

UNIVERSITY OF QUEENSLAND CENTRE FOR CLINICAL RESEARCH
2014 ANNUAL REPORT



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

RESEARCH EXCELLENCE

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MESSAGE FROM THE CENTRE DIRECTOR

“We have always pursued best practice and set the benchmarks for collaborative clinical research. The difference this year, however, has been the wider recognition of our excellent work, which has spurred us on to push the boundaries further.”

PROFESSOR MURRAY MITCHELL

The UQ Centre for Clinical Research (UQCCR) continues to represent the very best of Australian health and medical innovation, and I am proud to share with you this report on our many achievements throughout 2014.

As you read about the people and projects making a difference to what clinicians know and can do about human health at all ages, you'll notice a common theme emerging: research excellence.

We have always pursued best practice and set the benchmarks for collaborative clinical research. The difference this year, however, has been the wider recognition of our excellent work, which has spurred us on to push the boundaries further.

Our efforts have attracted support from new and existing collaboration partners in Australia and around the world.

This includes funding of more than \$6 million from the National Health and Medical Research Council. With a 23 percent success rate, the Centre has exceeded the national average for grant applications by nearly 10 percent.

More than \$600,000 from the Royal Brisbane and Women's Hospital Foundation has enabled various important research projects to advance.

Dr Cynthia Forlini received more than \$360,000 from the Australian Research Council for a Discovery Early Career Research Award.

We welcomed many distinguished guests during the year, such as the Queensland Chief Scientist, Dr Geoff Garrett; the former Minister for Health, Laurence Springborg; and the Assistant Director-General, Dr Christine Williams, from the Department of Science, Information Technology, Innovation and the Arts.

In July, members of New Zealand's Parliamentary Select Committee for Health visited UQCCR to discuss children's health and skin cancer with our own experts and the Queensland Cancer Council.

Our researchers were profiled by international and Australian media, including *TIME*'s NextGen Leaders of 2014 and the SBS channel's 'Life on Us' documentary.

We were proud to see the National Indigenous Drug and Alcohol Committee add Dr Janet Hammil's name to the Coralie Ober Alcohol Honour Roll, for her tireless research, advocacy, and support for individuals living with Foetal Alcohol Spectrum Disorder.

We congratulated two PhD candidates on winning major awards. Hosam Zowawi received the prestigious Rolex Award for Enterprise for his pioneering work on antibiotic resistant bacteria (page 12). Betoul Baz was highly successful in several UQ competitions and won Best Student Poster at the Australasian Society for Dermatology Research-Cutaneous Biology Conference.

All our students contribute to UQCCR's ongoing success, and we appreciate the fresh curiosity and creative thinking they bring to the Centre.

We also congratulated our valuable supporter, Shimadzu Australasia, on receiving an Excellence in Industry Engagement award from the Faculty of Medicine and Biomedical Sciences.

In 2014 we recognised the outstanding efforts of ten students and early career researchers. At the UQCCR Shimadzu Awards Seminar, Dr Barbara Lingwood, Dr Rebecca Pelekanos, Dr Jacki Liddle, Dr Carlos Salomon, Dr Susan Sullivan, Dr Renee Richards, Dr Jatin Patel, Itopa Ajayi, Matthew Roberts and Mihar Kobayashi all received awards.

Excellence can only be achieved when everyone shows deep commitment to common goals. I would like to acknowledge and thank the entire UQCCR staff – research, clinical, academic and professional – for their dedication to their own work and for the support they give each other.

This report is an inspiring collection of stories about the people and the passion that define research excellence at UQCCR.

It's a satisfying 'farewell salute' to my time as the Centre's Director. In 2015, I return to the lab as a Senior Research Leader, focusing on projects that support the 'Mothers, Babies and Lifelong Health' theme.

Professor David Paterson has accepted the role of Acting Director and will be overseeing the achievements you'll read about in next year's report. Professor Paterson leads a successful infection and immunity team here at UQCCR. The Centre will benefit enormously from his leadership.


Professor Murray Mitchell
Director

\$6m+

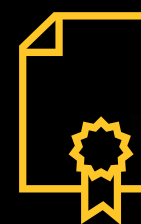
NHMRC FUNDING

23%

NHMRC GRANT SUCCESS RATE



GLOBAL MEDIA COVERAGE



HONORARY ACCOLADES



IMAGE Professor Murray Mitchell

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{PART 1}

HIGHLIGHTS FROM 2014



TOP LEFT Dr Cynthia Forlini **BOTTOM LEFT** PhD student, Mr Hosam Zowawi, receiving a Queensland Science and Innovation award
RIGHT PhD student, Ms Betoul Baz



LEFT Professor Paul Colditz **TOP RIGHT** UQCCR welcomes Dr Geoff Garrett, the Queensland Chief Scientist
BOTTOM RIGHT Associate Professor Terry Coyne (*left*) and Professor Peter Silburn (*far right*) performing DBS surgery



UQCCR SHIMADZU AWARDS SEMINAR

The UQ Centre for Clinical Research (UQCCR) Shimadzu Awards Seminar was held on Wednesday 26 November 2014. The event commenced with a seminar titled ‘Surfing the Human Brain’ presented by Professor Peter Silburn, Acting Director of the Asia-Pacific Centre for Neuromodulation at UQCCR.

Ten outstanding students and early career researchers at UQCCR were presented with various awards in recognition of their exceptional achievements. Awards were donated by Shimadzu Australasia and the National Centre for Health Innovation.

STUDENT SUCCESS

PhD student Ms Betoul Baz was the winner of the UQ School of Medicine Three Minute Thesis (3MT) competition and won the People’s Choice award for the Faculty of Medicine and Biomedical Sciences 3MT competition. Betoul also received a UQ Graduate School International Travel Award worth \$5000 and won best student poster at the Australasian Society for Dermatology Research-Cutaneous Biology Conference.

A commitment to protecting the world from the threat of antibiotic-resistant bacteria has led to a UQCCR PhD student, Mr Hosam Zowawi, receiving a Rolex Award for Enterprise (read more, page 12).

Hosam was also named a Queensland Science and Innovation Champion in 2014 for his extensive contribution to science and innovation within our community in Queensland.

He was honoured at an awards ceremony in Brisbane, hosted by the Queensland Chief Scientist, Dr Geoff Garrett, on Tuesday 25 November 2014.

FUNDING SUCCESS

In 2014, 23 percent of NHMRC funding applications were successful, including a project grant awarded to Professor Paul Colditz worth over \$1.6 million (see appendix 2). Postdoctoral Research Fellow Dr Cynthia Forlini received a Discovery Early Career Research Award from the Australian Research Council (read more, page 14).

BREAST TISSUE BANK

The breast cancer research team at UQCCR, led by Professor Sunil Lakhani, received a Diamond Care Grant for \$200,000 from the Walk To End Women’s Cancer (a joint initiative by the Royal Brisbane and Women’s Hospital Foundation and QIMR Berghofer). Funding will go towards a project to expand the Brisbane Breast Bank titled “a prospective study developing biomarkers of response and recurrence”.

MEDIA HIGHLIGHTS

In 2014 a number of researchers at UQCCR received national and international media coverage highlighting their research excellence.

Professor David Paterson featured in ‘Life on Us’, a documentary which aired on SBS and explored the trillions of life forms each of us carry on our bodies. From the same research group, PhD student Hosam Zowawi appeared in *TIME* magazine as part of *TIME*’s Next Generation Leaders series.

Professor Peter Silburn spoke to ABC Radio National about Deep Brain Stimulation (DBS) and how it can be used to treat Parkinson’s disease and some psychiatric conditions. Associate Professor James Scott featured in a Sydney Morning Herald article on teen depression.

VISITS TO UQCCR

On Monday 14 July 2014, UQCCR hosted members of the Health Select Committee of the Parliament of New Zealand. The Delegation met with a number of experts from UQCCR and Cancer Council Qld for a round table meeting to discuss issues in relation to improving children’s health and skin cancer.

In June UQCCR welcomed Dr Geoff Garrett, the Queensland Chief Scientist from the Department of Science, Information Technology, Innovation and the Arts (DSITIA). This followed a visit from Dr Christine Williams, Assistant Director-General from DSITIA in May 2014. Both visitors were particularly focused on UQCCR’s collaborative efforts and the impact in the health system and for patients.

The former Minister for health, Laurence Springborg, visited UQCCR in September 2014 to see first-hand the translational research conducted at the Centre.

NATIONAL INDIGENOUS DRUG & ALCOHOL AWARDS

Dr Janet Hammil was inducted into the Coralie Ober Alcohol Honour Roll by the National Indigenous Drug and Alcohol Committee in June 2014 for her commitment to research, advocacy and the support of individuals living with Fetal Alcohol Spectrum Disorder.

HOT PUBLICATIONS

UQCCR researchers had several prestigious publications during 2014 in journals such as *The Lancet* and *PLOS ONE*.

Professor David Paterson published ‘Framework for optimisation of the clinical use of colistin and polymyxin B: the Prato polymyxin consensus’ in *The Lancet Infectious Diseases*.

Dr Carlos Salomon published ‘A gestational profile of placental exosomes in maternal plasma and their effects on endothelial cell migration’ in *PLOS ONE*.

Dr Hari Subramanian published two peer-reviewed books as part of the Progress in Brain Research journal series.

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{PART 2}

AWARDS FROM 2014

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YOUNG 'SUPERBUGS' INNOVATOR RECEIVES PRESTIGIOUS ROLEX AWARD FOR ENTERPRISE

A commitment to protecting the world from the threat of antibiotic-resistant bacteria has led to a PhD student at the UQCCR receiving a Rolex Award for Enterprise.

Mr Hosam Zowawi was one of five Young Laureates from around the globe to receive the prestigious award.

Under the guidance of UQCCR's renowned international infectious diseases expert Professor David Paterson, Mr Zowawi created a diagnostic tool that could rapidly identify superbugs.

His fast diagnostic tool called 'Rapid Superbug' can detect resistant bacteria within three to four hours, rather than 48-72 hours like current diagnostic tests.

"Currently, doctors use a trial and error approach when it comes to identifying an antibiotic that works," Mr Zowawi said.

"Rapid Superbug will allow more patients to be treated quickly with the right antibiotics and will minimise opportunities for the deadly bugs to spread throughout the population."

As a clinical microbiologist, Mr Zowawi has hoped for faster methods to test for antibiotic sensitivity. The lengthy turnaround time for testing has been acknowledged by the World Health Organisation, who noted the need for the development of a rapid diagnostic tool in a report released in 2011, as part of a strategy to combat superbugs.

Mr Zowawi said receiving such a world-class award was a privilege and he acknowledged his colleagues who have been involved in his work to combat superbugs.

Mr Zowawi has also made headway in raising awareness of antibiotic resistance in the Middle Eastern Gulf States through a creative communication campaign.

"I hope this award will draw attention to the global and urgent action needed to prevent the emergence of superbugs."

HOSAM ZOWAWI

"It is important for people beyond the scientific community to know about our research and understand the correct use of antibiotics will help to prevent the emergence of antibiotic resistant superbugs."

"Together, we can prevent the world from heading towards a post-antibiotic era where common infections and minor injuries, which have been treatable for decades, can once again kill."

Saudi Ambassador to London, Prince Mohammed bin Nawaf, said Mr Zowawi's award underscored the international significance of his research.

"Hosam's pivotal work and exciting and inspiring progress in the fight against antibiotic-resistant bacteria is of importance to King Saud Bin Abdulaziz University for Health Science and The University of Queensland," Prince Mohammed said.

"This research is vital in a health area of unmet need across the world and the award reflects strongly on the talent nurtured at his alma mater in Saudi Arabia and the focus given to it in Queensland."

Professor David Paterson said the team aims to have the 'Rapid Superbug' test available for use within their UQCCR research lab in early 2015.

"We also intend to design additional rapid diagnostic tests, including a test which will be suitable to make fast diagnoses in a clinical setting," Professor Paterson said.

Rolex Laureate Award for Enterprise recipients are recognised for pioneering work in areas of science and health, applied technology, exploration and discovery, environment, and cultural heritage.

The bright young student underwent a stringent selection process to receive the award, with an international jury of independent experts; including prominent scientists, environmentalists and entrepreneurs; selecting him from a pool of more than 1,800 applicants from around the world.

Mr Zowawi received a Rolex chronometer, 50,000 Swiss francs (A\$59,000) to further his work and an official certificate at the gala ceremony.

TIME magazine also identified Mr Zowawi as one of the world's Next Generation Leaders. He has also been named a Queensland Science and Innovation Champion for his work around developing 'Rapid Superbug'.

UQCCR RESEARCHER Mr Hosam Zowawi
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FOLLOW @HZowawi on Twitter
INTERACTIVE Scan the QR code to watch a short video on Hosam Zowawi's work



3-4

HOUR DETECTION WITH
'RAPID SUPERBUG'

ENABLING FASTER TREATMENT, TO MORE PATIENTS

WITH THE RIGHT
ANTIBIOTICS





AUSTRALIANS 75 YEARS AND OVER

6.4%
{2012}

14.4%
{2060}

ENHANCING

THE LIVES OF OLDER AUSTRALIANS

Australians are living longer. By the year 2060, 14.4 percent of Australians will be 75 years and older, compared to 6.4 percent in 2012.

And it seems along with longevity in our age comes an increased responsibility to prevent the negative effects of ageing on physical and mental health.

Eat healthy foods, exercise, and do 'brain training' exercises to keep your mind fit; we have all heard the recommendations and they are all about prolonging life or preventing age-related disease and decline.

Are older people feeling the pressure to be healthy and active well into their later years?

This is one question Dr Cynthia Forlini, Postdoctoral Research Fellow at the UQCCR, will find an answer to in her upcoming project on ageing and the role of neurotechnology.

Dr Forlini received a Discovery Early Career Researcher Award from the Australian Research Council to undertake this research in 2015.

Her project will examine older individuals' perspectives on cognitive ageing as well as their roles and responsibilities in society. She will also look at current strategies used to maintain cognitive capacity during later life and gauge which approaches are preferred by ageing individuals.

With the focus on our ageing population bringing negative consequences – such as less participation in the work force and increased stress on our health and aged care sectors – Australian and international policies are prioritising brain health to increase economic productivity and reduce the costs of age-related cognitive decline.

“Governments are preparing for the demographic change by encouraging individuals as young as 50 to maintain their physical, cognitive and emotional wellbeing so that they remain productive for as long as possible.”

