

2015/16

ANNUAL REPORT



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Message from the Chairman Tom Ryan

The Centenary of Gallipoli celebrations may have taken place last year, but the legacy of our brave veterans continues to underpin everything we do here at the Gallipoli Medical Research Foundation (GMRF).

Our research is informed by the health needs of our veteran community, and over the past 12 months we have continued to strengthen this connection.

One of our primary focus points has been illnesses of the liver, chiefly; fatty liver disease and liver cancer. With the rate of liver health issues significantly higher amongst veterans than in the civilian population, we knew this was an area that needed to be developed.

Much of this work will see the greatest benefit provided to future generations but we certainly have not forgotten our current defence force personnel or veterans.

In partnership with RSL Queensland, we are planning to use the findings from our PTSD Initiative Vietnam Veteran Study to implement a training and education program for doctors.

This training kit will provide the necessary resources for general practitioners and other allied health professionals to better identify both the physical and psychological symptoms of post traumatic stress disorder. It will provide a significant step forward in caring for our veterans who

bravely served our country.

I am incredibly grateful to RSL Queensland for their ongoing partnership and commitment to veteran mental health.

It has also been exciting to see the 'grass roots support' continue to grow. Individuals, community groups, and businesses are all involved in helping to progress vital research.

I hope you enjoy reading this Annual Report and seeing the impact of your support for our veterans and the wider Australian Community. With your help we'll continue to live out the three words the team see everyday as they enter our Foundation - Remembrance through research.

Thank you.

Tom Ryan - Chairman



“Our research is informed by the health needs of our veteran community, and in the past 12 months we have strengthened this connection.”

Message from the CEO Miriam Dwyer

The Gallipoli Medical Research Foundation is a small team that is taking on some of the biggest health issues of our time. As you'll read in this report, the statistics on Australia's liver health paint an alarming picture, but we are not daunted by the task ahead.

During the last 12 months, we have consolidated existing research streams and established new projects to develop improved treatment options for serious illnesses such as fatty liver disease and liver cancer. Each of our scientists and doctors has their own reasons for dedicating their careers to innovative medical research, but they are all unified in their dedication to discovery.

One aspect of our work which I am particularly proud of is the strong focus on 'bench-top to bedside' research. While much of the progress we make towards new cures and treatments will be of most benefit to future generations, we are also alleviating the burden of illness and disease right now in a measurable and meaningful way.

The GPH Cancer Wellness Program is the perfect example. Early this year, the nurses of the Cyril Gilbert Cancer Centre here at Greenslopes Private Hospital came to me with an idea to improve outcomes for cancer patients.

The outcome was the development of a program which identifies needs and interventions to better address the needs of patients, particularly post treatment.

That's the impact of our donors; life-changing support for patients now and life-saving medical research that will benefit future generations.

As we move forward, our vision remains clear: to enhance the health of the Australian community through the highest quality medical research. This is not science for science sake. Rather, we want to develop real-world, clinically relevant solutions which can treat – and even cure – disease.

We value getting to know as many of our supporters as possible. If you should have any questions about the work outlined in this report, please feel free to contact us at 07 3394 7284 or enquiries.gmrf@ramsayhealth.com.au.



Miriam Dwyer – Chief Executive Officer



“As we move forward, our vision remains clear: to enhance the health of the Australian community through the highest quality medical research.”

Message from the Director of Research Prof Darrell Crawford

I always enjoy the annual review process because I get to see a clear and concise picture of the impact our research units are making in their progress towards medical breakthroughs.

As I look back over the last 12 months, what I find particularly pleasing is the level of participation our research institute has had on an international stage. Over the last 12 months, we have presented at major international conferences around the world, contributing to the global knowledge in the field and building important partnerships with other research units.

We do this because we know that collaboration is essential to achieving results. Each of our units have continued to establish and strengthen research partnerships - locally, nationally, and internationally.

The last 12 months have also been an exciting time of growth; expanding our teams and pursuing new areas of research.

As has been the case from the beginning, our research continues to be informed by the needs of our veterans, but the overall impact of this work is far-reaching.

Our Liver Cancer Unit is the only dedicated liver cancer research facility in Queensland. It is progressing anti-metastasis and immunotherapy research with the aim of

significantly improve the treatment options available for liver cancer patients in the future. It's incredibly innovative work - but it requires a lot of time and money.

