td>MPhil</td>
<td>Dr J Scott, Dr P Connor</td>
<td>Beyond the classroom and into the cyber world, next generation research into adolescent bullying</td>
</tr>
<tr>
<td>Awwal, Abdul</td>
<td>PhD</td>
<td>Professor P Coffita, Dr B Booshah</td>
<td>Classification and localisation of neutral EEG abnormalities using time frequency image processing based neural network and support vector machines</td>
</tr>
<tr>
<td>Kyne, David</td>
<td>PhD</td>
<td>Professor P Hodgins, Dr M Batie</td>
<td>Biological factors predice of low back pain outcome</td>
</tr>
<tr>
<td>Devine, Matthew</td>
<td>MPhil</td>
<td>Dr H Henderson, Professor P Colditz</td>
<td>Pathogenesis of Salmonella-Banke syndrome and chronic inflammatory polyneuropathy</td>
</tr>
<tr>
<td>Green, Benjamin</td>
<td>PhD</td>
<td>Professor S Lukhchi, Dr P Simpson</td>
<td>Prospective study of patients with broad tumours and discovery of potential biomarkers and therapeutic options</td>
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<tr>
<td>Ng, Keng Lim</td>
<td>MPhil</td>
<td>Dr S Wood, Dr G Gobe</td>
<td>Better molecular signatures for renal oncocytomas versus chromophobe renal cell carcinoma</td>
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<tr>
<td>Piggozato, Alex</td>
<td>PhD</td>
<td>Dr B Rogers, Dr Y Gal, Dr N Dawson</td>
<td>Automatic construction of normal and abnormal tissue models from mined datasets for delineation of abnormalities</td>
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<tr>
<td>Etukud, Hope Alex</td>
<td>PhD</td>
<td>Dr H Subramanian, Professor P Ali, Dr S Colins</td>
<td>Magnetic resonance neuroimaging of the brain of some domestic animal species</td>
</tr>
<tr>
<td>Asken</td>
<td>PhD</td>
<td>Associate Professor E Duncan, Associate Professor B Meier, Professor M Brown</td>
<td>Exome sequencing for gene discovery and genetic testing in Mandelbrot disorders</td>
</tr>
<tr>
<td>Wall, Kyle Jane</td>
<td>PhD</td>
<td>Associate Professor D Copland, Dr Amy Rodriguez</td>
<td>Prognostic factors of MRI in recognition of cognition and language post stroke</td>
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<tr>
<td>McInerney, Leo</td>
<td>PhD</td>
<td>Professor M Mitchell, Professor G Gobe</td>
<td>Characterisation of inflammatory pathways associated with preterm birth</td>
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<tr>
<td>Jensen, Charmagne</td>
<td>PhD</td>
<td>Associate Professor J Locic, Professor W Hall, Dr B Partridge</td>
<td>Non medical use of prescription stimulants by Australian University students: Attitudes, prevalence of use, and motivation</td>
</tr>
<tr>
<td>Issacs, Megan</td>
<td>PhD</td>
<td>Associate Professor D Copland, Dr Amy Rodriguez</td>
<td>Control of language production and its neural substrates</td>
</tr>
<tr>
<td>Barney, Rebecca</td>
<td>PhD</td>
<td>Dr W Arnett, Dr K McManus, Associate Professor D Copland</td>
<td>Normative assessment and the Autism diagnostic observation schedule (ADOS)</td>
</tr>
<tr>
<td>Lai, Melissa</td>
<td>MPhil</td>
<td>Professor P Coffita</td>
<td>Environmental manipulation of the very preterm infant: Can denies away EEG detect developmental differences at term equivalent age</td>
</tr>
<tr>
<td>Bell, Christopher</td>
<td>MPhil</td>
<td>Associate Professor S Rose, Dr Y Gal</td>
<td>Molecular imaging new technologies for patient care</td>
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<td>Giderne, Cara</td>
<td>MPhil</td>
<td>Associate Professor A Coalliard, Professor L Callaway, Associate Professor S Rose</td>
<td>Can MRI at 3 and 5 years after first demyelinating event detect reduction in brain volume in patients who progress to clinically defined MS compared to those who do not</td>
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<tr>
<td>Reid, Lee Blumber</td>
<td>PhD</td>
<td>Associate Professor S Rose, Dr R Boyd</td>
<td>Measuring neuropathy in children with acquired brain injury using diffusion and functional MRI</td>
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<td>Byrom, Lisa</td>
<td>MPhil</td>
<td>Associate Professor K Khosrotabir, Professor A Green</td>
<td>Influence of pregnancy on prognosis of melanoma</td>
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<tr>
<td>Huang, John Ting</td>
<td>PhD</td>
<td>Dr A Angen, Associate Professor D Copland</td>
<td>Effects of repetitive transcranial magnetic stimulation exercise therapy on voice and speech in patients with Parkinson's disease</td>
</tr>
<tr>
<td>John, Nazah</td>
<td>MPhil</td>
<td>Associate Professor C Farah, Dr A Dalley</td>
<td>Distinction of mHFnF expression in human papillomavirus-infected and non-infected oral premalignant lesions and squamous cell carcinoma</td>
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<td>Webster, John</td>
<td>MPhil</td>
<td>Associate Professor C Farah, Dr M Milias</td>
<td>Opportunistic oral cancer screening in Australia: Investigating knowledge, attitudes and behaviour of general medical practitioners and medical students</td>
</tr>
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<td>Wu, Jennifer</td>
<td>MPhil</td>
<td>Associate Professor C Farah, Dr A Dalley</td>
<td>Varying microRNA expression in the transition from dysplasia to oral squamous cell carcinoma and its predictive and prognostic value</td>
</tr>
<tr>
<td>Forbes, Elizabeth</td>
<td>MPhil</td>
<td>Dr B Lingwood</td>
<td>Changes in cardiac structure and biochemistry during transition to extra utero life in preterm and term infants</td>
</tr>
</tbody>
</table>