DR CYNTHIA FORLINI

The responsibility is placed on ageing individuals to maintain or adopt a certain lifestyle that will enable them to continue to contribute to the economy and society.

Preventing age-related cognitive decline

Certain neurotechnologies – technologies that are designed to improve and repair brain function, like brain games – are being promoted as part of a healthy lifestyle that will protect and maintain cognitive performance.

“The consumer market is rife with neurotechnologies ranging from dietary supplements to 'brain training' software that claim to avert age-related cognitive decline,” Dr Forlini said.

Dr Forlini will explore what certain neurotechnologies do for ageing individuals and whether or not they actually are valuable in the lifestyles of ageing individuals. She will also investigate whether or not society sees ageing people as a burden and how older individuals perceive cognitive ageing.

“This is critical if we are to effectively implement policies that favour economic productivity while respecting the diversity and autonomy of individuals within the population,” she said.

Dr Forlini and her team will be interviewing people aged over 50 to compare their motivations for using neurotechnologies to enhance cognitive ageing.

Focussing on what goes on for the ageing person, not the ageing population, Dr Forlini aims to gain a clear perspective about ageing that is more conscious of the impact of the ageing brain on individuals.

“This project is all about reassuring older Australians about the choices they make, to empower them to be active in pursuing what helps them”.

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{PART 3}

EXCELLENCE IN RESEARCH

LATEST BREATHING RESEARCH

TO HERALD NEW TREATMENTS FOR ASTHMA

“It means down the track, breathing treatments could be tailored to treat lung and airway disorders such as asthma, which will help reduce the burden to inspire and expire, particularly in children.”

DR HARI SUBRAMANIAN

It is easy to take the simple act of breathing for granted. That is, of course, until you find it difficult to breathe. For the one in 10 Australians living with asthma many suffer regularly from shortness of breath, wheezing or tightness in the chest.

Recent research findings on brain control of respiration could lead to improved treatments for asthma, as well as other lung and airway disorders like chronic obstructive pulmonary disease, chronic cough, sleep apnoea and breathing complications arising from spinal cord injury.

In response to the explosive growth in new information about breathing, UQCCR's Dr Hari Subramanian co-edited two peer-reviewed books which challenge the traditional perspectives of how breathing is organised in the brain.

Dr Subramanian says the books cover latest research in the area of respiration, including how breathing is produced, controlled and modulated by the brain.

“The neuronal circuits in the medulla indeed control the motor output regarding respiration. However these neuronal circuits are under strong influence of supramedullary structures such as midbrain periaqueductal gray (PAG), amygdala, hypothalamus, and, especially in humans, the medial orbitofrontal cortex,” he said.

These descending systems modulate breathing for both survival and emotional behaviour, which include acts such as vocalisation (and speech in humans), swallowing, coughing and emotional expression of fear, anxiety, laughter, joy and happiness.

“The more we probe into these circuits in the brain and understand how breathing is organised, the closer we are in developing new treatments not only for a range of breathing related disorders but also for allied homeostatic dysfunctions such as hypertension.”

“It means down the track, breathing treatments could be tailored to treat lung and airway disorders such as asthma, which will help reduce the burden to inspire and expire, particularly in children.”

“Scientists are also beginning to understand what goes on at a neurological level to cause obstructive sleep apnoea, respiratory disorders associated with emotional imbalance and in the case of spinal cord injury, the integration of breathing with other body systems such as micturition and pelvic floor control,” Dr Subramanian said.

This latest research could also lead to improved treatments for allied disorders such as dysphonia (inability to produce voice sounds using the vocal organs), and swallowing disorders (dyphagia).

The discovery that the midbrain PAG is involved in modulating breathing for survival and emotional acts such as eating (swallowing) and speaking (vocalisation) means cutting-edge neuromodulation therapy such as deep brain stimulation (DBS) could be used to treat these problematic respiratory disorders.

Dr Subramanian's books, published in 2014 by Progress in Brain Research, is spread over two volumes; volume one titled “The Central Nervous System Control of Respiration” and volume two titled “Breathing, Emotion and Evolution”.

Featuring 37 research papers and comprehensive reviews by internationally renowned experts, the two volumes explore the state-of-art on breathing and associated evolutionary, emotional and homeostatic control.

These two volumes will serve as an essential resource for neuroscientists, biologists, physiologists and researchers involved in systems neuroscience and motor control.

Dr Subramanian has been invited to complete a third book and will embark on this project in 2015. His latest book titled, “Homeostatic expression of emotion” will be published by Elsevier.

UQCCR RESEARCHER Dr Hari Subramanian
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AUSTRALIANS ARE LIVING WITH ASTHMA



FOSTERING COMMUNITY MOBILITY

For most Australians, driving is symbolic of independence. From the moment a teenager turns 17, they usually can't wait to gain their licence and the freedom that goes with it.

Most of us never plan for a time when we may need to surrender this independence.

Dr Jacki Liddle from the UQCCR is developing two new programs to help those with dementia or Parkinson's disease to continue to be independent and active in the community, after they hang up their keys.

Helping individuals' adjust to not driving

Following on from the UQDrive program Dr Liddle developed as part of her PhD, Occupational Therapist Dr Liddle has adapted the program to assist people with dementia in planning to stop driving and adjusting to the changes it brings.

UQDrive was developed and continues to be adapted by a multidisciplinary team of researchers at UQ including occupational therapists, psychologists, medical practitioners and gerontologists.

UQDrive is a six-week program where older people are supported in a group environment to overcome the various obstacles they face in the transition to surrendering their licence.

Older individuals' are given practical experience on how to catch public transport and access transport information as well as how to plan, access and take part in community activities that are meaningful to them.

This program has since been adapted to suit individuals with dementia and piloted among a small group of individuals.

Dr Liddle and her colleagues collaborating on the project are now seeking funds to trial the product further before it can be used among the community.

"The program is designed to help people to know when to stop driving and assist in transitioning to life without driving so they continue to feel empowered and remain an active part of the community," Dr Liddle said.

The research team are now looking to adapt the program to assist individuals in the community who are living with Parkinson's disease.

"Before we modify this program we are trying to establish how those with Parkinson's disease can be best supported to monitor their driving, stop driving at the right time and remain engaged with the community," she said.

"Their needs are likely to be different than for those living with dementia, so we need to determine issues that are specific to this group of people."

The UQDrive programs will encourage and support individuals' to access alternative methods of getting around their community before they completely cease driving.

"Catching public transport can feel difficult or threatening to older people or those with dementia or Parkinson's disease," she said.

"Along with the practical aspects of coming to terms with not being able to drive, the programs will also address emotional issues for individuals who stop driving."

"Many can become depressed or feel isolated because they no longer feel independent."

Using smartphone technology

In collaboration with CSIRO and the University of NSW, Dr Liddle and her research team are also using smartphone technology to monitor the mobility of people with dementia in the community.

"Using GPS tracking we will be looking to see how easy it is for people with dementia to get around and be active participants in the community," Dr Liddle said.

"The mobile app will give health professionals an accurate idea of what is going on at home, which will minimise the burden on people with dementia who may have trouble recalling this information during appointments," she said.

"This will allow health professionals to put appropriate supports in place to address any challenging areas and help those with dementia to remain mobile and engaged within the community."

This smartphone project is a result of seed funding received from the Dementia Collaborative Research Centre – Assessment and Better Care.

UQCCR RESEARCHER Dr Jacqueline Liddle

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THE PROGRAM IS DESIGNED TO HELP

PEOPLE TRANSITION TO LIFE WITHOUT DRIVING

SO THEY CONTINUE

TO FEEL EMPOWERED.





1500

AUSTRALIAN WOMEN

ARE DIAGNOSED WITH GYNAECOLOGICAL CANCER EACH YEAR

ANOTHER STEP CLOSER TO AN EARLY DIAGNOSTIC TEST FOR OVARIAN CANCER

Ovarian cancer success stories are too few and far between and about 1500 Australian women are diagnosed with this lethal gynaecological cancer each year.

Devastatingly, the mortality rate remains high with less than half (44.6 percent) of those with ovarian cancer surviving for five years after diagnosis. This is largely due to a lack of early diagnosis.

Dr Carlos Salomon, UQ Postdoctoral Research Fellow at UQCCR, has recently discovered exosomes contributing to the development of ovarian cancer. He aims to build on this finding to develop an early diagnostic test for ovarian cancer.

Current methods to detect ovarian cancer, through a blood test and ultrasound, are unreliable.

Dr Salomon said there is an urgent need for a reliable diagnostic marker to allow for early detection of ovarian cancer. This would improve survival rates dramatically, as when the cancer is diagnosed earlier on, women fare a much better chance of a full recovery.

He said exosomes – which are nano-vesicles produced by cells that contain genetic material and proteins – have recently been identified as a potential biomarker of ovarian cancer.

Dr Salomon and his colleagues have been examining the role of exosomes and their function in ovarian cancer progression.

As carriers of protein and genetic material, he has found exosomes are able to alter the genetic makeup of recipient cells.

“Over the past five years, our understanding of how cells communicate with each other in both healthy and disease states has undergone a paradigm shift,” he said.

“Devastatingly, the mortality rate remains high with less than half (44.6 percent) of those with ovarian cancer surviving for five years after diagnosis. This is largely due to a lack of early diagnosis.”

DR CARLOS SALOMON

“We now recognise the exosomes’ role in inter-cellular signalling. They function as messengers, carrying specific information that allow cells to communicate with one another.”

Preliminary results from research conducted by PhD student Miss Mihar Kobayashi, shows the tumour cells can release exosomes which can interact with other organs and prepare them for metastasis (spread of cancer).

“The capacity for normal cells to invade is very low, so when cancer cells communicate with normal cells, it seems it has the ability to transform the normal cells into cells with high invasion capacity – preparing for metastasis,” Dr Salomon said.

“If we can characterise the exosome profile of early stage cancer, we can identify individuals with ovarian cancer at an early stage while the disease is still treatable.”

Using specialist equipment in the Centre for Clinical Diagnostics (CCD) at UQCCR, Dr Salomon and his team have been able to isolate extracellular vesicles and measure the level of a particular type of exosome.

“This means we can detect early stage ovarian cancer by looking for a specific type of exosome that tests positive for tumour biomarkers,” he said.

Exosomes can be acquired from a range of biological fluids. This means in future it is possible a patient simply has to provide a blood, urine or saliva sample to receive a diagnosis for ovarian cancer.

Dr Salomon will be expanding on these findings in 2015 by studying exosomes in plasma from cancer patients.

“We also hope to extend our findings on exosomes to look at other diseases such as breast and pancreatic cancer, and obesity,” he said.

To continue his research, Dr Salomon has received funding from the Royal Brisbane and Women’s Hospital Foundation. He has also been successful in obtaining a UQ Early Career Researcher grant, a new leader in medical research grant from the Faculty of Medicine and Biomedical Sciences, and has been part of a successful UQ Academic Title grant.

Dr Salomon has recently been appointed Head of the Exosome Biology Laboratory within the CCD at UQCCR.

UQCCR RESEARCHER Dr Carlos Salomon
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PLACENTA

GIVES NEW LEASE OF LIFE TO SCORES OF PATIENTS

While some cultures bury the placenta after the birth of a child, use it in food, or create cosmetics or pharmaceuticals out of the life-giving organ, in the Western world the placenta is usually discarded after birth.

Scientists at UQCCR have recently discovered a new use for this marvellous organ whose duty is to protect and supply the foetus with nutrients during pregnancy.

Stem cells extracted from placental tissue can now be used to develop treatments for patients with diabetes or chronic cardiovascular disease, preventing devastating health outcomes like amputation.

There is an abundant supply of stem cells, called endothelial progenitors (EPCs) in the placenta, but until recently, it has not been possible to extract them in sufficient quantities for use in treatments.

Associate Professor Kiarash Khosrotehrani and Dr Jatin Patel have created an innovative new method to harvest large quantities of EPCs from the placenta.

The new method which was patented by the researchers in 2014 will allow them to develop medical treatments from the endothelial stem cells.

“One of the therapies we are exploring will benefit patients with cardiovascular diseases, which are responsible for most disease related deaths in Australia, resulting in years of life lost and a huge cost to our health system,” Associate Professor Khosrotehrani said.

“A single placenta has enough stem cells for 100 doses, which means after giving life to a baby, the organ may then go on to give a new lease of life to many patients.”

ASSOCIATE PROFESSOR KIARASH KHOSROTEHRANI

The research team recently discovered endothelial stem cells form new blood vessels when injected into the body.

“Laboratory experiments we have conducted have been promising and have shown injected endothelial stem cells spur blood vessel growth and improve blood flow by up to 30 to 40 percent in just two weeks,” Associate Professor Khosrotehrani said.

“This therapy would be a real breakthrough for patients with conditions such as type two diabetes or ischaemia, where blood flow is restricted resulting in intense pain, or wounds that won’t heal,” he said.

“It would also prove life-changing for many patients with severely restricted blood flow who are facing amputation of their affected limb.”

Dr Patel is now studying these cells as a ready-to-use product in models of leg artery closure, a condition in patients that usually does end with amputation.

“I will also test the method of delivery of EPCs and will explore the benefit of adding EPCs onto the surface of medical devices, such as stents,” Dr Patel said.

“This would be a major step for vascular stents in their development as a treatment for patients,” he said.

Researchers are also looking at the benefits of infusing stem cells intravenously.

Dr Patel was recently awarded a Postdoctoral Fellowship from the Heart Foundation to further his research in this area.

The ‘Future Leadership Fellowships’ program at the Heart Foundation offer funding to promising researchers who have been recognised as becoming a leader in the field of cardiovascular research.

UQCCR RESEARCHERS Associate Professor Kiarash Khosrotehrani, Dr Jatin Patel
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AUSTRALIAN MEN
ARE DIAGNOSED WITH PROSTATE CANCER EVERY YEAR

PAIN-FREE EARLY DETECTION OF PROSTATE CANCER

Nearly 20,000 men are diagnosed with prostate cancer in Australia every year. Although it is the most commonly diagnosed cancer among men living in Western countries, early detection methods remain protracted, invasive, costly and imprecise.

Researchers at the UQ Centre for Clinical Research are developing an inexpensive, non-invasive test for prostate cancer to indicate which men have significant prostate cancers and who are likely to benefit from treatment.