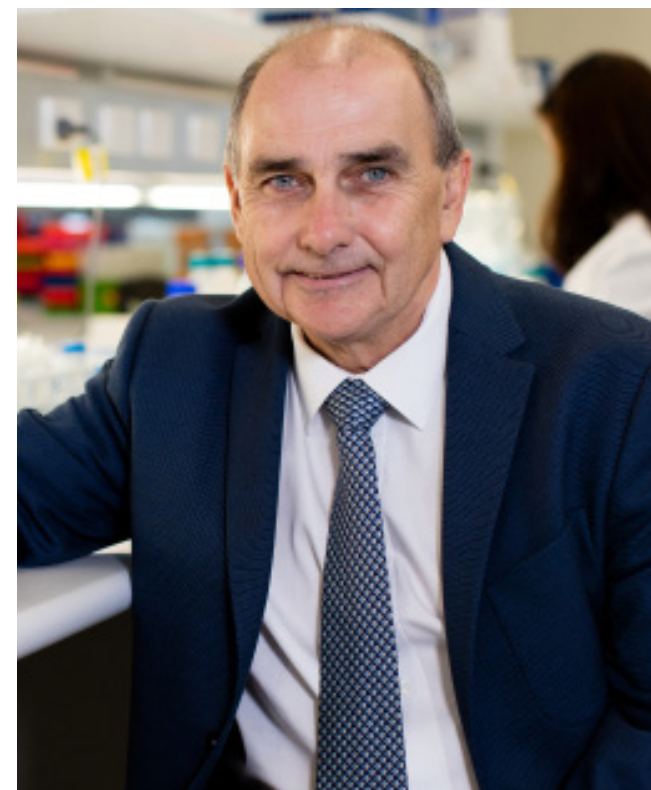
That's why I am continuously brought back to the crucial role our donors play in our medical research. We don't receive any regular government funding and the grants we apply for have an extremely low success rate - 10% infact.

To even get research to the point of applying for a government grant can takes years, and a significant amount of funding. Our donors make this possible. I am inspired by their belief in the innovative research being conducted in our laboratory.

We remain committed to alleviating the burden of serious illness through research. Exploring and testing new treatments is not a quick process, but we're in it for the long haul. With generous donors continuing to support us, I am very excited for what we can achieve together in the next 12 months and beyond.

Thanks again.

Darrell Crawford – Director of Research



“

...collaboration is essential to achieving results. Each of our units has continued to establish and strengthen research partnerships - locally, nationally, and internationally.

”

GMRF Profile

About us

Gallipoli Medical Research Foundation is an Approved Research Institute (ARI) committed to life-changing medical research.

We engage with individuals, businesses, and communities to grow the research of the Gallipoli Medical Research Institute. We focus on translational research with immediate and meaningful impact. We are proud to be based on the campus of Greenslopes Private Hospital (GPH).

The in-kind support we receive from GPH, in combination with the income we derive from our Clinical Trials Unit, pays for our administrative costs.

Therefore, 100% of donations we receive go directly to medical research.

Our vision

Enhanced health of the Australian community through the highest quality medical research.

Our mission

To lessen the impact of disease today while also searching for the cures of tomorrow by:

- Working to alleviate the burden of disease impacting our Veteran community
- Providing the infrastructure, governance and resources to support approved research endeavours

- Conducting and funding translational laboratory research; research that can have the quickest movement from 'bench to bedside'



Because treating cancer takes caring...



The Gallipoli Medical Research Foundation is committed to alleviating the burden of serious illness, not only through the development of new treatment options for future generations, but through practical support for people suffering from illness right now. Funded by GMRF donors, The GPH Wellness Program is a new initiative of the Cyril Gilbert Cancer Centre which will provide holistic care to cancer patients and their families.

Currently under development, the program aims to provide a tailored approach to needs assessment and follow-up to ensure optimal patient centred care is delivered, post oncology treatment. The program will identify unmet patient psychosocial needs like counselling, advice on diet and exercise, and advice and support for carers which will enhance existing cancer treatments.

Pictured: Carissa Price, a cancer patient at the CGCC since 2011, and her four kids have joined our “Count Me In” campaign to help raise funds and awareness to support cancer patients at the centre.