### Ongoing Students

**UQCCR supervisors are shown in bold.**

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Degree</th>
<th>Supervisors</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ademola, Doreen</td>
<td>PhD</td>
<td>Professor P Coffita, Dr T Bjorkman</td>
<td>Neoproliferation and Neurosensory Ontoging in the Developing Brain</td>
</tr>
<tr>
<td>Blum, Stefan</td>
<td>PhD</td>
<td>Associate Professor P McCombe, Dr J Greer</td>
<td>Pathogenesis of Sudanese-Banke syndrome and chronic inflammatory polyneuropathy</td>
</tr>
<tr>
<td>Dong, Shinya</td>
<td>PhD</td>
<td>Professor P Coffita, Professor B Booshath, Dr B Lingwood, Dr G Assen</td>
<td>Heart rate variability for assessment of autonomic nervous system function in neonates</td>
</tr>
<tr>
<td>Fatichi, Fariba</td>
<td>PhD</td>
<td>Associate Professor P Hodges, Associate Professor H Karem</td>
<td>Structure and function of the trunk muscles in low back pain</td>
</tr>
<tr>
<td>Franquist, Keran</td>
<td>PhD</td>
<td>Dr A Angen, Associate Professor D Copland</td>
<td>The role of perceptual symbols in the representation of semantic concepts in dementia</td>
</tr>
<tr>
<td>France, Glenn</td>
<td>PhD</td>
<td>Associate Professor C Farah, Dr G Beadle</td>
<td>Protein expression and molecular Profesing using tissue microarrays to predict lymph node status in breast cancer</td>
</tr>
<tr>
<td>Giles, Jan</td>
<td>PhD</td>
<td>Professor P Hodges, Dr J Hides</td>
<td>The activation pattern of trunk and pelvic muscles during loading through the foot in dancers and non-dancers with and without low back pain</td>
</tr>
<tr>
<td>Harper, Hill, Keely</td>
<td>PhD</td>
<td>Associate Professor D Copland, Dr W Amott</td>
<td>Does language processing in individuals with ASD vary as a function of modality under conditions of increased stress?</td>
</tr>
<tr>
<td>Hersley, Gayle</td>
<td>PhD</td>
<td>Professor B Dodds, Dr Alkon Holm</td>
<td>Language learning outcomes in early sequential bilinguals</td>
</tr>
<tr>
<td>Higgin, Crystal</td>
<td>PhD</td>
<td>Dr P Dodd, Dr T Samberg, Associate Professor G Byrne</td>
<td>The role of vascular glutamate and GABA Transporters in Alzheimer’s disease</td>
</tr>
<tr>
<td>Issac, Mariprom</td>
<td>PhD</td>
<td>Associate Professor C Farah, Dr A Dalley</td>
<td>Cancerous &amp; precancerous lesions of oral cavity and comparison of their genetic Profile in young and old patients: MMR genes</td>
</tr>
<tr>
<td>Karmelst, William</td>
<td>PhD</td>
<td>Professor D Paterson, Dr H Siddiqui</td>
<td>Carbapenem resistance in commonly encountered Gram negative bacilli</td>
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<tr>
<td>Kim, Miss Young</td>
<td>PhD</td>
<td>Dr B Lingwood, Dr A Boyce, Dr K Gleeson</td>
<td>Myoccardial development in the preterm piglet</td>
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<td>King, Fiona Yin</td>