Leading researchers Professor RA ('Frank') Gardiner and Professor Martin Lavin are part of a team who discovered biomarkers for prostate cancer can be found in seminal fluid (semen).

The team is hopeful this discovery will lead to improved diagnosis and management of the disease.

Current diagnostic tests

"The current diagnostic process for prostate cancer is unpleasant, inaccurate and can cause significant side effects for patients," Professor Gardiner said.

The Prostate Specific Antigen (PSA) test is most commonly used as the method to indicate that a man is at-risk of having prostate cancer, although some men who have prostate cancer show normal PSA levels.

PSA is not cancer specific so many biopsies of at-risk patients are undertaken for non-cancerous causes or low-risk cancers unlikely to progress to cause patients problems. In addition to unwanted effects related to bleeding, which usually settle without treatment, biopsies carry a risk of infection which, uncommonly, can be life-threatening," he said.

"Recently, Magnetic Resonance Imaging (MRI) has been adapted to indicate those men most likely to have significant prostate cancers but multi-parametric MRI can miss detection of up to 10 percent of clinically-significant cancers. Although MRI is an advance in stratifying at-risk patients, this method is expensive and also remains less than perfect."

Pain-free test on the horizon

The team's discovery of prostate cancer biomarkers in seminal fluid could lead to a breakthrough in the detection and treatment of prostate cancer.

Seminal fluid samples were collected from consenting patients attending the Urology Outpatient Clinic at the Royal Brisbane and Women's Hospital before genetic material was extracted and analysed.

"Specific biomarkers from cancer cells were detected in semen tests and in urine voided immediately after ejaculation," Professor Lavin said.

"This discovery will hopefully pave the way for earlier and more accurate diagnosis of prostate cancer," he said.

Collection of samples of seminal fluid or urine immediately following ejaculation is non-invasive, making it a pain free alternative for detecting prostate cancer.

UQCCR RESEARCHERS Professor RA ('Frank') Gardiner, Professor Martin Lavin
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ALZHEIMER'S

PREVENTING THE PROGRESSION OF

ALZHEIMER'S DISEASE

HELM

ER'S

As we get older our cognitive abilities begin to wane. Our razor-sharp attention begins to deteriorate, our memory can let us down and we can feel less 'on-the-ball'.

For some people, their level of cognitive decline extends beyond what is considered a 'normal' part of ageing, which can lead to Alzheimer's disease (AD).

Living with severely impaired memory and thinking impacts Alzheimer's sufferers greatly, making day-to-day tasks difficult to cope with.

Associate Professor Marcus Meinzer from the UQCCR is trialling a unique, non-invasive brain stimulation technique to prevent the progression of Prodromal AD.

The technique called transcranial direct current stimulation (tDCS) passes very weak electrical currents directly onto the scalp to stimulate nerve cells in the brain and influence brain activity.

Using this technique, Associate Professor Meinzer and his team performed a single stimulation on patients with Prodromal AD.

Results showed an improved performance in individual's experiencing amnesic mild cognitive impairment (aMCI), which refers to the transitional stage between normal cognitive ageing and the early stages of Alzheimer's.

"Therapies such as this will help our older citizens to remain independent for longer and reduce the burden on our health system that comes from caring for those with significant age-related mental decline."

ASSOCIATE PROFESSOR MARCUS MEINZER

"To date, there are no pharmacological treatments that can prevent progression from aMCI to AD," Associate Professor Meinzer said.

"Participants' performance during tDCS was shown to have improved to the level of healthy elderly controls," he said.

Brain imaging revealed a "normalisation" of dysfunctional brain activity patterns, which means the pattern of brain activity during tDCS looked more similar to those of healthy older adults.

Preventing mental decline in older individuals'

These results are in line with a previous study also led by Associate Professor Meinzer, that used the same stimulation technique to demonstrate normal age-associated cognitive impairment in healthy older individuals can be reversed by tDCS.

"We have already used this technique in small groups of older volunteers and the results have been promising," Associate Professor Meinzer said.

"Results have shown older people who received the stimulation experienced significant benefits, including improvement in their working memory, their ability to name pictures, recall words, and learn and locate objects."

Associate Professor Meinzer said that in an ageing society, it would become increasingly important to help preserve the mental function of people as they aged.

"Therapies such as this will help our older citizens to remain independent for longer and reduce the burden on our health system that comes from

caring for those with significant age-related mental decline," he said.

These studies are evidence that tDCS can ameliorate cognitive impairment and improve the underlying brain processes in normal ageing and in patients at high risk for developing Alzheimer's disease.

Larger-scale trials will be conducted in 2015 which could show this technique to be a viable approach to delay or even reverse age-associated mental decline and dementia.

"In future studies at UQCCR I also plan on assessing whether the combination of brain stimulation and cognitive training can counteract cognitive decline in normal ageing and prevent or delay progression from aMCI to AD," Associate Professor Meinzer said.

If you have any questions about this research, or would like information on participating in clinical trials, please contact **Garon Perceval** at g.perceval@uq.edu.au or phone **0421 235 651**.

UQCCR RESEARCHER Associate Professor
Marcus Meinzer
EMAIL m.meinzer@uq.edu.au



ANTIEPILEPTIC TREATMENT

ON THE HORIZON FOR INFANTS

“This simple and effective therapy will change standard clinical practice for the management of neonatal seizures.”

DR TRACEY BJORKMAN

Seizures are more common in the newborn period than at any other stage in human life and are associated with a significant risk of illness and death.

Current drugs used to treat seizures – while effective for children and adults – are relatively ineffective when used in babies. There is also some evidence antiepileptic drugs may be harmful to the developing brain.

Dr Tracey Bjorkman from the Perinatal Research Centre at UQCCR aims to prevent brain damage from seizures in babies by using something natural that is around us all the time – carbon dioxide (CO₂) gas.

Exciting preliminary evidence gathered by Dr Bjorkman shows a small amount of CO₂ is likely to prove to be an effective antiepileptic treatment in babies.

“Finding an effective treatment for seizures in babies is fundamental if we want to reduce brain injury and improve long-term neurodevelopmental outcomes,” Dr Bjorkman said.

Dr Bjorkman’s study, which recently received funding from the National Health and Medical Research Council, will fundamentally impact the long-term

neurodevelopmental outcomes for affected babies and significantly reduce the burden of brain injury on both families and society.

Larger-scale testing will be conducted by Dr Bjorkman and her colleagues in 2015 which could show this therapy to be an effective treatment for seizures in newborns. The team aim to progress this promising seizure therapy to clinical trials in the near future.

UQCCR RESEARCHER Dr Tracey Bjorkman
EMAIL t.bjorkman@uq.edu.au

PRETERM BABIES

“The project will provide the researchers with the tools they need to work out how to best ensure babies have normal neurodevelopment.”

PROFESSOR PAUL COLDITZ

When a baby is born too early, their brain development is often disrupted. A baby born very preterm (23-31 weeks) sadly has a high risk of developing motor, cognitive and behavioural problems later on.

Professor Paul Colditz, Neonatologist and Senior Researcher at UQCCR, aims to predict neurodevelopmental disability in babies born very preterm, earlier and more accurately than currently possible.

“We know preterm babies have an increased risk of poor neurodevelopmental outcomes,” Professor Colditz said.

“Despite that knowledge, we do not know what we need to do for these babies in the way of neuro-rehabilitation.”

Because it is a time when the brain is developing very rapidly, there is the potential for an intervention, which is aimed at trying to improve outcomes, to cause harm.

“We lack the understanding of just how the brain is developing so that we can understand which therapies would be most effective for those babies to get their brains to develop normally.”

Professor Colditz and his research team intend to use information on the latest developments on magnetic resonance imaging (MRI) and dense

array electroencephalography (EEG) to understand how the brain is structurally and functionally developing.

“Our project, in collaboration with the Monash Institute of Medical Research in Melbourne, will pull together data across the developmental trajectory of preterm babies,” Professor Colditz said.

“These tools will establish for us just which interventions will be effective in ensuring normal outcomes for preterm babies.”

Professor Colditz received a grant worth over \$1.6 million from the National Health and Medical Research Council in 2014 to pursue this research.

UQCCR RESEARCHER Professor Paul Colditz
EMAIL p.colditz@uq.edu.au

COMMUNITY

{PART 4}

COMMUNITY ENGAGEMENT



THOUGHT LEADERSHIP



GLOBAL PROGRAMS



LOCAL COOPERATIVES



COMMUNITY ACTION

DINNER WITH A SCIENTIST

Dr Marloes Dekker presented at the inaugural 'Dinner with a Scientist – The Microbiome and Human Health' event hosted by the Australian Society for Medical Research in June. Dr Dekker was one of four guest scientists and gave a presentation on 'Probiotics in Pregnancy'.

SUPERBUGS

Dr Hanna Sidjabat presented 'Currently emerging antibiotic resistant Gram-negative bacteria, genomic and proteomic characteristics' at numerous venues across Asia during 2014, including Siriraj Hospital, Mahidol University in Bangkok, Thailand.

ENGAGING STUDENTS IN SCIENCE

Professor Murray Mitchell, Dr Jacki Liddle and Dr Hari Subramanian welcomed four student scientists from Brisbane Boys College (BBC) in 2014. BBC students are given the opportunity to become involved in cutting-edge research at UQCCR through the 'BBC Student Scientist Partnership Program'.

UQCCR also hosted six high school students from the National University of Singapore for a week in July. This experience provided the students with a working understanding of key aspects of developing and validating in vitro diagnostics, with particular focus on obstetric and gynaecological applications.

Dr Jatin Patel participated in the 'National Stem Cell Foundation High School Interaction Event' in 2014. Answering students' questions about stem cells and clinical trials, Dr Patel was one of four expert panel members who participated in a Q&A session and smaller group discussions.

STUDENT ENGAGEMENT

PhD student Ms Betoul Baz gave a public lecture in Arabic about osteoporosis, risk factors and prevention for women. The lecture was organised by the Saudi Students' Club in Brisbane.

BREAST CANCER

In support of breast cancer research, the Lakhani group held their annual community representatives meeting in 2014 and National Breast Cancer Foundation morning tea in October 2014.

Dr Jodi Saunus gave a presentation at the Kenneth G. Jamieson Department of Neurosurgery, Royal Brisbane and Women's Hospital in November, on new targeted drug therapies for brain metastases from breast cancer.

Dr Saunus also spoke on this topic during Breast Cancer Awareness month (October) to the Queensland Cooperative Oncology group meeting, and the Royal Brisbane and Women's Hospital Cancer Services, Oncology Day Therapy Unit.

DEEP BRAIN STIMULATION

PhD student Andrea Giorni and Postdoctoral Research Fellow Dr Peter Poortvliet of the Asia-Pacific Centre for Neuromodulation (APCN) presented the keynote address at the Rotary Club of Maclean's 2014 Pride of Workmanship Awards.

LIONS CLUB EVENTS

Dr Tracey Bjorkman was a guest speaker at the Lions Q2 District Annual Convention, and the Lions Club Carrara fundraiser morning tea, where she presented 'Protecting the newborn brain'.

EDUCATING THE COMMUNITY ON PARKINSON'S DISEASE

Dr Robyn Lamont worked with Queensland Ballet during 2014 to assist them to evaluate the impact of their pilot "Dance for Parkinson's" program on gait, balance and hand dexterity.

Dr Lamont also spoke about recent and upcoming research on community walking in people with Parkinson's at the Young@Park social group meeting in April.

At the Parkinson's Queensland Inc "In touch with Parkinson's" seminar during October, Dr Lamont presented "Physiotherapy – strategies for improving movement in people with Parkinson's".

G20 GLOBAL CAFÉ

Professor Peter Silburn from the Asia-Pacific Centre for Neuromodulation at UQCCR joined the world's sharpest, provocative and most innovative minds at The Brisbane Global Café in November.

Professor Silburn featured during the 'Improving Human Life' session, sharing his expertise on the treatment and research of Parkinson's disease, related neurodegenerative disorders and Deep Brain Stimulation.

The Brisbane Global Cafe was a showcase of thought-leadership on key global issues, and linking local and visiting thought leaders with an international media audience. The event commenced three days before the 2014 G20 Leaders Summit.

APPENDICES

{PART 5}
APPENDICES

APPENDIX ONE

RESEARCH GRANTS 2014

New grants awarded in 2014 with a UQCCR lead investigator **totalled \$9,049,658**.
UQCCR researchers are indicated in bold.

