Health check

Griffith Health newsletter

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Griffith Health vision

Promoting Health, Enabling Communities
Griffith Health will, through leadership and innovation in teaching, research and community engagement, create sustained improvements in all aspects of health and health care for the local, national and international communities.

Nursing education expands overseas

Griffith University and the Abu Dhabi Education Council (ADEC) have signed an agreement to provide nurse education in the United Arab Emirate’s largest state.

The agreement, in keeping with Griffith’s commitment to internationalisation of its programs, represents another major offshore initiative for the School of Nursing and Midwifery.

It builds on Griffith’s expertise in delivering offshore nursing education through partnerships such as the Nissoken program in Japan and the Cornerstone program in Singapore.

Griffith’s Pro Vice Chancellor (Health) Professor Allan Cripps welcomed the opportunity for the University to contribute to developing the Emirate’s future health workforce.

“Given the worldwide shortage of health professionals, especially nurses, Griffith is pleased to be partnering with the Abu Dhabi Education Council. Our role will be in training and mentoring local staff – increasing their capacity to deliver culturally-appropriate and high-quality nurse education,” Professor Cripps said.

Led by Griffith’s Professor Judy Wollin, now based at the Shaikha Fatima College of Health Sciences, the agreement provides for an initial intake of 89 nursing students.

While the current agreement provides for a number of pathways to the Bachelor of Nursing (including post-registration and re-entry programs), there is also potential for future development of postgraduate programs and nursing research.

Professor Cripps said the collaboration also offered the possibility of Griffith’s domestic health students experiencing a clinical placement in the Emirate.

“Exposure to the world-class facilities on offer in Abu Dhabi and an international health workforce will significantly enhance the learning experience of our students.”

Pro Vice Chancellor (Health) Professor Allan Cripps and Director General of the Abu Dhabi Education Council His Excellency Mubarak Sayeed Al Shamisi at the official signing.
The year ahead

2008 promises to be an exciting and eventful year for the Health Group in a range of areas.

Researchers in the Health Group have submitted a record number of NHMRC grant applications in the latest funding round, which comes on top of considerable success in this area in 2007. The Group is also building on its research capacity with the implementation of the Griffith Institute of Health and Medical Research headed by Professor Lyn Griffiths. The activities and resources of former research centres in the Group are being consolidated under five core programs of research, including Molecular Basis of Disease, Heart Foundation, Behavioural Basis of Health, Clinical & Community Practice Innovation and Population Health. The Institute will enable the Group to take a more strategic approach to building critical mass in research.

In learning and teaching the Health Group continues to demonstrate its capacity for innovation and excellence. New programs have commenced in public health, community rehabilitation and social work, to be followed in 2009 with innovative postgraduate offerings in sports coaching, mental health practice and physiotherapy.

On top of Associate Professor Keithia Wilson’s fantastic achievement in winning the Prime Minister’s University Teacher of the Year Award, the Group demonstrated considerable success in the University learning and teaching grant scheme by winning nearly $250,000 in grants, including $148,000 to examine the application of Peer Assisted Study Sessions in courses with high failure rates and $50,000 to test a ‘Just In Time Intervention’ to support the academic efficacy of at-risk first year students. These grants demonstrate the Group’s strong commitment to assisting all students to succeed in their degree programs.

Professor Nick Buys, Dean, Learning & Teaching (Health).

Families under the influence

Clinical psychologists at Griffith have made a significant contribution to the national debate on the impact of alcohol and drug abuse in families.

Dr Sally Frye, director of the Mt Gravatt Psychology Clinic, was lead author on a recent report Supporting the families of young people with problematic drug use: investigating support options.

Coinciding with Prime Minister Kevin Rudd’s announcement of a new National Binge Drinking Strategy, the report highlighted recent survey figures that found ten per cent of teenagers were drinking at harmful levels.

“While it was not a surprise that the incidence of binge drinking is high, what was of greater concern was the impact of this behaviour on families,” Dr Frye said.

Dr Frye said families of young people with drug and alcohol problems often experience a range of intense pressures that can impact significantly on the physical and emotional health of family members as well as severely disrupting family relationships.

However most drug and alcohol services were only resourced to provide treatment for the affected individual rather than generic support for parents and siblings.

“The needs of families have been significantly underestimated and yet are important in their own right. We need a continuum of services for different circumstances such as the parent who might need some basic information and contacts numbers to those who need ongoing counselling for themselves and advice on how to help their children into treatment.”