<td>PhD</td>
<td>Dr A Clements, Professor P Paterson, Professor M White, Professor M Cory</td>
<td>Novel approaches to the surveillance of healthcare acquired infections</td>
</tr>
<tr>
<td>Lau, Finn</td>
<td>PhD</td>
<td>Professor J Muritz, Dr G Gartner, Dr C Ok, Dr S Gatter</td>
<td>Occurence and fate of illicit drugs in Australian sewage treatment work</td>
</tr>
<tr>
<td>Legend, Julian</td>
<td>PhD</td>
<td>Associate Professor K Khosrotabir, Professor N Fisk, Dr A Brooks</td>
<td>Mesanchnical Epidermal interactions in skin wound regeneration</td>
</tr>
<tr>
<td>Lovece, Lucie</td>
<td>PhD</td>
<td>Associate Professor K Khosrotabir, Dr G Hill, Dr H McDonald</td>
<td>Auto-immuny and allergic chimerism acquired during pregnancy</td>
</tr>
<tr>
<td>McCarthy, Kate</td>
<td>PhD</td>
<td>Professor P Paterson</td>
<td>Pseudomonas aeruginosa bloodstream infections: Clinical and molecular epidemiology, antibiotic resistance mechanisms, treatment and outcome</td>
</tr>
<tr>
<td>Miller, Stephanie</td>
<td>PhD</td>
<td>Dr T Bjorkman, Dr P Nokes</td>
<td>Examining the maturation of the GABA system in the neuronal brain and its role in hypoxia-ischemic brain injury</td>
</tr>
<tr>
<td>Oslande, Nancy</td>
<td>PhD</td>
<td>Dr J Greer, Professor M Pender</td>
<td>The role of PlP in multiple sclerosis</td>
</tr>
<tr>
<td>Murphy, Jennifer</td>
<td>PhD</td>
<td>Associate Professor G Byrne, Associate Professor P Frier</td>
<td>Treatment-resistant depression</td>
</tr>
<tr>
<td>Neyler, Samuel</td>
<td>PhD</td>
<td>Professor M Lasim, Associate Professor E Wollansing</td>
<td>Atelasia telangectasia and induced pluripotent stem cells</td>
</tr>
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<td>Ormstern, Ami</td>
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<td>Professor P Colditz, Dr M Mesiah, Professor B Booshath, Dr S Vahedkhan</td>
<td>EEG background abnormalities: Analysis and classifications</td>
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<td>Yates, Sarah</td>
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<td>Motor, sensory and visual brain networks in children with unilateral Cerebral Palsy</td>
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<td>Moore, Kelsey</td>
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<td>Dr S Fifel</td>
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<td>Xiao, Henry</td>
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<td>Associate Professor S Rose, Dr R Boyd</td>
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<td>Al-Thebyah, Nadia</td>
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<td>Dr B Lingwood, Professor P Colda, Associate Professor T Donnan</td>
<td>Determination of Vitamin D status and intake of adolescent school girls in the central region, Saudi Arabia</td>
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**Appendix 7.0**