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	GRANT TOTAL
ANZBCTG Discretionary Funding Research-Seed	Lakhani S , Scott A, Saunus J	Repurposing Pertuzumab for adjuvant treatment of breast cancer patients with HER2-positive brain metastases	2015-2015	\$49,975
ARC DECRA	Forlini C	The neuroethics of cognitive ageing: Balancing individual responsibilities and collective benefits	2015-2017	\$362,000
Australian Society for Antimicrobials	Paterson D , Peleg A, Iredell J	Randomised controlled trial of meropenem versus piperacillin-tazobactam for definitive treatment of bloodstream infections due to ceftriaxone non-susceptible Escherichia coli and Klebsiella spp.	2014-2015	\$25,000
Eli Lilly Australia Pty Ltd	Byrne G	Effect of Passive Immunization on the Progression of Mild Alzheimer's Disease: Solanezumab (LY2062430) versus Placebo	2013-2015	\$3,358
Heart Foundation	Patel J	Blood vessel stem cell technologies to improve cardiovascular disorders	2015-2016	\$150,000
International Society of Chemotherapy	Paterson D	Randomised controlled trial of Meropenem versus Piperacillin-Tazobactam for definitive treatment of bloodstream infections due to Ceftriaxone non-susceptible Escherichia coli and Klebsiella spp	2014-2014	\$73,460
M+BS Faculty Collaborative Workshop	Mitchell M , Roberts M, Moritz K	Assessing maternal, fetal and child toxicology	2014-2014	\$4,995
M+BS Faculty Collaborative Workshop	Gartner C , Gilks C, Punyadeera C	Reducing the harms from smoking among HIV positive and 'at risk' populations	2014-2014	\$5,000
M+BS Faculty Minor Research Infrastructure Funding (RIF) 2014	Patel J , Khosrotehrani K	Laser Doppler Perfusion Imaging (LDPI-High resolution) System	2014-2014	\$78,244
M+BS Faculty Minor Research Infrastructure Funding (RIF) 2014	McCombe P , Callaway L , Ngo S , Steyn F, Sly P, Dekker M , Czovek D, Henderson R	BodPod	2014-2014	\$99,880
Monash University	Rose S	Establishment of the Brain Cancer Discovery Collaborative - Cure Brain Cancer Foundation funding being administered by Monash University	2013-2014	\$109,091
Motor Neuron Disease Research Institute of Australia	McCombe P , Ngo S , Steyn F	Investigating the consequences of increased fat catabolism in Motor Neurone Disease	2014-2014	\$99,958
Motor Neuron Disease Research Institute of Australia	Henderson R , McCombe P	Blood biomarkers in ALS: Translation into clinical practice of pNfH and search for additional biomarkers using proteomics	2015-2015	\$100,000
Motor Neuron Disease Research Institute of Australia	McCombe P , Henderson R	A multicentre study of the impact of metabolic balance and dietary intake on the clinical parameters of disease progression	2015-2015	\$98,166
NHMRC Project Grant	Meinzer M , Copland D , McMahon K, Zubicaray G D	Neural mechanisms of language facilitation in aphasia due to transcranial direct current stimulation.	2015-2018	\$502,132
NHMRC Project Grant	Colditz P , Boyd R, Malhotra A, Rose S , Boashash B , Ditchfield M, Fahey M, Pannek K , Moldrich R	Neurodevelopment of the preterm infant	2015-2019	\$1,645,150
NHMRC Project Grant	Lavin M , Roberts T, Kozlov S , Graham M	To investigate the role of ATM protein in protecting against neurodegeneration	2015-2018	\$920,798
NHMRC Project Grant	Bjorkman T , Colditz P , Vanhatalo S	Carbon dioxide as a treatment for seizures in the newborn	2015-2017	\$850,890
NHMRC Project Grant	Simpson P , Ragan M, Waddell N	Defining the genomic and therapeutic landscape of familial breast cancer	2015-2017	\$1,114,997
Pathfinder Commercialisation Grant – UniQuest Pty Ltd	Khosrotehrani K , Patel J	Endothelial progenitors for term placenta for vascular therapy	2015-2015	\$29,520
Priority-driven Collaborative Cancer Research Scheme 2014 - National Breast Cancer Foundation	Lakhani S , Waddell N, Simpson P , Stratton M, Tan PH	Unravelling clinical and molecular heterogeneity in metaplastic breast cancer - a unique 'stem cell like' malignancy	2015-2017	\$518,000

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	GRANT TOTAL
Qatar National Research Fund	Colditz P , Boashash B	Automated Neonatal EEG Quality Assessment and Improvement using Artefact Filtering and Signal Segmentation	2013-2015	\$155,740
RBWH Foundation	Pritchard M , Kain V	The Praecox Program: Pilot study of an outline educational program to improve neonatal palliative care practice	2014-2014	\$28,020
RBWH Foundation	Green B , Lakhani S , Simpson P , Reed A , Saunus J	Prospective study of breast cancer progression by content analysis of circulating exosomes in serially collected blood samples	2013-2014	\$40,000
RBWH Foundation	Colditz P , Sanders M, Boyd R, Pritchard M , Gray P, O'Callaghan M, Slaughter V, Whittingham K	Prem Baby Triple P: A RCT of Enhanced Parenting to Improve Developmental Outcomes in Preterm Infants	2014-2014	\$41,700
RBWH Foundation	Lakhani S , Simpson P , McCart R, Saunus J	Expansion of the Brisbane Breast Bank: a prospective study developing biomarkers of response and recurrence	2013-2014	\$100,000
RBWH Foundation	Sam S , Eiby Y , Colditz P	Is angiotensin II a better inotrope than dopamine in preterm infants	2015-2015	\$63,435
RBWH Foundation	Colditz P , Eiby Y , Sam S , Sullivan S	Effective volume expansion in preterm neonates: cardiovascular and cerebral outcomes	2015-2015	\$40,000
RBWH Foundation	Gardiner F , Lavin M , Hill M , Roberts M , Yaxley J	Exploring new paradigms in Pre-prostate Cancer detection and management	2014-2014	\$70,000
RBWH Foundation	Lai M , Bjorkman S	Defining the mechanisms of hypothermic neuroprotection in the HIE newborn.	2015-2015	\$40,000
RBWH Foundation	Gardiner F , Lavin M , Hill M , Roberts M , Yaxley J	Exploring new paradigms in Pre-prostate Cancer detection and management	2015-2015	\$40,000
RBWH Foundation	Appadurai K, Byrne G , Meinzer M	Transcranial direct current stimulation to improve cognition and learning in prodromal Alzheimer's disease	2015-2015	\$31,000
RBWH Foundation	Duncombe G , Salomon C , Rice G	Role and regulation of placenta-derived exosomes in the onset and development of Gestational Diabetes Mellitus (GDM)	2015-2015	\$60,000
RBWH Foundation	Paterson D , Harris P , Lipman J	Pilot Randomised Controlled Trial of Meropenem versus Piperacillin - Tazobactam for the Definitive Treatment of Bloodstream Infections caused by AmpC beta-lactamase producing Enterobacter spp., Serratia SPP, Citrobacter freundii, Providencia spp. or Morganella morganii in low-risk patients ("MERINO-2" Trial)	2015-2017	\$40,000
Society of Hospital Pharmacists	Avent M , Paterson D , Roberts J	Randomised controlled study of an intense short course of optimised combination therapy versus conventional therapy for the management of gram negative bacteraemia	2014-2014	\$20,000
Stichting Incontinence Foundation	Subramanian H	Deep brain stimulation therapy for treatment of urge-incontinence and overactive bladder	2014-2017	\$40,709
The Research Foundation, Cerebral Palsy Alliance	Pelekanos R , Fisk N , Cahill Z, Colditz P , Boyd R, Rose P	Stem cell therapy and neurostimulation repair of white matter injury to prevent cerebral palsy	2014-2016	\$145,000
The Royal Brisbane & Women's Hospital Auxiliary Inc	Lingwood B , Donovan T	Human Milk Analyser	2014-2015	\$27,000
University of New South Wales – DCRC Funding	Liddle J , Brodaty H, Sachdev P, Pachana N, Brauer S, Karunanithi M, Gustafsson L, Reppermund S, Ireland D, McBride S, Lamont R	Lifespace and people with dementia: Measuring and reenabling continued community participation	2014-2015	\$59,040
UQ Academic Title Holder Scheme	Markey K, Paterson D , Geoff H	Developing new ways to predict infection in patients undergoing chemotherapy and bone marrow transplantation	2015-2015	\$40,000
UQ Academic Title Holder Scheme	Joshi V, Rice G , Salomon C	Exosomes as potential biomarkers for pancreatic cyst risk stratification for Pancreatic cancer	2015-2015	\$40,000
UQ Early Career Researcher	Salomon C	The role of placenta-driven exosomes in the pathophysiology of preeclampsia	2015-2015	\$40,000
UQ M+BS Emerging Leaders Grant	Salomon C	Role of Placenta-derived exosome in reprogramming maternal physiology to accomplish an insulin resistance.	2014-2014	\$10,000
UQ M+BS Emerging Leaders Grant	Roy E	Epidermal stem cell tracking at single cell level using in vivo live imaging	2014-2014	\$10,000
UQ M+BS Emerging Leaders Grant	Pelekanos R	The analysis of the Growth Hormone axis in young Cerebral Palsy patients -- a novel treatment option?	2014-2014	\$9,913
UQ M+BS Emerging Leaders Grant	Sullivan S	Protecting newborn brain cells with erythropoietin	2014-2014	\$10,000
UQ M+BS International Student Travel Grant	Subramanian H , Ajayi I	Universitätszentrum Overgurgl	2014-2014	\$4,000

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	GRANT TOTAL
UQ M+BS International Travel Grant	Salomon C	Institut Curie, Paris France for International Federation of Placenta Associations (IFPA)	2014-2014	\$2,000
UQ M+BS International Travel Grant	Sidjabat H	Mahidol University, Bangkok, Thailand for 4th Next Generation Sequencing and 2nd single cell genomics Asia congress	2014-2014	\$2,000
UQ Major Equipment and Infrastructure	Meinzer M, Copland D , Brauer S, De Zubricaray G, Breakspear M, McMohan K, Dux P, Molenberghs P	High definition transcranial direct current stimulation system for use during functional magnetic resonance imaging	2014-2014	\$34,204
UWA-UQ Partnership research collaboration awards	Paterson D , Webb S	Incidence, risk factors consequences and treatment of ventilated patients with nosocomial infection with pandrug resistant organisms in hospitals of Asia	2015-2015	\$20,000
Victorian Health Promotion Foundation	Gartner C	Economics of tobacco harm reduction	2014-2014	\$22,694
NHMRC Project Grant	Khosrotehrani K , Francois M	Role of resident endothelial progenitor cells in melanoma vascularisation and progression	2015-2017	\$922,589

New grants awarded in 2014 where a UQCCR investigator is part of the research team **totalled \$14,887,658**.
UQCCR researchers are indicated in bold.

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	GRANT TOTAL
NHMRC Project Grant	Rose M, Copland D , Nickels L, Togher L, Meinzer M , Ong B, Godecke E	COMPARE- Constraint Induced or Multi-Modal aphasia rehabilitation: An RCT of therapy for stroke related chronic aphasia	2015-2018	\$998,167
NHMRC Project Grant	Zubricaray G D, Robinson G, Copland D , McMahon K, Drummong K, Phal P	A prospective study of language impairment and recovery following surgery for brain tumours	2015-2019	\$823,666
NHMRC Project Grant	Schenk G, McGeary R, Guddat G, Sidjabat H	An integrated approach to combat antibiotic resistance	2015-2017	\$377,077
NHMRC Project Grant	Schofield P, Juraskova I, Frydenberg M, Chambers S, Louisa G, Gardiner F	ASTROID: Active Surveillance and other TRreatment Options for prostate cancer. A randomised controlled trial of decision aid and DVD information support for men diagnosed with low-risk prostate cancer and their partners	2015-2018	\$749,704
NHMRC Project Grant	Woodruff T, McCombe PA , Ruitenberg M, Chung R	Determining the contribution of peripheral immune complement signalling in the progression of motor neuron disease	2015-2019	\$958,723
NHMRC Project Grant	Zakar T, Hirst J, Mitchell M	Epigenetic regulation of inflammatory genes in the fetal membranes: role in term and preterm birth	2015-2017	\$452,728
NHMRC Project Grant	Davis J, Tong S, Paterson D , Fowler V, Howden B, Cheng A, Chatfield M, Lipman J , Van Hal S, O'Sullivan M	CAMERA: Combination antibiotic treatment for Methicillin Resistant Staphylococcus Aureus Bacteraemia - a Randomised Controlled Trial	2015-2019	\$1,113,531
NHMRC Project Grant	Jonathan G, Christos T, Walker P	The role of angiotensin converting enzyme 2 in limiting complications of aortic aneurysm.	2015-2017	\$663,475
NHMRC Project Grant	Jonathan G, Walker P	Upregulating kallistatin to limit abdominal aortic aneurysm.	2015-2017	\$648,022
NHMRC Project Grant	Walker G, Khosrotehrani K	Systems analysis of epidermal biology and cancer	2015-2018	\$1,253,838
NHMRC Project Grant	Boyd R, Ziviani J, Sakzewski L, Novak I, Badawi N, Pannek K , Elliott C, Greaves S, Guzzetta A, Whittingham K	REACH: Randomised trial of Early rehabilitation in congenital Hemiplegia	2014-2018	\$939,039
ARC Discovery Project	De Zubricaray G, McMohan K, Meinzer M	Concepts and control in speech production	2015-2017	\$286,300
NHMRC Project Grant	Coin L, Simpson PT , Waddell N, Ganesamoorthy D	Using somatic copy number and methylation profiling of circulating tumour DNA to monitor heterogenous tumour development in Breast Cancer	2015-2016	\$184,580
NHMRC Project Grant	Schofield P, Juraskova I, Frydenberg M, Chambers S , Gordon L, Gardiner F	ASTROID: Active Surveillance and other Treatment Options for prostate cancer. A randomised controlled trial of decision aid and DVD information support for men diagnosed with low-risk prostate cancer and their partners	2015-2018	\$749,704