The report, commissioned by the Australian National Council on Drugs (ANCD), also highlighted the use of illicit drugs in young people - reporting that one in seven teenagers have used cannabis in the last 12 months and one in 25 have used amphetamines.

Other contributors to the report included Griffith’s Professor Sharon Dawe, Dr Sascha Kowalenko and Ms Moana Harlen, and the University of Queensland’s Dr Paul Harnett.

Professor Dawe and Dr Frye also co-authored last year’s ANCD report Drug use in the family: impacts and implications for children and Professor Dawe was an expert witness at the Federal Government’s 2007 inquiry into the impact of illicit drugs on families.

Drug use in the family estimated that 13 per cent of Australian children live in households where there is alcohol misuse or substance dependence.

They also found that substance misuse cannot be adequately managed independently of other problems in the family such as mental illness and social disadvantage.

Dr Frye said the contributing to these reports was a wonderful opportunity for the researchers to make an impact in the broader community.

“This work gets the ideas out of our offices, and by raising awareness and stimulating debate, has the potential to influence government policy,” she said.
Answers from the Amazon

New research from the Heart Foundation Research Program is expanding our understanding of the ways in which some vertebrates can successfully protect vital organs such as the heart and brain when oxygen levels drop to critical levels.

Associate Professor Gillian Renshaw and her team have already demonstrated that one early ancestral vertebrate, the Epaulette Shark has the rare ability to reprogram its metabolism to cope with low oxygen levels during nocturnal tides on coral reefs.

Now the work has been reproduced in the fresh water Amazonian armoured catfish – a more sophisticated animal model.

Associate Professor Renshaw told the Gold Coast Health and Medical Research Conference that the catfish are seasonally exposed to hypoxia otherwise known as low oxygen.

“During the rainy season the Amazon River can be 40 metres deep and 40 kilometres wide. Decomposition of inundated plant material causes extremely low oxygen in these ‘black water’ systems, yet these species can survive.”

“Their tolerance of hypoxia could be of benefit to humans in extreme environments such as high altitude or in clinical situations such as birth trauma, heart attack or stroke.”

The research, in conjunction with the National Institute for Amazon Research, tested the animals’ physiological responses before, during and after exposure to low oxygen conditions.

They found the ventilation rate decreased immediately in hypoxic conditions and returned to normal with re-oxygenation.

“Key metabolic enzymes such as lactate dehydrogenase (LDH) and glutathione S-transferase (GST) also responded to protect vital tissues from damage.”

“There was a shift to isoforms of LDH which operate better in low oxygen conditions while increased GST levels provide more resistance to oxidative stress.”

Associate Professor Renshaw said results show that the fish adapt by a rapid but reversible onset of energy-conserving ventilatory and metabolic depression.

The challenge now is to convert this knowledge into strategies for managing hypoxia related injuries and disease.

‘Toy’ becomes a diagnostic tool

It looks like a child’s toy but the Tower of London test – moving four coloured disks across three different sized pegs – is proving useful as a test of brain function.

Dr Mark Chappell, from the School of Psychology, said the frontal lobes of the brain were responsible for the higher executive functions that distinguish humans from animals.

Presenting at the Gold Coast Health and Medical Research Conference, he said people with damage to the frontal regions often show impaired performance on executive function tasks.

“The left frontal lobe in particular is very important for sequencing and planning. This test appears to be useful in detecting damage to this part of the brain.”

The study compared the responses of healthy individuals and stroke patients to a number of tasks of varying difficulty, each of which entailed moving the discs one at a time to reach prescribed goal-states.

On Tower of London tasks with a low difficulty level, individuals with left frontal damage performed comparably to healthy individuals and those with damage to other brain regions. However on problems of moderate and high difficulty, they performed particularly poorly compared to the other groups.

Dr Chappell said the test could complement magnetic resonance imaging (MRI) which was commonly used to assess physical brain damage, and functional MRI which measures brain activity while a cognitive task is being performed.

“Functional MRI shows which parts of the brain are busy while we are doing a task but cannot indicate what is actually happening. The revised Tower of London test is designed to isolate cognitive processes of specific complexities, and would be useful as part of a battery of tests run by a neuropsychologists to diagnose the likely level of disability.”