GPH CANCER
WELLNESS
PROGRAM

Research Activities

Liver Research Unit led by Professor Darrell Crawford

100% of required funding for the Liver Research Unit during the 15/2016 Financial Year was provided by GMRF donors

One PHD awarded.
TWO MORE STUDENTS ARE ON TRACK TO COMPLETE THEIR PHD IN THE 2016/2017

8 New publications contributing to the global knowledge on liver disease

The state of Australia's liver health is worsening at an alarming rate. As it stands, one in three adults in this country has, or will develop, fatty liver disease. The GMRF Liver Research Unit is working to improve understanding of this disease, and help provide better treatment options for sufferers.

Over the past 12 months, our Liver Research Unit has conducted studies into: disorders of iron metabolism, liver co-toxicity of iron, fat and alcohol, the cellular basis of hepatic fibrosis, emerging potential anti-fibrotic therapies, hepatocellular carcinoma, and biliary injury.

The Liver Research submitted 1 NHMRC Project grant for funding in 2017, with the outcome currently pending. During the 2015/2016 Financial Year, this unit received 100% of its required funding from GMRF donors.

It has been a year of engagement and recognition in the international liver research community, with members of the Liver Research Unit attending and presented at the Australian Gastroenterology Week 2015, the American Association for the Study of Liver Diseases, and the

International Hepato-Pancreato Biliary Association World Congress 2016 (see Appendix for abstract titles).

Nishreen Santrampurwala successfully completed her PhD this year. Her research identified key factors in the development of fatty liver disease which will contribute to further research. Dr Janske Reiling will complete her PhD in September 2016 and Dr Laurence Britton, early 2017.

One student set to complete her PhD shortly, Dr Janske Reiling, received funding from PAH Liver Transplant Trust Funds and TSANZ to attend American Transplant Meeting, Boston. Her Abstract was accepted by Australian Gastroenterology Week 2016 and was selected as a Young Investigator Award Finalist. 2016 AGW in Adelaide as poster, abstract selected for Young Investigator Award finalist AGW 2016.

Several projects for potential students have been developed pending the securing of funding. The Unit plan to seek new students to start in the 2016/2017 Financial Year.

The Liver Research Unit continued to build strong research partnerships to produce effective collaboration in innovative research into various forms of liver disease.

INTERNATIONAL:

A/Prof Ari Cohen, Ochsner Medical School, New Orleans
Professor C. Dejong, University of Maastricht, The Netherlands

NATIONAL:

Professor Leon Adams, University of Western Australia

LOCAL:

Professor Michael Roberts, Uni SA and TRI
Professor Grant Ramm, QIMRB

Dr Nishreen Santrampurwala graduated from her PhD studies in 2016. Dr Janske Reiling will complete in September 2016 and Dr Laurence Britton, early 2017.

Research Activities continued

Liver Cancer Unit led by Dr Jason Steel

GMRF

operates the only dedicated liver cancer unit in Queensland

EXPANSION OF THE LIVER CANCER UNIT

with the addition of a new research officer.

4 publications into international journals

The GMRF Liver Cancer Unit is conducting a range of research projects into improving treatment options for liver cancer, including immunotherapy and anti-metastasis therapy research. A recent addition to the team was the appointment of Research Officer, Dr Aparna Jayachandran.

Research Officer, Aparna Jayachandran presented her work on identification and targeting liver cancer stem cells at the Colloquium on Emerging Metabolomics in Las Vegas, USA. The conference gave Dr Jayachandran the opportunity to highlight research on applying an innovative technique of identification and enrichment of cancer stem cells from human and mouse liver cancer cells. She also presented our work on characterizing cancer stem cell properties.

PhD Student, Bijay Dhungel, successfully completed his first year confirmation, and continues to progress his exciting research in creating viral vectors to specifically target liver cancer stem cells. (See page 16 for more on Mr Dhungel's research.)

The unit submitted 15 grant applications for funding during the 2015/2016, the majority of which are still pending. \$50,000 was awarded by the GMRF donor-funded Cyril Gilbert Grants.