GRANTING BODY	INVESTIGATORS	PROJECT TITLE	DATES	GRANT TOTAL
NHMRC Project Grant	Chambers S , Smith D, Berry M, Lepore S, Foley E, S, Frydenberg M, Gardiner R	A randomised trial of a mindfulness intervention for men with advanced prostate cancer.	2015-2018	\$706,243
NHMRC Project Grant	Yap I, Neufeld Z, Gomez G, Simpson P	(Dys)Regulating junctional tension: a novel mechanism in tumour cell biology	2014-2016	\$708,285
Ochsner Translational Medicine Research Initiative	Bagert B, Greer J , Pender M	Do antibodies against myelin proteolipid protein play a role in multiple sclerosis?	2014-2014	\$50,000
Queensland Health Strategic Health Initiatives	Czovek D, Sly P, Dekker M , Callaway L , McIntyre D	Longitudinal effects of probiotic supplementation during pregnancy on the body composition and growth of infants	2015-2014	\$78,000
QCMR and QUT Collaborative Seeding Grants Scheme	Toms L, Harden F, Sly P, Callaway L , Dekker M , Barrett H , Maher B, English K, Mueller J	study of environmental pollutants—transfer from mother to fetus	2015-2015	\$25,000
Motor Neurone Disease Research Institute of Australia Inc	Woodruff T, Cooper M, McCombe P , Schroder K, Gordon R	Therapeutic targeting of the NLRP3 inflammasome using a potent and orally active inhibitor in experimental MND	2015-2016	\$110,000
Motor Neurone Disease Research Institute of Australia Inc	Mangelsdorf M, Bartlett P, McCombe P , Henderson R	Targeting EphA4 as a treatment for MND	2014-2014	\$110,000
Motor Neurone Disease Research Institute of Australia Inc	Wray N, McCombe P , Henderson R , Mangelsdorf M, Zhao Q	Whole exome sequencing of sporadic MND	2014-2014	\$110,000
Motor Neurone Disease Research Institute of Australia Inc	Woodruff T, McCombe P , Ruitenberg M	Innate immune complement signalling in peripheral immune cells during the progression of motor neurone disease	2014-2014	\$109,336
UQ Major Equipment and Infrastructure	Borges K, Chen C, Mazzone S, McCombe P , Minchin R, Mortiz K, Muscat G, Piper M, Steptoe R, Thomas W, Waters M, Wolvetang E	Mitochondrial analysis suite	2014-2014	\$175,500
NHMRC Project Grant	McGucking M, Hasnain S, Whitehead J, Forbes J, Prins J, Coombes J, Pettit A	IL-22 as a Suppressor of Pancreatic – Cell Stress and a Treatment for Diabetes	2015-2018	\$822,656
Royal Brisbane and Women's Hospital	Denny K, Cohen J, Paterson D , Lipman J , Evans D, Dulhunty J, Ungerer J, Mcwhinney B	The Biomarker for Sepsis to Thwart Antibiotic Overuse in the Intensive Care unit	2015-2015	\$56,898
UQ Major Equipment and Infrastructure	Lipman J , Roberts J, Paratz J, Paterson D	Strengthening the School of Medicine's position as a central coordinator of global pharmacokenetic studies in critically ill patients	2014-2014	\$110,790
Cerebral Palsy Alliance	Boyd R, Colditz P , George J, Rose S	Prediction of preterm early motor and neurodevelopmental outcomes using advanced brain imaging and an early assessment toolbox	2014-2016	\$148,500
Financial Markets Foundation for Children	Boyd R, Colditz P , George J	PPREMO: Prediction of PReterm Early Motor and neurodevelopmental Outcomes	2014-2016	\$151,784
Stanley Medical Research Institute	Berk M, McGrath J, Dean O, Lapau W, Dodds S, Scott J , Dark F.	The efficacy of adjunctive Garcinia mangostana Linn (mangosteen) pericarp for the treatment of Schizophrenia: A double-blind, randomized, placebo controlled trial.	2015-2018	\$1,156,112
RBWH Foundation	Wong A, Coulthard S, Read S, Finnigan S	Continuous Monitoring During Acute Stroke Reperfusion Therapy.	2014-2015	\$60,000
Pathology Queensland – SERC	Sidjabat H	Characterisation of AmpC producing E. coli by whole genome sequencing approach	2014-2015	\$26,500
AID	Sidjabat H	Genome sequencing of IMP-producers	2014-2015	\$6,500

APPENDIX TWO

UQCCR PUBLICATIONS

UQCCR researchers are indicated in bold.

BOOKS 2014

1. **Holstege, G.**, Beers, C., & **Subramanian, H.** (2014). The central nervous system control of respiration. Amsterdam: Elsevier.
 2. **Holstege, G.**, Beers, C., & **Subramanian, H.** (2014) Breathing, emotion and evolution.Amsterdam: Elsevier.
 3. Mishra, G. D., Loxton, D., Anderson, A., Hockey, R., Powers, J., Brown, W. J., Dobson, A. J., Duffy, L., Graves, A., Harris, M., Harris, S., **Lucke, J. C.**, McLaughlin, D. P., Mooney, R., Pachana, N. A., Pease, S., Tavenor, M., Thomson, C., Tooth, L. R., Townsend, N., Tuckerman, R. & Byles, J. (2014) Health and wellbeing of women aged 18 to 23 in 2013 and 1996: findings from the Australian Longitudinal Study on Women's Health Canberra, ACT, Australia: Australian Government Department of Health
- ## BOOK CHAPTERS 2014
1. **Mosley, P.**, & Lyness, J. (2014). Physical co-morbidity with mood disorders. In A. P. Nancy & L. Ken (Eds.), The Oxford handbook of clinical geropsychology. Oxford, United Kingdom: Oxford University Press.
 2. **Roberts, M. J.**, **Schirra, H.**, **Lavin, M. F.**, & **Gardiner, R. A.** (2014). NMR-based metabolomics: global analysis of metabolites to address problems in prostate cancer. In P. iConcept (Ed.), Breast, cervical and prostate cancer (pp. 1-43). Tokवान, Kowloon, Hong Kong: iConcept Press.
 3. **McCombe, P. A.**, & **Greer, J. M.** (2014). Sexual dimorphism in the immune system. In R. M. Ian & R. R. Noel (Eds.), The Autoimmune Diseases (5th ed., pp. 319-328). San Diego, United States: Academic Press.
 4. Wang, X., Zhao, L., & **Zhao, K.-N.** (2014). An optimized yeast cell-free lysate system for in vitro translation of human virus mRNA. In A. Kirill & A. J. Wayne (Eds.), Cell-free protein synthesis: methods and protocols (pp. 219-230). New York, United States: Springer.
 5. **Farah, C.**, **Jessri, M.**, Kordbacheh, F., **Bennett, N.**, & **Dalley, A.** (2014). Next generation sequencing applications in head and neck oncology. In "Next generation sequencing in cancer research, Volume 2: From base pair to bedside. Springer (Eds.), Wei Wu & Hani Choudhry.
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APPENDIX THREE

AWARDS 2014

NAME	AWARD
Dr Cynthia Forlini	Early Career Scholar Award, Brain Matters! Vancouver: Brain Science and Social Responsibility
Professor Robert ‘Frank’ Gardiner	Royal Brisbane and Women’s Hospital Distinguished Research Award
	Appointed a Fellow of the Urological Society of Australia and New Zealand
	‘Frank Gardner Award’ was initiated by the Board of Urological Society of Australia and New Zealand for the highest score in SSE (Urol) of Australian and New Zealand Urology trainees
Dr Jacki Liddle	Shimadzu Outstanding Young Investigator Award, UQCCR Shimadzu Awards Seminar
Dr Barbara Lingwood	Shimadzu Research Excellence Award, UQCCR Shimadzu Awards Seminar
Dr Jatin Patel	Shimadzu Outstanding Young Investigator Award, UQCCR Shimadzu Awards Seminar
	Best Oral Presentation Award, International Placenta Stem Cell Society
	ATVB Young Investigator Prize, Council on Arteriosclerosis, Thrombosis and Vascular Biology, American Heart Association
Dr Rebecca Pelekanos	Shimadzu Outstanding Young Investigator Award, UQCCR Shimadzu Awards Seminar
Dr Allison Pettit	Outstanding Abstract Award, Australian and New Zealand Bone and Mineral Society
Mr Casey Pfluger	Best Green Labs Program Initiative
	Best Green Office Program Initiative
Dr Margo Pritchard	The 2015 Distinguished Visiting Professor, Lawrence S Bloomberg Facility of Nursing, University of Toronto
Dr Renee Richards	Shimadzu Outstanding Young Investigator Award, UQCCR Shimadzu Awards Seminar
Dr Carlos Salomon	Best Basic Science Poster, 23rd annual Royal Brisbane and Women's Hospital Healthcare Symposium
	International Travel Award, Faculty of Medicine and Biomedical Sciences
	Early Career Research Excellence Award, UQCCR Shimadzu Awards Seminar
Dr Hanna Sidjabat	Travel Award, Australian Society for Antimicrobials
	International Travel Award, Faculty of Medicine and Biomedical Sciences
Dr Susan Sullivan	Outstanding Young Investigator Award, UQCCR Shimadzu Awards Seminar

STUDENT AWARDS

NAME	AWARD
Mr Itopa Ajayi	Shimadzu Outstanding Student Award, UQCCR Shimadzu Awards Seminar
Ms Betoul Baz	UQ School of Medicine 3-Minute-Thesis competition winner
	Faculty of Medicine and Biomedical Sciences 3-Minute-Thesis People's Choice Award winner
	Best poster presentation award, Australasian Society for Dermatological Research
	UQ Graduate School International Travel Award
Ms Miharu Kobayashi	New Investigator Research Excellence Award, UQCCR Shimadzu Awards Seminar
Dr Matthew Roberts	Shimadzu Outstanding Student Award, UQCCR Shimadzu Awards Seminar
Mr Casey Rowe	Best Poster presentation award, Australian College of dermatologists annual meeting
Mr Hosam Zowawi	Rolex Award for Enterprise
	Science and Innovation Champion, Department of Science, Information Technology, Innovation and the Arts

APPENDIX FOUR

CONFERENCE

PRESENTATIONS 2014

INVITED SPEAKERS	
Professor Paul Colditz	Invited Speaker: HIRF-Siemens Neurology/Mental Health Workshop, QIMR Berghofer Medical Research Institute, Brisbane, Australia (May)
	Keynote Speaker: Perinatal neuroscience, National Medicolegal Update, Maurice Blackburn, Brisbane, Australia (May)
	Invited Speaker: UQ Maternal and Child Health Research Networking Symposium, Brisbane, Australia (November)
	Invited Speaker: “NHMRC Fellowship application issues”, Grant writing Workshop, Brisbane, Australia (December)
Associate Professor Camile Farah	Invited Speaker: “Update on Oral Cancer”, Faculty of Dentistry, University of Padjadjaran, Indonesia, (December)
	Invited Speaker: “Advances in Optical Adjunctive Aids for Visualisation and Detection of Oral Cancer and Mucosal Pathology”, DHAA Annual Conference, Canberra, Australia (November)
	Invited Speaker: “Narrow Band Imaging in Oral Oncology”, Olympus Narrow Band Imaging Australian Symposium, Brisbane, Australia (October)
	Invited Speaker: “Personalised Patient Care in Oral Oncology”, 54th IADR ANZ Meeting, Brisbane, Australia (September)
	Invited Speaker: “Improved surgical margin definition by narrow band imaging for resection of oral squamous cell carcinoma”, Tri-Society Head and Neck Cancer Conference, Darwin, Australia (August)
Professor Nicholas Fisk	Invited Speaker: “Management of Premalignant Lesions” & “Oral Cancer Early Detection”, AAOM/EAOM/BSOM/OMAA Joint meeting in conjunction with WWOM, Orlando Florida (April)
	Invited Speaker: “Common Oral Pathology”, Australian Doctor Dermatology Symposium (February)
	Invited Selection Committee Member: King Faisal International Prize, The King Faisal Foundation Riyadh, Saudi Arabia (January)
	Invited Keynote Lecture: “From Molecule to Man”. 11th Updates in Infertility Treatment (UIT) meeting, Prague, Czech Republic (January)
	Invited Chair of Session: “Fetal Therapy & Maternal-Fetal Tolerance: Overcoming barriers to successful fetal stem cell transplantation”. University of California San Francisco (UCSF), San Francisco, USA (April)
Dr Cynthia Forlini	Session Chair and Invited Discussion Panel Member: Australian Medical Association (AMA) Queensland Inaugural Junior Doctor Conference. Brisbane, Australia (June)
	Invited Chair of Session: International Society for Prenatal Diagnosis (ISPD) Conference, Brisbane, Australia (July)
	Invited Chair of Session: Association of Academic Health Centres International (AAHCI), East Asia Regional Meeting. Seoul, South Korea (November)
	Invited Speaker: Neuroethics Down-Under, Melbourne, Australia (December)
	Invited Speaker: “Functional effects of autoantibodies against myelin proteolipid protein in multiple sclerosis”, Australian Neuroscience Society Annual Conference, Adelaide, Australia (January)
Associate Professor Kiarash Khosrotehrani	Keynote Talk: World Rendez-Vous in Dermatology, Tokyo, Japan (March)
	Invited Plenary: Skin Biology Symposium, 2014, Singapore (May)
	Invited Speaker: AHMR meeting, Molecular and Experimental Pathology Society of Australia, Melbourne, Australia (November)
	Invited Speaker: Australian Wound and Tissue Repair Society, Gold Coast, Australia
Professor Sunil Lakhani	Invited Speaker: Hunter valley cell biology meeting, (March)
	Invited Speaker: Is pathology really of the slide? The Vincent McGovern Memorial lecture. 39th Australian Division of the IAP, Brisbane, Australia
	Invited Speaker: New Biomarkers for Breast Cancer. International Society of Breast Disease at USCAP. San Diego, USA
	Invited Speaker: Pathology and Sample collection for the trial. OlympiA Clinical Trail – Investigators Meeting, The Hague, The Netherlands
Professor Pamela McCombe	Invited Speaker: Pregnancy Outcomes in the Alemtuzumab MS Clinical Development Program, PACTRIM meeting, Taipei, Taiwan (November)