The Australian Research Council (ARC) funded study also involved Griffith’s Professor Graeme Halford, Professor David Shum, Dr Glenda Andrews, Annick Maujean and Jenny Tunstall, as well as Dr Damian Birney of the University of Sydney.
Cancer researcher returns to Griffith

Four years in the rarefied research environment of the Cold Spring Harbor Laboratory has provided Dr Albert Mellick with some personal and professional high points.

The prestigious New York research facility is home to seven Nobel Prize winners including Dr James Watson, one of the co-describers of the double helix structure of DNA.

While the opportunity to enjoy the company of such influential scientists was a rare privilege, Dr Mellick also co-authored a career-defining publication in the international journal Science.

Now back home on the Gold Coast at Griffith’s School of Medical Science where he earned his PhD in 2003, Dr Mellick is keen to capitalise on the momentum generated through his post-doctoral fellowship.

“There is the opportunity to develop my own group here at Griffith and establish a degree of independence. It’s a young campus and a young Institute where I can be useful, work with good people, and help solve difficult and important problems.”

The Science article research furthers understanding of the role of bone marrow cells in the spread, or metastatic progression, of solid tumours such as lung and breast cancer.

“There has been some controversy about the role of bone-marrow derived cells known as endothelial progenitor cells (EPC). Although they are not found in great numbers, we have found they are very important in the development of blood vessels that support tumour growth,” he said.

The research team Dr Mellick worked with found that EPCs regulate a process known as the angiogenic switch - rapid blood vessel growth that enables dormant micrometastases from a primary tumour to develop into life-threatening macrometastases.

They also found they could suppress EPC activity and prevent the angiogenic switch by using gene therapy to knock out a critical transcription factor.

“The therapy did not affect micrometastases but resulted in fewer macrometastases and increased survival in the treated animals,” he said.

Given that many tumours have already metastasised by the time the primary tumour is diagnosed, the potential exists to target EPCs with specific therapies and help prevent further progression of the disease.

Dr Mellick plans to continue his cancer research and is particularly interested in the role of small non-coding RNAs in tumour vasculature, the body’s inflammatory response to tumours, and the enzymes or proteases which breakdown the tissue around tumours.

“Understanding the fundamental biology of tumours is important but some of the techniques we use also have applications for other conditions including heart and bone disease.”

Dr Mellick is the first research fellow funded through the Griffith Medical Research College, a collaboration between Griffith and the Queensland Institute of Medical Research.

Life award for dental school ‘ideas’ man

Dental technicians and prosthetists are the often invisible hands behind our smiles – creating orthodontic appliances to straighten teeth, mouthguards to protect them, or dentures and implants to repair and replace them.

It’s not a high-profile job but it’s an important one, and Griffith’s John Mackay has contributed more to the development of the profession than most.

Now his decades of dedication to his profession have been recognised with a Life Membership Award for distinguished service by the Australian Dental Prosthetists Association (Queensland).

Professor Max Standage, Provost of Griffith’s Gold Coast campus, said John was instrumental in establishing Griffith’s School of Dentistry and Oral Health which opened in 2004.

“John first approached the University in the early 90’s with his vision of providing a tertiary level training program for prosthetists, as there was nothing of its kind available in Queensland.”

Championed by Professor Standage and former Dean of the Faculty of Health Sciences Professor Roger Willis, the project gradually developed into something much bigger and bolder.

“The thinking started to develop that we could offer undergraduate training in dental technology and postgraduate training in prosthetics within the context of comprehensive dental school. John was the catalyst and played a seminal role in its establishment,” Professor Standage said.

Before his involvement with Griffith, John ran his own dental technology laboratory in Southport for almost 30 years from 1971 to 2000. The lab was the first on the Gold Coast to do ceramic work – the newest technology at the time for dental appliances such as crowns and bridges.

These days dental technicians are as likely to be using...
Health promoting schools

A World Health Organization (WHO) delegation from 15 Pacific Island countries has visited several West Moreton schools to witness first hand their health promotion achievements and appreciate each school’s journey in addressing the health and well-being of their school community.

The school visits, coordinated by Griffith’s School of Public Health in conjunction with Queensland Health’s West Moreton Population Health Unit and the education sector, showcased how the WHO health promoting school approach has been applied in Australian schools.

Professor Don Stewart, Head of the School of Public Health, said the health promoting schools model is based on an internationally recognised WHO best practice framework to promote the health of the community.