Collaboration continued to play a vital role in the progression of the unit's research. Key partnerships for the past 12 months include;

INTERNATIONAL:

1. Assoc.Prof. Laura Conforti- University of Cincinnati, Division of Nephrology & Hypertension
2. Prof. John Morris- University of Cincinnati, Division of Hematology & Oncology
3. Dr John Chiorini & Dr Giovanni Di Pasquale - National Institutes of Health- NIDCR
4. Dr Jay Berzofsky & Dr Lauren Wood- National Institutes of Health- NCI
5. Prof. Georgios Stathopoulos- CPC-Helmholtz Zentrum Munich, Germany
6. Dr Trevor Reichman & Dr Paul Thevenot- Ochsner Health, New Orleans, USA

NATIONAL:

1. Prof. Erik Thompson- QUT
2. Prof Jonathan Fawcett- UQ, PAH
3. Assoc. Prof. Christopher Layton- UQ SOM
4. Dr. Graham Leggatt- UQ Diamantina
5. Prof. Darrell Crawford- UQ SOM
6. Prof Mike Robert- UQ SOM

"I am very grateful for the generous travel grant I received from GMRF donors. Presenting our research work at the colloquium and obtaining feedback from international leading experts in the field was immensely motivating for me."

Dr Aparna Jayachandran - Research Officer

Research Activities continued

PTSD Initiative led by Dr Sarah McLeay

GMRF PTSD INITIATIVE

VIETNAM VETERAN STUDY under review for publication

This year we reached publication stage on the PTSD Initiative Vietnam Veteran Study. The overall results from the study: the long-term health consequences of PTSD were submitted at the end of the financial year and is currently under review by MJA.

The results of the sleep study have been recorded across two manuscripts: prevalence of (1) sleep disorders (2) parasomnias in Vietnam veterans with/without PTSD. Robyn O'Sullivan and sleep fellows at SleepCare, Greenslopes Private Hospital, worked with the PTSD Initiative team to complete the manuscripts.

The primary study has been completed however there are also a number sub studies being developed. These additional studies include actigraphy, polysomnography, and fatty liver/haemochromatosis studies.

Ethics approval was obtained from GREC, Department of Veteran Affairs, and University of Queensland for

Presentation of
abstracts at **EIGHT** major
conferences

substudies as required. Recruitment for the substudies has commenced.

As the research from the past 12 months demonstrated, illnesses of the liver are a significant health concern for the veteran community. Liver disease ranks as the second biggest killer of Australian veterans from the war in Vietnam.

While the findings of the study are yet to be released, work is already underway to put research into action with the aim of improving the health of veterans, both now and in the future. The results of the Vietnam Veteran Study will be used to create an Education Program in partnership with RSL Queensland which will better equip doctors to identify and address both the mental and physical health needs of veterans.

The PTSD Initiative Team have been incredibly active in the scientific community, both nationally and internationally, attending or presenting abstracts at the following conferences:



UNDER DEVELOPMENT

Partnering with RSL Queensland to create a GP Education Kit to improve treatment of PTSD.

- Australasian Conference on Traumatic Stress (ACOTS)
- Australasian Military Medicine Association (AMMA)
- International Society for Traumatic Stress Studies (ITSS)
- Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand (CSANZ)
- European Society of Cardiology (ESC) congress
- Australasian Gastroenterology Week
- Australasian Sleep Association (Sleep DownUnder 2016)

Two PhD students worked with the PTSD Initiative team during the 2015/2016 financial year; Dagmar Bruenig, who is due to complete her PhD next year, and Wole Akosile who will undergo PhD Confirmation next year.

The PTSD Initiative is funded by the generous support of RSL Queensland.



**RETURNED & SERVICES
LEAGUE OF AUSTRALIA**
QUEENSLAND BRANCH

Research Activities continued

Veteran Mental Health Initiative led by Dr Madeline Romaniuk

LAUNCH

of stage 1 of the VMH Initiative
'Soldier' to Civilian

FIVE
peer-reviewed
conference
papers

75

interviews conducted
with veterans, partners
of veterans and health
professionals

The Veteran Mental Health Initiative works to bridge the gap in education and support services available for defence force personnel who are transitioning into civilian society.

At present, many veterans are struggling with the reintegration process. "A recent U.S investigation found that up to 56% of Iraq and Afghanistan veterans receiving Veteran Affairs (VA) medical care reported significant difficulties with reintegrating into community life including "participating in activities", "getting along with my partner" and "finding and keeping a job". The authors also reported that 96% of the sample expressed interest in services to help readjust to civilian life (Sayer et al, 2010)."