INVITED SPEAKERS	
Associate Professor Marcus Meinzer	Invited Workshop: “How to assess motor and cognitive functions in dementia: Cognitive Assessments”, Department of Sports Science, Karlsruhe Institute of Technology (October)
	Invited Speaker: “Basics and Principles of Neuroplasticity in Neurorehabilitation”, Annual Meeting of the German Society for Neurotraumatology and Clinical Neurorehabilitation, DGNKN, Singen, Germany (December)
	Invited Lecture: “Transcranial direct current stimulation to improve cognition and brain functions in healthy and pathological ageing”, the Department of Psychology, University of Zürich (October)
Professor Murray Mitchell	Invited Speaker: “Research at UQ Centre for Clinical Research – We transform lives” Ochsner Health System New Orleans, USA (May)
	Invited Discussant: “Epigenetics of pregnancy and birth” Sienna Forum on Preterm Birth, S.Donato Hall, Rocca Salimbeni, Sienna, Italy (March)
	Invited Speaker: “Epigenetics of pregnancy and birth”, RANZCOG Qld/NSW Regional Scientific Meeting, Gold Coast, Australia (June)
	Invited Plenary: “The University of Queensland Translational Medicine – Research for a Clinical Approach”, Departments of Obstetrics and Gynecology of Clinica Santa Maria and Clinical Davila Santiago, Chile (August)
Dr Allison Pettit	Invited Plenary: “Macrophages are a viable therapeutic target to enhance fracture repair via endochondral callus formation”, Australian and New Zealand Bone and Mineral Society Annual Conference, Queenstown, New Zealand (September)
Dr Margo Pritchard	Invited Speaker: “Stress, Depression & Reflective Functioning in Mothers of Preterm Infants”, Perinatal Society of Australia and New Zealand (PSANZ) networking the New Frontier, Perth, Australia (April)
Dr Renee Richards	Invited Speaker: “Diagnostic and therapeutic potential of extracellular vesicles and exosomes”, Australian Prostate Cancer Research Centre, Brisbane, Australia (October)
Dr Benjamin Rogers	Invited Speaker: “Food and Water Sources of ESBL and AmpC Enzymes”, Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington DC, USA (September)
Dr David Rowell	Invited Speaker: “Deep brain stimulation and its effect on the cost of Parkinson’s medications” XX1st ESSFN Congress, Maastricht, The Netherlands (September)
Dr Carlos Salomon	Invited Lecture: “Contemporary methods for investigation of placental dysfunction”, 18th International Conference on Prenatal Diagnosis and Therapy (ISPD), Brisbane, Australia (July)
	Invited Workshop: “Biomarkers of pregnancy pathologies”, International Federation of Placental Associations (IFPA), Paris, France (September)
	Invited Lecture: “Gestational diabetes mellitus is associated with high concentration of placenta-derived exosomes in maternal circulation”, Australasia Extracellular Vesicles Conference, Cairns, Australia (November)
Associate Professor James Scott	Invited Plenary: Personal Resilience AMAQ Inaugural Junior Doctor’s Conference, Brisbane, Australia (February)
	Invited Workshop: “ADHD: The Most Treatable Neurodevelopmental Disorder”, RIS Equity Meeting, Brisbane, Australia (October)
	Invited Lecture: “Bullying: The Most Important Risk Factor for Mental Illness”, The Barton Pope Lecture, Adelaide, Australia (October)
	Invited Plenary: “Medications for Children with Autism”, AEIOU Annual Conference, Brisbane, Australia (June)
	Invited Keynote: “Immune dysregulation; NMDA receptor Antibodies and Psychosis”, Rotary Early Psychosis Forum, Gold Coast, Australia (August)
	Invited Plenary: “It is easier to build strong children than to repair broken men”, The RANZCP Faculty of Child and Adolescent Psychiatry Bi-National Conference, Gold Coast, Australia (June)
Dr Hanna Sidjabat	Invited Keynote: “NMDA receptor Antibodies and Psychosis: A cause of schizophrenia?”, Princess Alexandra Hospital Health Care Symposium, Brisbane, Australia (August)
	Invited Plenary: Psychosis in Adolescence Inaugural National Neurodevelopmental and Behavioural Paediatric Society of Australia Conference, Brisbane, Australia (May)
	Invited Speaker: “Detection of antibiotic resistance: phenotypic, genomic and proteomic characterisation”, Microbiology and Infectious Diseases Congress, Singapore (June)
Dr Hari Subramanian	Invited Speaker: “The periaqueductal gray and control of emotional expression”, Circuits for Positive Emotions Congress, Ascona, Switzerland (October)
	Invited Speaker: “Neuromuscular correlates of midbrain periaqueductal gray induced vocalization in decerebrate cats: Principles of descending laryngeal and respiratory motor control”, Nanosymposium, Society for Neuroscience, Washington DC, USA (November)

APPENDIX FIVE

UQCCR SEMINARS 2014

DATE	NAME OF SPEAKER	TITLE OF TALK
13/02/2014	Professor Murray Mitchell	Trust Me – I'm a Doctor
20/02/2014	Dr Igor Makunin	Resources Available through Genomics Virtual Laboratory
27/02/2014	Dr Linda Byrne	The Effect of the Oral Contraceptive Pill on Cognition, Mood and Fatigue
06/03/2014	Professor David Paterson, Dr Hanna Sidjabat, Alex Wailan, Dr Nikki Townell	Carbapenem Resistant Enterobacteriaceae – The Real Superbugs
13/03/2014	Dr Jason Lee	Epigenetic Regulation in Breast Cancer
20/03/2014	Dr David Simmons	Please Pass the Sulphate: Placental Transport and Healthy Fetal Development
03/04/2014	Professor Rachel Huxley	A Tale of Two Halves
24/04/2014	Dr Amberyn Thomas	Using Metrics to your Advantage
01/05/2014	Dr Andrew Brooks	A New Paradigm in JAK2 Activation Shown by the Growth Hormone Receptor, and an Essential Role of Growth Hormone in Liver Regeneration
08/05/2014	Professor David Paterson, Dr David Kvaskoff, Dr Hanna Sidjabat, Benjamin Toh	Mass Spectrometry and its Application for Bacterial Epidemiology and Antibiotic Resistance Characterisation
15/05/2014	Professor Sidney Dekker	“We Need to Wage War Against the Health and Safety Monster...” – Bureaucracy and Resilience in Research Work.
22/05/2014	Dr Juliet French	Decoding the Non-Coding: Understanding How DNA Variants in Non-Coding Regions of the Genome Influence Breast Cancer Risk
29/05/2014	Dr Karen Moritz	Mechanisms of Impaired Development Due to Periconceptional Alcohol Exposure
05/06/2014	Professor Lyn Griffiths	Molecular Genetics of Migraine
12/06/2014	Professor Sarah-Jane Dawson	Circulating Tumour DNA as a Liquid Biopsy in Cancer
19/06/2014	Dr Carlos Salomon, Dr Peter Simpson, Dr Maxine Preston	Enhanced Research Tools at UQCCR
26/06/2014	Dr Nikolas Haass	Dynamics of Cell Division and Cell Death of Individual Melanoma Cells within the Complex Tumour Microenvironment
24/07/2014	Professor Tony Perkins	Placental Oxidative Stress in Preeclampsia and the Importance of Selenium
31/07/2014	Dr Christelle Adolphe	Distinct Levels of Hedgehog Signalling Define Epidermal Lineage Specification and Tumorigenesis
07/08/2014	Dr Dan Siskind	Personalised Support and Accommodation Programs for People with Severe Mental Illness
14/08/2014	Dr Paul Dawson	Sulfate in Pregnancy and Preterm Babies: What we ought to know
21/08/2014	Dr Enzo Porrello	A Neonatal Blueprint for Cardiac Regeneration
28/08/2014	Dr Mathias Francois	Soxing it to Cancer: Developing a New Strategy to Manipulate Blood Vessel Growth
04/09/2014	Dr Nadeeka Dissanayaka	Parkinson's Disease: A Quintessential Neuropsychiatric Disorder
25/09/2014	Ms Hassendri (Nel) Peiris	Myostatin in the Human Placenta: Expression and Potential Functions
16/10/2014	Professor John Prins	Coming to Grips with (ER) Stress, Immunity, Fat and Sugar – A New Treatment for Diabetes?
23/10/2014	Dr Coral Gartner	E-Cigarettes: A Life-Saving Health Technology or Big Tobacco's Latest Scam?
30/10/2014	Associate Professor Nick Saunders	Identifying New Drug Targets in Advanced Cancer
06/11/2014	Dr Jonathan Beesley	Using Computational and Experimental Approaches to Pinpoint Mechanisms Underlying Genome-Wide Association Signals
13/11/2014	Professor Chris Rowe	Neuroimaging in Dementia

APPENDIX SIX

RESEARCH HIGHER DEGREE STUDENTS 2014

UQCCR supervisors are shown in bold.

COMPLETIONS IN 2014

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE
Adnan, Syamhanin	PhD	Professor D Paterson , Associate Professor J Roberts, Professor J Lipman , Dr S Wallis	Improving Antimicrobial Use In Critically Ill Patients
Allen, Kristine	MPhil	Associate Professor C Farah, Dr P Ford	Barriers to early detection of oral cancer: perceptions and experience of patients and healthcare providers
Bhatia, Nirav	MPhil	Associate Professor C Farah, Dr M Matias	Efficacy of VELscope in clinical practice and a histopathological correlation with lichenoid lesions
Blum, Stefan	PhD	Associate Professor P McCombe, Dr J Greer	Pathogenesis of Guillain-Barre syndrome and chronic inflammatory polyradiculoneuropathy
Currie, Sean	MPhil	Associate Professor C Farah, Dr A Dalley	Alcohol-containing mouthwashes: Cellular and molecular changes
Dong, Shiyang	PhD	Professor P Colditz, Professor B Boashash, Dr B Lingwood, Dr G Azemi	Time-frequency characterisation of heart rate variability signals: applications to the analysis and detection of perinatal asphyxia
Flanagan, Kieran	PhD	Dr A Angwin, Associate Professor D Copland	The role of perceptual symbols in the representation of semantic concepts in dementia
Harper-Hill, Keely	PhD	Associate Professor D Copland , Dr W Arnott	Language processing in autism spectrum disorders: Performance as a function of modality
Kong, Fiona Yin Mei	PhD	Dr A Clements, Professor D Paterson , Professor M Whitby, Professor M Corry	Novel approaches to the surveillance of healthcare acquired infections
Lai, Foon	PhD	Professor J Mueller, Dr C Gartner , Dr C Ort, Dr S Carter	Measuring population illicit drug use through wastewater analysis: temporal trends, spatial differences and specific events
Lalla, Yastira	MPhil	Associate Professor C Farah, Dr M Matias	Identafi: Prospective screening for oral mucosal lesions in Indigenous and high risk populations
Leveque, Lucie	PhD	Associate Professor K Khosrotehrani , Dr G Hill, Dr K MacDonald	Immune mediators of alloreactive responses in allogeneic stem cell transplantation and in pregnancy-induced microchimerism
McDonald, Cameron	PhD	Associate Professor J Bauer, Professor S Capra	The Muscle mass, omega-3, exercise, diet and lifestyle study (MODEL): For women after completion of breast cancer treatment
Nayler, Samuel	PhD	Professor M Lavin , Associate Professor E Wolvetang	Induced Pluripotent Stem Cells from patients with Ataxia-Telangiectasia
Omidvarnia, Amir	PhD	Professor P Colditz, Dr G Azemi, Professor B Boashash, Dr S Vanhatalo	Newborn EEG connectivity analysis using time-frequency signal processing techniques
Pannek, Kerstin	PhD	Associate Professor S Rose, Professor P Colditz	Diffusion MRI of the preterm infant brain
Poortvliet, Peter	PhD	Dr K Tucker, Professor P Hodges	Insights into the mechanisms that underlie neuromuscular adaptation to pain using postural and volitional focused motor tasks
Reinebrant, Hanna	PhD	Dr K Buller, Professor P Colditz	The brainstem serotonergic system following neonatal hypoxic-ischemic injury
Sa Ariwijaya, Mohd Shazrul	PhD	Professor M Lavin , Dr M Gatei	The Role of RAD50 in protecting the genome
Sindi, Ikhlās	PhD	Professor G Byrne , Dr R Tannenberg, Dr P Dodd	Neuroligins and Neurexins in Alzheimer's disease
Tattersall, Timothy	PhD	Professor P Sah, Professor G Byrne , Dr F Windels	Neural mechanisms that underlie emotional memory formation and extinction
Tsao, Henry	MPhil	Associate Professor S Rose , Professor R Boyd	Unravelling the organisation and microstructure of sensorimotor brain networks in children with congenital hemiparesis
Van Hees, Sophia	PhD	Associate Professor D Copland , Dr A Angwin, Dr K McMahon, Associate Professor G Zubicaray	Brain mechanisms of language treatment post-stroke
Williams, Rebecca	PhD	Dr J Hocking, Professor D Reutens	The assessment of diffusion-weighted fMRI as a contrast for functional brain imaging

ENROLMENTS IN 2014

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE	START DATE
Britten, Fiona	MPhil	Professor L Callaway, Professor E Duncan	Breastfeeding in mothers with Type 2 diabetes	11.06.2014
Cook, Melissa	PhD	Dr A Hill, Dr A Rodriguez , Professor L Worrall	Aphasia LIFT OFF: investigating the feasibility of delivering an intensive comprehensive aphasia therapy program via telerehabilitation	03.02.2014
Dang, Thi Hai 'Tho'	PhD	Professor L Connelly, Dr D Rowell	Economic evaluation of the Deep Brain Stimulation (DBS) intervention on patients with Parkinson's disease	01.10.2014
Fielder, Matthew	MPhil	Dr H Subramanian	Deep brain stimulation in animal models	03.04.2014
Gbadeyan, Oyteunde	PhD	Associate Professor M Meinzer , Associate Professor K McMahon	Neural mechanisms underlying language and motor facilitation by conventional and high-definition transcranial direct current stimulation	01.10.2014
Giorni, Andrea	PhD	Professor P Silburn , Professor P Sah, Professor F Windels	Activity in thalamic nuclei in patients with movement disorder	01.07.2014
Gomez Arango, Luisa	PhD	Professor L Callaway, Dr M Dekker	The gut microbiome in pregnancy in response to probiotics	01.04.2014
Harris, Jessica	PhD	Professor E Duncan , Professor M Brown	Gene identification for endocrine tumours	14.07.2014
Harris, Patrick	PhD	Professor D Paterson	Defining an evidence based approach for the optimal management of Gram-negative infections in the era of emerging antimicrobial resistance	03.03.2014
Kanamori, Luis Furaya	PhD	Professor A Clements, Dr L W Yakob, Professor D Paterson , Professor T V Riley, Dr S McKenzie	Clostridium difficile: assessing the risks of emerging healthcare-related pathogen	22.01.2014
Kobayashi, Miharu	PhD	Dr C Salomon, Professor G Rice, Professor M Mitchell	Host – tumour cell interactions in the progression of ovarian cancer	01.07.2014
Kong, Annice	PhD	Professor P Colditz	The relationship between brain structure assessed using diffusion MRI and function assessed using dense array EEG of very preterm infants and the ability to predict neurodevelopmental outcomes	28.04.2014
Lal, Samir	MPhil	Dr P Simpson, Professor S Lakhani, Dr A Reed	Integrative genomic analysis of lobular breast carcinomas	02.05.2014
Lee, James	PhD	Associate Professor K Khosrohtehrani , Dr R Mazzeiri	Role of macrophages in skin cancer initiation after ultraviolet radiation	01.04.2014
Moonshi, Shehzahdi Shebbrin	PhD	Professor A Whittaker, Professor N Fisk, Associate Professor S Rose	Innovative approaches to tracking of stem cells in models of glioma	01.10.2014
Mosley, Philip	PhD	Professor M Breakspear, Professor W Hall, Dr A Carter	Impulsivity and caregiver burden after deep brain stimulation for Parkinson's disease	24.02.2014
Perceval, Garon	PhD	Associate Professor M Meinzer, Associate Professor D Copland	Long term effects of non invasive electrical brain stimulation on cognition and neuroplasticity in healthy ageing and mild cognitive impairment	01.05.2014
Van Eps, Julie	MPhil	Professor G Rice, Professor S Illanes, Professor M Mitchell , Professor M Choolani	The role of metabolic dysregulation in cancer	25.02.2014
Xu, Zhouwei	PhD	Professor P McCombe, Dr R Henderson	Biomarkers and predictors of survival in Motor Neurone Disease	01.10.2014