“With growing recognition that education influences health, and health influences education, the World Health Organization views the school as an extraordinarily effective setting in which to improve people’s health,” he said.

“Schools provide the most effective and efficient way to reach large proportions of the population, including young people, school personnel, families and community members. Promoting health through schools enhances both health and the capacity of students to learn.”

“Schooling has been shown to be a powerful way to influence health both within and outside the school. This linkage has profound implications for prevention and control of chronic diseases such as cardiovascular disease and type 2 diabetes,” Professor Stewart said.

Professor Don Stewart said the delegation was particularly interested in how schools have promoted nutrition and physical activity, especially where there are large numbers of students of Pacific Islander background.

“What is particularly striking is how the participants have used their West Moreton school visits as exemplars and models, both for what they intend to do on their return and how they plan to monitor and evaluate it.”

“Over coming months, we’re establishing a Pacific Health Promoting School Network involving all 15 countries and I would envisage the mentoring and links with the West Moreton schools to continue over the next few years,” he said.

The international delegation was comprised of senior officers from the WHO Secretariat and the Ministries of Health and Education in the Cook Islands, Fiji, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu, Kiribati, Republic of Marshall Islands, Federated States of Micronesia, Republic of Nauru, Niue and Republic of Palau.

Dial-up tools for self help

User-friendly information technology tools are playing their part in a study of self-management strategies for people with cystic fibrosis.

Dr Melanie Jessup, from the Clinical and Community Practice Innovation Research Program, said improved survival with cystic fibrosis had created a need for new models of care.

“Adolescents need increased support with adherence to treatment during their transition to adulthood, while the growing adult population with cystic fibrosis also need the skills to self-manage a chronic disease.”

The study, conducted in 12 to 45-year-olds across sites in Tasmania and Queensland, features a phone mentoring intervention by specifically trained health professional to improve patient self-efficacy.

Part of the intervention offers a smart phone or interactive webpage so that patients can monitor symptoms such as cough, sputum and quality of life.

“Early indications are that self-management will be improved in both active arms of the trial.”

Computer aided design, laser welding and materials such as titanium to create solutions for serious oral health problems.

Faced with continually needing to recruit his own technical staff and driven to improve the standards of training within the industry, John has been active in the Australian Dental Prosthetists Association (Queensland) since its inception.

He also served on the State Health Minister’s advisory committee to establish the Dental Technicians and Dental Prosthetists Registration Board in the late 1980’s and is currently chairperson of the Board.

Now a senior lecturer in prosthetics in the dental school he helped create, John is still seeing patients and helping train the future dental technology workforce.

Griffith students enjoy the practical advantage of training in shared facilities with a commercial dental laboratory – a concept developed by John to give students the experience of actual dental laboratory practice.

His technical skills and knowledge also ensure the dental laboratory and clinic are equipped with state-of-the-art instrumentation and materials.

Healthy habits learned in school food garden
A teacher at heart

Lipid specialist Professor Ian Hamilton-Craig has joined the School of Medicine as Professor of Preventive Cardiology and Internal Medicine, and Academic Lead at the Gold Coast Hospital.

As well as his direct teaching role with third year medical students, Professor Hamilton-Craig will also work with clinical teachers to enhance the academic experience of students.

Originally from Adelaide, Professor Hamilton-Craig has combined his clinical career with teaching medical students at the University of Adelaide, Flinders University and more recently, Bond University.

He enjoys and encourages the ‘fresh approach and innovative thinking’ of doctors-in-training and supports Griffith’s problem based learning environment that is so different from his own medical school days.

“My undergraduate experience was all lectures and crowded ward rounds with limited opportunities for discussion. I want our medical students to be creative thinkers, to look at information with a critical eye but not be cynical or sceptical.”

Professor Hamilton-Craig has a clinical and research interest in the area of familial hypercholesterolaemia – a condition that affects one in 500 Australians yet is under-diagnosed and often under-treated.

He authored the monograph Genetic High Cholesterol and Triglycerides: the Facts for the Australian Atherosclerosis Society and sees writing, whether for the medical profession or general public, as an extension of his teaching.

He has published five books for the general public over the last ten years - Cholesterol Control, Men’s Health, Bypass, The State of the Heart: Cholesterol & Triglyceride Control, and the new release Unclog Your Arteries.