**CLINICAL TRIALS 2013**

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<th>Clinical Trial</th>
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<td>Early intervention centred on infant massage performed by the mother in preterm infants: effects on neurodevelopment at the clinical, electrophysiological and neuromuscular level.</td>
<td>Professor Paul Colditz, Dr Simon Penningan, Associate Professor Stephen Ross, Dr Andrea Guzzetta, Dr M Giulia D Acunto, Naomi Agneta, Sonia Siem, Dr Koa Whittingham, Jannine Dosterbrink and Penny Love.</td>
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<td>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.</td>
<td>Professor Robert Frank Gardiner (Principal Investigator).</td>
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<td>A Double-Blind, Placebo-controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Requiring Demosumab for bone loss due to Androgen-Depression Therapy.</td>
<td>Dr Geoff Couplin (Sub-investigator), Dr John Yardley (Sub-investigator), Dr Margaret McPherson.</td>
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<td>A Prospective Study: Developing a non-invasive test for Prostate Cancer detection. Researchers have employed PCR, ELISA, MALDI-TOF and metabolomic spectroscopy to discriminate cancer from non-cancer.</td>
<td>Dr Alison Hadley Med Oncologist (Sub-investigator).</td>
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<td>Unraveling the plasticity of sensorimotor pathways of the basal nuclei in children with cerebral palsy.</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Anna MacDonald, Dr Anthony Anger.</td>
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<td>Determination of Vitamin D status and intake of adolescent school girls in the central region, Saudi Arabia</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Investigating the neural basis for language deficits in Parkinson's disease by utilizing EEG.</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Investigating the 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 (MRI).</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Unraveling the plasticity of sensorimotor pathways of the basal nuclei in children with cerebral palsy.</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<td>Identifying and overcoming barriers to the appropriate nutritional support of hip fracture patients</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Improving the quality of life of patients suffering from Diabetes in Parkinson's disease and psychological challenges.</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Investigating the learning and language processing in Parkinson's disease patients who have had deep brain stimulation (DBS) functional neurological treatment</td>
<td>Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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<tr>
<td>Emotional inhibition in Parkinson's disease. The projects aims to identify emotional inhibition in Parkinson's disease patients with and without effective changes using psychological paradigms coupled with EEG.</td>
<td>Dr Nadeeka Diasyapappa, Associate Professor David Copland, Dr Anthony Anger, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Diasyapappa, Professor Peter Silburn.</td>
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</table>
Cognitive behavioral therapy to treat anxiety and depression in Parkinson’s disease patients.

This project aims to design and implement cognitive behavioral therapy for Parkinson’s disease patients.

Mindfulness for Parkinson’s disease.

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 Nancy Pachana, Dr Nadzeya Dissanayaka, Dr Leander Mitchell, Associate Professor John O’Sullivan, Dr Rodney Marsh, Mr Peter Bell (research assistant).

Visiting Academics

Professor George Bou-Ghosh
Professor Barbara Dodd
Professor Jeffrey Lipman
Professor Eugene Lumbert
Professor Jesus Rodriguez-Barrio
Associate Professor Christine East
Associate Professor Stephen Rose
Dr Colin Adams
Dr David Alcorn
Dr Zohreh Amini
Barthoulo
Dr Erika Hadca
Dr Genevieve Birney
Dr Jerry Chan
Dr Mahsun Chosulli
Dr Emma Duncan
Dr Xinya Fan
Dr Shrenich Goto
Dr Yuki Sako
Dr Sampsa Vahtela
Dr Tamas Argenyi
Dr Thibault Nuitkia
Dr Alastair Holt
Dr Tai Ngoc Tran
Ms Mariyose Mah

Researchers

Professor Boasamk Rosewell
Professor Gerard Byrne
Professor Sandra Capra
Professor Suzanne Chambers
Professor Nicholas Fisk
Professor Frank Reimard Garron
Professor Wayne Hall
Professor Martin Leun
Professor Peter Sillburn
Professor Lisa Soares
Professor Philip Walker
Professor Andreas Zere
Professor Robert Henderson
Associate Professor Keith Ashman
Associate Professor David Cogland
Associate Professor Terry Coyle
Associate Professor Carlele Fash
Associate Professor Karan Prasad Khojenstern
Associate Professor Jayne Ludic
Associate Professor Marisa Menzer
Dr Myron Avant
Dr Ghaem Asadi
Dr Nigel Barrett
Dr Nigel Bennett
Dr Tracey Bjorkman
Dr Adrian Carver
Dr Hui-Wen Chan
Dr Melissa Conron
Dr Erin Conway
Dr Andrew Dobay
Dr Marius Dobik
Dr Nadzeya Dissanayaka
Dr Yuumei Elby
Dr Simon Forrigan

Centre Director

Professor Murray Mitchell

Theme Leaders

Professor Helen Chenery
Professor Paul Collie
Professor Robert Frank Gardner
Professor Scott Laidlaw
Professor Pamela Mccombie
Professor David Paling
Professor Gregory Rico

Appendix 8.0

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