ONGOING STUDENTS

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE
Francis, Glenn	PhD	Associate Professor C Farah , Dr G Beadle	Protein expression and molecular profiling using tissue microarrays to predict lymph node status in breast cancer
Gildea, Jan	PhD	Professor P Hodges , Dr J Hides	The activation pattern of trunk and pelvic muscles during loading through the foot in dancers and non-dancers with and without low back pain
Hemsley, Gayle	PhD	Professor B Dodd, Dr A Holm	Language learning outcomes in early sequential bilinguals
Higgs, Crystal	PhD	Dr P Dodd, Dr R Tannenbergh, Professor G Byrne	The role of vesicular glutamate and GABA transporters in Alzheimer's disease
Jessri, Maryam	PhD	Associate Professor C Farah, Dr A Dalley	Cancerous and precancerous lesions of oral cavity and comparisons of their genetic profile in young and old patients: MMR genes
Kamolovit, Witchuda	PhD	Professor D Paterson, Dr H Sidjabat	Carbapenem resistance in commonly encountered Gram negative bacilli
Legrand, Julien	PhD	Associate Professor K Khosrohtehrani, Professor N Fisk , Dr A Brooks	Mesenchymal-Epidermal interactions in skin wound regeneration
McCarthy, Kate	PhD	Professor D Paterson	Pseudomonas aeruginosa bloodstream infections: Clinical and molecular epidemiology, antibiotic resistance mechanisms, treatment and outcome
Miller, Stephanie	PhD	Dr T Bjorkman , Associate Professor P Noakes	Examining the maturation of the GABA system in the neonatal brain and its role in hypoxic-ischaemic brain injury
Cloake, Nancy	PhD	Dr J Greer , Professor M Pender	The role of PLP in multiple sclerosis
Murphy, Jenifer	PhD	Professor G Byrne , Professor N Pachana	Treatment-resistant depression
Peiris, Hassendrini	PhD	Professor M Mitchell	The role of myostatin in the placenta
Rawlings, Alicia	PhD	Associate Professor D Copland , Associate Professor K McMahon	The modulation of adult new word learning by dopamine
Rogers, Benjamin	PhD	Professor D Paterson, Professor T Walsh, Dr H Sidjabat	Clinical, epidemiological and molecular characteristics of E.coli (Escherichia coli) infection and its antimicrobial resistance
Roxbury, Tracy	PhD	Associate Professor D Copland , Associate Professor K McMahon	Neurophysiological markers of language recovery in acute stroke
Stewart, Romal	PhD	Professor M Lavin , Dr S Kozlov	A cellular model to investigate the role of ATM in the nervous system
Van den Hoorn, Wolbert	PhD	Professor P Hodges , Professor J V Dieen, Professor G Kerr, Associate Professor F Hug	Mechanisms underlying the coordinated an dysfunction of muscles used for breathing and postural tasks
Vaska, Vikram	PhD	Professor D Paterson , Associate Professor G Nimmo	Clinical, health economic, epidemiologic and molecular epidemiologic and diagnostic aspects of staphylococcus aureus infections in Queensland
Williams, Julian	PhD	Professor J Lipman, Professor D Paterson	The sepsis registry: a prospective database to characterise and facilitate improved outcome for admitted patients with community acquired infection
Zowawi, Hosam	PhD	Professor D Paterson, Dr H Sidjabat	The prevalence of metallo-beta-lactamse producing enterobacteriaceae, Pareuginosa, Acinetobacter spp in tertiary and academic healthcare centres in Saudi Arabia
Momeny, Majid	PhD	Professor S Lakhani, Professor G Rice, Dr J Saunus , Dr G C Trench	Identification of the roles of HER-family receptors in breast cancer metastasis to brain
odebaee, Maryam	PhD	Professor P Colditz, Dr B Boashash, Dr S Vanhatalo, Dr G Azemi	Non-stationary signal processing methods for newborn seizure prediction
Harris, Lisa Jane	PhD	Professor M Mitchell, Professor L Callaway	Pre-eclampsia: The early detection of at-risk pregnancies, management and long term implications
MA, Norman	MPhil	Dr T Bjorkman, Professor P Colditz , Dr C Winter	Brain injury severity in a neonatal model of hypoxic ischemia following potential neuroprotective interventions
Sheikh, Nabeel	PhD	Dr S Finnigan , Dr A Wong, Dr S J Read	Role of quantitative EEG in diagnosis, prognostication and management of acute stroke
Sam, Sonia	PhD	Dr B Lingwood, Professor P Colditz	Cardiovascular factors associated with poor outcome in preterm infants
Sahama, Ishani	PhD	Associate Professor S Rose, Professor M Lavin	Investigating connectivity and neuroinflammation within corticomotor networks in ataxia-teleangiectasia: Improving our understanding of the clinical phenotype

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE
Iyer, Kartik	PhD	Professor M Breakspear, Dr S Vanhatalo, Dr S Finnigan	EEG signatures of recovery from post-natal hypoxia
Thomas, Georgia	PhD	Associate Professor D Copland , Associate Professor K McMahon, Ms E Finch	Presurgical mapping of language in patients with brain tumours
Stockill (Dignam), Jade	PhD	Associate Professor D Copland, Dr A Rodriguez	Investigating the effect of intensity of aphasia therapy on language outcomes in people with aphasia.
Tseng, Hsu-Wen	PhD	Dr G Thomas, Dr A Pettit , Professor M Brown	Novel treatment approaches to prevent joint fusion in ankylosing spondylitis
Raghavendra, Ashwini	PhD	Professor S Lakhani , Dr G C Trench, Dr J Saunus, Dr P Simpson	Studying mammary epithelial lineage differentiation and breast cancer predisposition using inducible pluripotent stem cell technology
Herd, Michael	PhD	Dr K Whittingham, Professor R Boyd, Professor P Colditz , Professor M Sanders	Efficacy of Prem Triple P as an intervention to support families of very preterm infants
Kutasovic, Jamie Rose	PhD	Dr P Simpson, Professor S Lakhani, Dr A Reed , Dr G C Trench	Investigating the role of E-cadherin in breast cancer development and progression to metastasis
Lazarus, Syndia	PhD	Professor E Duncan, Dr A Pettit , Dr A Zankl, Professor M A Brown	Gene mapping in skeletal dysplasias
Mcrae, Prudence	MPhil	Dr A Mudge, Professor P Walker , Dr N Peel	Identifying interdisciplinary care needs in older surgical patients
Yeates, Sarah	PhD	Associate Professor J Leach, Professor W Hall	Addiction neuroscience meets alcohol policy: emergent meaning in discoursed about alcohol, the brain and behaviour and their implications for ethical communication and evidence based policy for harm reduction
Scheck, Simon	PhD	Associate Professor S Rose , Professor R Boyd	Motor, Sensory and visual brain networks in children with unilateral Cerebral Palsy
Pateman, Kelsey	MPhil	Dr P Ford , Dr M Batstone	The treatment experience and support needs of oral cancer patients and their caregivers: quality of life implications and recommendations of multidisciplinary approaches to treatment
Wailan, Alexander	PhD	Dr H Sidjabat, Professor D Paterson	The Genetic Analysis of NDM harbouring plasmids in Gram-negative bacteria and an insight into their mechanism of acquisition and spread
Morphett, Kylie	PhD	Professor W Hall, Dr A Carter, Dr C Gartner	A disease of the brain: How do neurobiological explanations of addiction influence the attitudes and behaviours of smokers?
Layeghy, Siamak	PhD	Professor P Colditz, Professor B Boashash, Dr G Azemi	Fetal movement detection and classification
Schleiger, Emma	PhD	Dr S Finnigan , Dr A Wong, Dr S Read	Ameliorating functional deficits in neurological conditions via monitoring and targeting brain electrophysiological signals
Alruwaili, Ashwag	PhD	Professor P McCombe	The use of magnetic resonance imaging (MRI) to measure the rate of loss of upper motor neurons in amyotrophic sclerosis
Airey, Caroline	PhD	Professor P McCombe, Dr R Henderson	The CMAP scan in Motor Neuron Disease and Peripheral Neuropathy as a marker of early disease and disease progression
Yeo, Jie Abrey	PhD	Professor M Lavin, Dr O Becherel, Dr S Kozlov	The role of ATM in neurodegeneration and transcription regulation in the nervous system of animal models
Quek, Hazel	PhD	Dr T Roberts, Professor M Lavin , Dr J Hancock	Characterisation of novel pathways involved in the cellular responses to cytosolic DNA
George, Joanne	PhD	Professor R Boyd, Professor P Colditz, Associate Professor S Rose	Prediction of motor outcomes based on early brain structure
Dingwall, Steven	PhD	Professor M Lavin , Dr G Hill, Dr T Roberts , Associate Professor E Wolvetang	Generation of induced pluripotent stem cells from ataxia-telangiectasia patients
Evans, Tracey	PhD	Dr K Whittingham, Professor R Boyd, Professor P Colditz , Professor M Sanders	Improving mother and child attachment patterns following preterm birth: An RCT of Prem Triple-P
Baz, Betoul	PhD	Associate Professor K Khosrohtehrani, Professor G Rice, Dr J Patel	Sequencing based identification of skeletal dysplasia genes
Anchong, Naomi	PhD	Professor L Callaway, Professor E Duncan , Professor H McIntyre	Insulin requirements in pregnant women with type 1 diabetes mellitus during late pregnancy and the peripartum period

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE
Northwood, Korinne	PhD	Professor M Brown, Professor S Lakhani	Investigation of genetic and epigenetic regulation of non-coding RNAs in metastatic breast cancer
Marquess, John	PhD	Professor A Clements, Professor D Paterson , Professor T Riley, Dr L W Yakob	A longitudinal molecular epidemiological study to investigate changes in prevalence of asymptomatic Clostridium difficile carriage in hospital patients over three years
Erskine, Holly	PhD	Associate Professor J Scott , Professor H Whiteford	The epidemiology of conduct disorder and implications for interventions
Mills, Natalie	PhD	Professor N Wray, Dr M Wright, Associate Professor J Scott, Professor G Byrne , Professor N Martin	The role of cytokines in depression and cognition in adolescents
Johannes Kerbler, Georg Martin	PhD	Associate Professor E Coulson, Associate Professor S Rose	Regulation for p75-mediated neurodegeneration in the cholinergic basal forebrain
Brandenburg, Caitlin	PhD	Professor L Worrall, Associate Professor D Copland, Dr A Rodriguez	Development and evaluation of the communicative fitness approach to aphasia intervention
Babbitt, Edna	PhD	Professor L Worrall, Professor L Cherney, Associate Professor D Copland	Investigations into Intensive Comprehensive Aphasia Programs (ICAPs)
Vu, An	MPhil	Associate Professor C Farah, Dr Marie Matias	Identafi: a retrospective diagnostic criteria
Sardesai, Varda	MPhil	Dr R Pelekanos, Professor N Fisk	Comparison of the differentiation potential of primary and pluripotent stem cell-derived mesenchymal stem cells in vitro and in vivo
Caesar, Rebecca	PhD	Professor R Boyd, Professor P Colditz	Early predictors for neurodevelopmental outcome and prioritisation of service delivery for at risk premature infants
Lee, Kevin	PhD	Professor C Chen, Dr Steyn, Dr S Ngo	Metabolic and neuroendocrine profile of amyotrophic lateral sclerosis mouse models
Bergin, Michael	PhD	Dr K Tucker, Professor G Vicenzino, Professor P Hodges	How does the human motor control system adapt to pain?
Abbey, Karen	PhD	Professor S Capra , Dr O Right	Better practice in food and nutrition services: menu planning and design to deliver optimal nutrition to residential aged care
Bell, Jack	PhD	Associate Professor J Bauer, Professor S Capra	Identifying and overcoming barriers to the appropriate nutritional support of hip fracture patients
Hale, Kelli	PhD	Professor S Capra , Associate Professor J Bauer	Novel dietetic interventions: can they deliver better outcomes when compared to conventional approaches in community-dwelling adults
Barrett, Helen	PhD	Professor L Callaway, Dr M Dekker , Professor H McIntyre	Maternal lipids in pregnancy
Johnson, Stephanie	PhD	Professor E Duncan , Dr M Harris, Dr L Conwell, Professor D Venter	Evaluating the efficacy of next generation DNA sequencing in the diagnosis of disorders of beta cell function
Matusiak, Kristine	PhD	Professor L Callaway, Dr M Dekker	Periconception weight loss: what are the effects on the HPA axis in the infant?
Sarker, Suchismita	MPhil	Dr C Salomon, Professor G Rice, Professor M Mitchell	Predicting preterm labour to prevent perinatal mortality and morbidity
Economou, Caleb	PhD	Professor J Roberts, Dr B Richards, Professor J Lipman	The pharmacokinetics of vancomycin, meropenem and ticarcillin in critically ill patients undergoing prolonged intermittent renal replacement therapy
Rowe, Casey	PhD	Associate Professor K Khosrohtehrani , Dr N Hayward	Prognostic factors in early stage invasive melanoma
Thomas, Hannah	PhD	Associate Professor J Scott , Associate Professor J Connor	Beyond the classroom and into the cyber world, next generation research into adolescent bullying
Awal, Abdul	PhD	Professor P Colditz, Professor B Boashash	Classification and localization of neonatal EEG abnormalities using time-frequency image processing based neural network and support vector machine
Klyne, David	PhD	Professor P Hodges , Professor M Barbe	Biological factors predictive of low back pain outcome
Devine, Mathhew	MPhil	Dr R Henderson, Professor P McCombe	Limb Dominance and cortical features of Amyotrophic Lateral Sclerosis (ALS)
Green, Benjamin Paul	MPhil	Professor S Lakhani, Dr P Simpson	Prospective study of patients with breast tumours and discovery of potential biomarkers and therapeutic options