Professor Hamilton-Craig will continue as director of the Preventive Cardiology and Lipid Clinic at the Gold Coast Hospital and his private practice in his specialty of preventive cardiology.

He is also currently involved in multi-centre clinical trials of cholesterol lowering drugs to regress atherosclerosis.

Physiotherapist to strengthen clinical research

Leanne Bisset’s physiotherapy career has taken her from a leprosy rehabilitation clinic in Thailand to preventing and managing injuries in elite athletes at the Sydney Olympics.

She has also worked in hospitals, in private practice, and as team physiotherapist to the Queensland Firebirds development team (the Firechicks), before coming to Griffith to help train physiotherapy students and pursue her research interests.

Now Ms Bisset’s career path has taken another turn with her appointment to a full-time research position shared between the University and the Royal Brisbane and Women’s Hospital.

New nursing careers for mother and daughter

When former school principal Mary Thomas moved to Queensland five years ago, she never imagined she’d be going back to university with her daughter to study nursing.

However Mary and her daughter, Merlin, have just finished their nursing degrees at Griffith and started their new careers together at the Princess Alexandra Hospital.

After moving to Queensland from Dehli, India, Mary used her extensive qualifications in education to work as a relief teacher around Brisbane and the Gold Coast.

But the self-confessed study fanatic said she wanted to do something new.

“I saw Merlin’s university application to study nursing and thought I would just see if I could get in, not thinking I’d even get a place in the course without a scientific background,” Mary said.

“When I got in, I realised there’s no age or education history barrier to becoming a nurse, so we spent the next three years studying together at Griffith,” she said.

“My happiest moments were when people said we were sisters!”

Merlin said that studying with her mother was “pretty challenging” at times, with the two regularly in competition for the best grades.

“We helped each other a lot though,” she said.

“We both love studying – I think it’s in our blood. I’ve been pretty blessed to study and now work at the same organisation as my mum.”

“We did our three-week practical at the Princess Alexandra Hospital and both of us decided we wanted to come back after graduation. Everyone was really encouraging and we knew we’d be given many opportunities to further our careers,” Merlin said.

Mary has joined the coronary care unit and Merlin will be working in the operating theatres. They both plan to continue their studies in the future, with Mary interested in completing a Masters and a PhD in cardiac nursing and Merlin wanting to get into medicine.

“I’ve always been fascinated by operations so I’m working in the operating theatres, hoping to specialise in surgery,” Merlin said.
Dental research collaborations strengthen with India

Dean of Dentistry and Oral Health Professor Newell Johnson and PhD candidate David Speicher were invited guests at the International Symposium on Research Priorities in Dental Science & Technology in Asia and Africa run in conjunction with the Indian Society of Dental Research and the International Association of Dental Research in Hyderabad, India last December.

While in India David observed World AIDS Day and established a research collaboration with HIV research laboratory and clinic, Nireekshana AIDS Care Education and Training. He conducted a medical camp and HIV/AIDS awareness program for about 200 truck drivers and gave a workshop on molecular laboratory techniques.

Professor Johnson also signed a memorandum of understanding for academic collaboration between the School of Dentistry and Oral Health and the Chennai Dental Research Foundation. Further collaborations were strengthened with both Ragas Dental College and YRG Centre for AIDS Research and Education. These collaborations and memorandum of understanding will play essential roles in David’s PhD project which examines the prevalence and transmission of human herpesvirus-8 (HHV-8) in both Australia and India.

HHV-8 plays a critical role in AIDS-associated lymphomas, Kaposi’s sarcoma, Multicentric Castleman’s Disease, and primary effusion lymphoma. Kaposi’s sarcoma has been a hallmark of HIV infection in the pre-antiretroviral therapy area, but is uncharacterised in the Indian population, which currently leads the world in the numbers of people infected with HIV.

“This opportunity opened my eyes to the realities of the HIV/AIDS pandemic, which cannot be learned working in the laboratory. I look forward to a close working relationship with the Indian researchers and it’s exciting to see that Australia can play a leading part in helping India deal with HIV-associated diseases.”

The new position is a win-win for both institutions, the physiotherapy profession and the community.

“Everyone benefits by strengthening the culture of clinical research. My goal is to help develop an evidence base for physiotherapy treatments which ultimately flows on to better patient care,” she said.

Ms Bisset said she enjoys the challenge, diversity and dynamics of clinical research.