STUDENT	DEGREE	SUPERVISORS	PROJECT TITLE
Pagnozzi, Alex	PhD	Associate Professor S Rose , Professor A Bradley, Dr N Dawson	Automatic construction of normal and abnormal tissue models from mined datasets for delineation of abnormalities
Etudaye Ajayi, Itopa	PhD	Professor P Mills, Dr H Subramanian , Associate Professor M Bellingham	Magnetic resonance neuroimaging of the brain of some domestic animal species
Aideen McInerney, Leo	PhD	Professor E Duncan , Associate Professor B Meiser, Professor M Brown	Exome-sequencing for gene discovery and gentic testing in Menddelian disorders
Wall, Kylie Janine	PhD	Associate Professor D Copland , Dr T Cumming	Prognostic factors of fMRI in recovery of cognition and language post-stroke
McKirdy, Natalie Charnise	PhD	Dr N Barnett , Dr D Harkin, Professor T Chirila	Characterisation of inflammatory pathways associated with preterm birth
Jensen, Charmaine	PhD	Professor W Hall, Dr B Partridge, Professor J Lucke	Non-medical use of prescription stimulants by Australian University students: Attitudes, prevalence of use and motivation
Isaacs, Megan	PhD	Associate Professor D Copland , Dr A Angwin, Associate Professor K McMahon	Control of language production and it's neural substrates
Banney, Rebecca	PhD	Dr W Arnott, Associate Professor J Scott, Associate Professor D Copland , Associate Professor K McMahon	Narrative assessment and the autism diagnostic observation schedule (ADOS)
Lai, Melissa	MPhil	Professor P Colditz	Environmental manipulation of the very preterm infant: Can dense array EEG detect developmental differences at term equivalent age
Liu, Chao	PhD	Professor M Ragan, Dr K A L Cao, Dr P Simpson , Professor K Khanna	A systems biology approach to defining therapeutic targets in breast cancer
Bell, Christopher	MPhil	Associate Professor S Rose , Professor A Bradley, Dr N Dawson	Molecular imaging: new technologies for patient care
Odenthal, Cara	MPhil	Professor A Coulthard, Professor L Callaway, Associate Professor S Rose	Can MRI at 3 and 5 years after first demyelinating event detect reduction in brain volume in patients who progress to clinically definite MS compared to those who do not?
Reid, Lee Bremmer	PhD	Associate Professor S Rose , Professor R Boyd, Associate Professor R Cunningham	Measuring neuroplasticity in children with acquired brain injury using diffusion and functional MRI
Roberts, Matthew	PhD	Professor F Gardiner , Dr H Schirra	Putative biomarkers for early detection of Prostate Cancer
Byrom, Lisa	MPhil	Associate Professor K Khosrohtehrani , Professor A Green	Influence of pregnancy on prognosis of melanoma
Forbes, Elizabeth	MPhil	Dr B Lingwood	Changes in cardiac structure and biochemistry during transition to extra uterine life in preterm and term piglets
Al-Theyab, Nada	PhD	Dr B Lingwood, Professor P Colditz, Associate Professor T Donovan	Determination of Vitamin D status and intake of adolescent school girls in central region, Saudi Arabia
Huang, Jhih-Ting	PhD	Dr A Angwin, Associate Professor D Copland	Effects of repetitive transcranial magnetic stimulationand respiratory exercise therapy on voice and speech in patients with parkinson's disease
John, Keziah	MPhil	Associate Professor C Farah, Mr A Dalley	Distinction of miRNA expression in human papillomavirus-infected and non-infected oral premalignant lesions and squamous cell carcinomas
Webster, John	MPhil	Associate Professor C Farah, Dr M Matias	Opportunistic oral cancer screening in Australia: investigating knowledge, attitudes and behaviour of general medical practitioners and medical students
Aldridge, Danielle	PhD	Professor D Theodoros, Dr A Angwin, Mr A Vogel	The impact of deep brain stimulation and speech treatment on communication in Parkinson's Disease
Fay, Michael	PhD	Associate Professor S Rose , Professor S Crozier	Incorporating advanced imaging into the treatment of brain tumours

APPENDIX SEVEN CLINICAL TRIALS 2014

UQCCR is actively involved in Investigator driven clinical research. In 2014 we hosted:

CLINICAL TRIAL	CHIEF INVESTIGATOR/S
<p>“Dopaminergic modulation of adult new word learning: A functional imaging investigation”</p> <p>This study aims to investigate the role of the neurotransmitter dopamine in new word learning and language processing in adults. Levodopa, a dopamine precursor, is administered to healthy individuals prior to language learning sessions, in a double-blind, placebo-controlled study design. Neural correlates of new word learning modulated by dopamine are investigated using behavioural methods, functional MRI and event-related EEG.</p> <p>The language Neuroscience Laboratory conducts studies that investiagate language processing in healthy populations and treatment and recovery from language disorders.</p> <p>The targeted patient groups are stroke, Parkinson's disease, dementia, autism and brain injury patients.</p> <p>Techniques used include behavioural and psycholinguistic tasks, functional MRI and EEG. The team are looking at development and evaluation of new models of diagnosis and treatment for these patient groups.</p>	Associate Professor David Copland, Alicia Rawlings, Jeffrey Mahoney, Dr Anna MacDonald, Dr Katie McMahon and Professor Peter Silburn
<p>“Learning and language processing in people with Parkinson's disease”</p> <p>This project investigates the neural basis for language deficits in Parkinson's disease using brain imaging (fMRI)</p>	Associate Professor David Copland, Dr Nadeeka Dissanayaka, Peter Bell, Professor Peter Silburn, Dr Katie McMahon, Professor Helen Chenery, Dr Anthony Angwin
<p>“Cognitive sequelae in Parkinson's disease: Identifying the neural substrates”</p> <p>This study aims to identify the neural substrates of cognitive-linguistic impairments in Parkinson's disease by utilizing EEG.</p>	Dr Anthony Angwin, Associate Professor David Copland, Dr Katie McMahon, Dr Nadeeka Dissanayaka, Professor Peter Silburn.
<p>“Striatal dopamine function in human cognition: Insights from language, learning and reward in Parkinson's disease and pharmacological challenge”</p> <p>This study investigates the learning and language processing in Parkinson's disease patients who have had deep brain stimulation (DBS) functional neurosurgical treatment</p>	Dr Anthony Angwin, Professor Peter Silburn, Associate Professor David Copland, Dr Nadeeka Dissanayaka
<p>“Improving diagnostic methods of anxiety and depression in Parkinson's disease”</p> <p>This study aims to define the phenotype of anxiety and depression in Parkinson's disease. It also Investigates early markers for anxiety in Parkinson's disease using psycholinguistic (affective priming) paradigms and imaging (electroencephalography, EEG).</p>	Dr Nadeeka Dissanayaka, Associate Professor David Copland, Professor Peter Silburn, Associate Professor John O'Sullivan, Professor Gerard Byrne, Dr Rodney Marsh, Associate Professor George Mellick, Elizabeth Torbey (Doctorate in Clinical and Clinical Neuropsychology student), Elizabeth White (vacation scholar, MBBS student), Ricky Nells (vacation scholar, MBBS student), Tiffany Au (research assistant).
<p>“Emotional inhibition in Parkinson's disease”</p> <p>This projects aims to identify emotional inhibition in Parkinson's disease patients with and without affective disturbances using psychological paradigms coupled with EEG.</p>	Dr Nadeeka Dissanayaka, Associate Professor David Copland, Dr Anthony Angwin, David Hennessy (Doctorate in Clinical Psychology student), Associate Professor John O'Sullivan, Professor Peter Silburn
<p>“Perspectives and experiences of Parkinson's disease patients with drug induced impulse control disorders and dopamine dysregulation syndrome”</p> <p>This qualitative study aims to identify the phenomenology of DRT-induced impulse control disorders, patients’ understanding of their condition and their ability to control their behaviours, and patients’ moral identity and beliefs about their personal responsibility.</p>	Dr Adrian Carter, Dr Nadeeka Dissanayaka, Professor Wayne Hall, Associate Professor John O’Sullivan, Dr Rodney Marsh, Peter Bell (research assistant).
<p>“Cognitive behavioral therapy to treat anxiety and depression in Parkinson's disease”</p> <p>This project aims to design and implement cognitive behavioral therapy for Parkinson's disease patients.</p>	Professor Nancy Pachana, Dr Nadeeka Dissanayaka, Dr Leander Mitchell, Professor Gerard Byrne, Professor Peter Silburn, Associate Professor John O’Sullivan, Dr Rodney Marsh, Professor Sergio Starkstein, Associate Professor Romulo Bucks, Dr Ken Laidlaw, Dr Sarah Egan.
<p>“Mindfulness for Parkinson's disease”</p> <p>This project investigates the benefits of mindfulness group therapy to alleviate depression, anxiety, cognitive dysfunction and parkinsonism symptoms in Parkinson's disease.</p>	Dr Nadeeka Dissanayaka, Dr Paul Harnett, Professor Nancy Pachana, Farah Idu Jion, Associate Professor John O’Sullivan, Professor Peter Silburn, Dr Rodney Marsh, Professor Gerard Byrne, Associate Professor George Mellick.

CLINICAL TRIAL	CHIEF INVESTIGATOR/S
<p>“Randomised Study of Robotic and Open Prostatectomy”</p> <p>The purpose of this study is to evaluate these procedures in terms of clinical and oncological parameters, psychosocial aspects and costs to both individuals and the health system.</p> <p>“A Double Blind, Placebo–controlled study to evaluate New or Worsening Lens Opacifications in subjects with non-metastatic Cancer Receiving Demosumab for bone loss due to Androgen-Deprivation Therapy”</p> <p>“A Multinational Phase 3, Randomised, Double-Blind, Placebo-controlled efficacy and safety study of oral MDV3100 in Chemotherapy”</p> <p>Naive Patients with Progressive Metastatic Prostate Cancer who have failed Androgen Deprivation therapy.</p> <p>“Early Detection Study: Developing a non-invasive test for Prostate Cancer detection”</p> <p>Researchers have employed PCR, ELISA, MALDI-TOF and metabonomic spectroscopy to discriminate cancer from non-cancer.</p> <p>“A prospective study of sexual function in sexually active men treated for BPH”</p>	<p>Professor Robert ‘Frank’ Gardiner (Principle Investigator).</p> <p>Dr Geoff Coughlin (sub-investigator), Dr John Yaxley (sub-investigator).</p> <p>Dr Alison Hadley (Med Oncologist Sub-investigator)</p> <p>Professor Robert ‘Frank’ Gardiner (Principle Investigator)</p> <p>Professor Robert ‘Frank’ Gardiner (Principle Investigator)</p>
Early intervention centred on infant massage performed by the mother in preterm infants: effects on neurodevelopment at the clinical, electrophysiological and neuroradiological level.	Professor Paul Colditz, Dr Simon Finnigan, Associate Professor Stephen Rose, Dr Andrea Guzzetta, Dr M Giulia D’Acunto, Naoni Ngenda, Sonia Sam, Dr Koa Whittingham, Janine Oostenbroek and Penny Love
Early intervention centred on infant massage performed by the mother in preterm infants: effects on neurodevelopment at the clinical, electrophysiological and neuroradiological level.	Professor Paul Colditz, Dr Simon Finnigan, Associate Professor Stephen Rose, Dr Andrea Guzzetta, Dr M Giulia D’Acunto, Naoni Ngenda, Sonia Sam, Dr Koa Whittingham, Janine Oostenbroek and Penny Love
NEST: A study of the impact of treating electrographic seizures in term or near-term infants with neonatal encephalopathy.	Hunt, R. Colditz, P.B. Inder, T. Badawi, N. Simmer, K. Liley, H. Osborn, D. Cheong, J. Wright, I.
PPREMO: Prediction of preterm early motor and neurodevelopmental outcomes using advanced brain imaging and an early assessment toolbox.	Professor Roslyn Boyd, Professor Paul Colditz, George J, Associate Professor Stephen Rose.
Prem Triple P Parenting Study: Enhanced parenting capacity to improve developmental outcomes in preterm infants.	Professor Paul Colditz, Professor Matthew Sanders, Professor Roslyn Boyd, Dr Margo Pritchard, Dr Peter Gray, Associate Professor Michael O’Callaghan, Dr Virginia Slaughter, Dr Koa Whittingham.
<p>“Anti-N-Methyl-D-Aspartate Receptor Encephalitis: an Australian case series examining patterns and predictors of cognitive outcomes”</p> <p>This study aims to investigate the course of recovery from a recently described autoimmune neurological disorder: anti-N-methyl-D-aspartate receptor encephalitis. We are seeking to describe the quality of life, pattern of cognitive performance and outcome predictors associated with recovery from this disorder.</p>	Associate Professor James Scott, Ms Gemma McKeon, Dr Donna Spooner, Dr Gail Robinson, Dr Melissa Connell, Dr Stefan Blum, Dr David Gillis, Mr Alex Ryan.
Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, 12-Month Trial of Leucomethylthioninium bis (hydromethanesulfonate) in subjects with mild to moderate Alzheimer’s disease	Professor Gerard Byrne, Dr Vicki Naumann, Dr Kana Appadurai, Ms Liz Arnold and Ms Lyn Isabel.
Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, 18-Month Safety and Efficacy Study of Leucomethylthioninium bis(hydromethanesulfonate) in subjects with mild Alzheimer’s disease	Professor Gerard Byrne, Dr Kana Appadurai, Ms Liz Arnold and Ms Lyn Isabel.
Quantitative Electroencephalography in Stroke (QUEST): The Role of Quantitative EEG in diagnosis, prognostication and management of Acute Stroke	Dr Simon Finnigan, Dr Andrew Wong, Dr Stephen Read, Dr Nabeel Sheikh, Ms Emma Schleiger, Ms Tennille Rowland
Australian Placental Transfusion Study: Should very preterm babies receive a placental transfusion at birth? A randomised controlled trial.	Professor William Tarnow-Mordi, Professor Nick Evans, Professor John Newnham, Associate Professor David Osborn, Professor David Isaacs, Professor Karen Simmer, Professor Jonathan Morris, Dr Wendy Hague, Ms Peta Forder, Professor Lelia Duley, Professor Neil Marlow, Associate Professor Martin Kluckow, Professor Kei Lui, Associate Professor Graham Reynolds, Professor John Simes, Ms Adrienne Kirby, Dr Arvind Seghal, Dr Phil Weston, Dr Jo Gullam, Dr Margo Pritchard, Dr Lucille Sebastian
High Flow Nasal Cannulae as Primary Support in the Treatment of Early Respiratory Distress (The HIPSTER Trial), ANZCTR TRIAL ID: ACTRN12613000303741,	C. Roberts, Associate Professor David Cartwright, C. Collins, P. Davis, S. Donath, D Helge Frøisland, A Malhotra, Dr Brett Manley, L. Owen, Dr Margo Pritchard

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