“My area of interest is chronic musculoskeletal conditions such as tennis elbow and ankle instability. This new position gives me better access to patients and an opportunity to focus on my research but it will also broaden the overall scope of research.”

She said she will act as a resource and touchpoint for hospital staff – teaching research methodology to physiotherapists and other clinical staff, encouraging them to bring forward research questions and then mentoring them in the research process.

Ms Bisset will also continue to supervise physiotherapy research students.

Staff news

Teaching Award

School of Psychology’s Dr David Neumann has been awarded the Pearson Education and Australian Psychological Society (APS) Early Career Teaching Award. Statistics offerings within psychology programs are often viewed by students as difficult and Dr Neumann has been acknowledged for his efforts to make the material comprehensible and enjoyable for the students. In recognition of the award, Dr Neumann will present a paper on teaching research methods/statistics at the APS conference in Hobart in September.

Pharmacy graduates give back

Pharmacy education at Griffith has done a full circle with three of its first cohort of graduates returning to the School this year to take up sessional teaching positions. Briohny Spencer, Jenny Whelan and Scott Cooper will bring their talents to the classroom after having completed their Bachelor of Pharmaceutical Science, Master of Pharmacy and pre-registration internships, and practiced as registered pharmacists both in community and hospital settings. As pharmacy is an area that is desperately in need of academics, the School sees value in growing its own teachers who not only bring a fresh perspective to the profession but are in tune with the School of Pharmacy programs and mission.

Promotions

Health Group staff have been recognised for meritorious performance across all areas of academic work, or for outstanding achievement in the areas of teaching, research, and service or leadership. Dean - Learning and Teaching for the Health Group Nick Buys has been promoted to full Professor for outstanding achievement and leadership in service. Elizabeth Kendall, from the School of Human Services, was also promoted to Professor for outstanding achievement in research. Chris Barclay and Rod Barrett (Physiotherapy and Exercise Science), Paula Brough (Psychology), Jayne Clapton (Human Services) and Marie Cooke (Nursing and Midwifery) were promoted to Associate Professors. Promotions to Senior Lecturers included Mark Chappell and Tamara Ownsworth (Psychology), Amy Johnston (Nursing and Midwifery), Kym Macfarlane and Jennifer Osmond (Human Services) and Dean Pountney (Medical Science). Ruth Cantrill, Debbie Massey, Marion Tower, Rachel Walker and Gary Mellor (Nursing and Midwifery) were promoted to lecturers.

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FUNDING

Angwin AJ. The nature and rehabilitation of communication deficits in aphasia: The role of cognitive-linguistic functions. $274,000.


Brough P. Collaborative research project to improve the physical, psychological and organisational health of their staff. Healthy Workplaces. Qld Police Service. $100,000.

Cooke M, Moyle W, Shum D, Harrison S. The Effect of Music on Agitated Behaviours in Older People with Dementia: A Randomised Control Trial. NHMRC Dementia Research Grant Program. $148,475.

Gandhi M and Griffiths L. The Griffith / QIMR Diffuse Large B cell Lymphoma Project. Griffith Medical Research College Research collaborations Scheme. $20,000.

Harris N. Addressing physical activity and nutrition. QH Southside Health Service District. $224,850.

Harriss N. Nutrition and Physical Activity Needs in the Logan-Beaudesert Region, Logan-Beaudesert Chronic Disease PBI, Queensland Health. $224,850.

Jones L, Rowe J and Sheeran N. Teenage maternal adjustment during the transition home from hospital with a preterm or low birth weight infant: The role of community services. Department of Communities Priority Research Program. $44,424.

Kendal E, Henderson S, Queensland ‘Connecting Health in Communities’ Grant, To develop locally based bi-lingual health promoters to work with culturally and linguistically diverse communities to improve access to health services and therefore health outcomes. $250,000.

O’Callaghan F. Headspace/National Youth Mental Health Foundation, Youth Services Development Fund: Establishment of a Community of Youth Services. $945,000.


Stewart D, Harris N. Community Engagement Grant for HYPE Hip Hop Health 2008 program. $16,000.

CONFERENCES


West NP, Pyne DB, Kyd JM, Renshaw GMC, Fricker PA, Cripps AW. Exercise induced changes in innate immunity of the airways. Griffith Institute for Health and Medical Research Conference, Gold Coast, Dec 2007.