The Veteran Mental Health Initiative has been categorised in five stages;

- VMH-01 (Reintegration & Adjustment)
- VMH-02 (Mates4Mates Equine Evaluation)
- VMH-03 (Timor Awakening)
- VMH-04 (Survive to Thrive)
- VMH-05 (SIMPAQ)

The focus of the past 12 months has been VMH-01:

'Soldier' to Civilian: A Qualitative Analysis of Cultural Reintegration and Psychological Adjustment to Civilian Life Following Military Service. The project received GPH and DVA ethics approval March 2016, and recruitment commenced April 2016.

Recruitment and data collection is ongoing and due for completion in November, 2016. The team have currently completed interviews with:

- 45/60 Veteran participants
- 6/20 Partner participants
- 20/20 Health professionals

The veterans interviewed include males and females from Navy, Army and Airforce. The majority of participants are from South-East Queensland, but interviews have also been conducted and scheduled in Hobart, Townsville, Canberra and Sydney.

Separate databases have been constructed for each VMHI project. The VMH-01 database includes participant demographic and service information, brief self-report psychological and medical history, baseline psychometric assessment scores as well as interview transcripts. The

VMH-02 database includes the Mates4Mates membership form responses (demographic and service information, medical history), 'pre/post' intervention and 'follow-up' psychometric assessment scores, as well as qualitative program feedback.

The Veteran Mental Health Initiative is funded by the generous support of RSL Queensland.



RETURNED & SERVICES
LEAGUE OF AUSTRALIA
QUEENSLAND BRANCH

"We have had overwhelming support for this project from the veteran community so far, demonstrating the importance of addressing reintegration difficulties through research. I cannot thank our participants enough for their time – their experiences and interviews will shape the way we understand and manage the complexities of transitioning out of the military."

Dr Madeline Romaniuk, Project Lead

Research Activities continued

Ophthalmology Research Unit led by Dr Chris Layton

Presentation at **SIX** major conferences



Awarded '**BEST PRESENTATION**'

at the 2015 European Association for Vision and Eye Research Conference

9 publications into peer-reviewed journals

The GMRF Ophthalmology Research Unit is driven to positively impact the full range of conditions which lead to blindness. Our approach includes laboratory research into the mechanisms of diabetic retinopathy and the establishment of bedside clinical trials in ocular trauma and macular degeneration.

Over the past 12 months, the team's work has focused on the following projects:

- The role of insulin in retinal neuronal survival in diabetic conditions
- The role of EPO in retinal neuronal survival in diabetic conditions
- Genetic defects in Stargardt's Disease
- Development of a human cell culture model of diabetic retinal neuropathy
- Australian epidemiology of uveal melanoma
- Molecular prognostic markers in uveal melanoma

- Quantifying human functional markers of diabetic retinal neuropathy
- The effect of previous EPO treatment on functional markers of diabetic retinal neuropathy in humans
- Circulating miRNA makers of diabetic retinopathy
- Examination of the use of survival statistics in ophthalmology
- Establishment of the Australian Diabetic Retinopathy Biobank

The Ophthalmology Research Unit presented at a number of international conferences throughout the year. Dr Chris Layton and Gabriela de Moraes were awarded 'Best Presentation' at the European Association for Vision and Eye Research Conference in Nice, France for their presentation entitled The effect of glucose and insulin on the susceptibility of cultured photoreceptor-like cells to hypoxia.

Major partnerships during the past 12 months include;

- Nigel Barnett (UQ)
- Beatrix Fiegl (QUT)
- Andrew Zele (QUT)
- John Wood (SA)
- Rob Casson (SA)
- Neville Osborne (UK)

Research Activities continued

Respiratory Research Unit led by Dr Rachel Thomson

Steering member
of the Australian
Bronchiectasis
Consortium

FOUR STUDENTS

undertaking a **RESEARCH DEGREE AWARD**
with the GMRF Respiratory Research Unit

5

Journal
publications in the
past 12 months

Over the past 12 months, the GMRF Respiratory Research Unit maintained a strong focus on research into pulmonary nontuberculous mycobacterial infections, a condition that is becoming increasingly prevalent in Queensland.

The Respiratory Research Unit is a member of the steering group of the Australian Bronchiectasis Consortium. As member of this group, Dr Rachel Thomson attended a number of ATS networking to secure funding for the registry. Funding has since been secured by LFA.

Ethics approval obtained for GPH to participate in this national registry of Bronchiectasis patients, which forms part of the larger international collaboration with the European Registry (EMBARC) and the US registry. Patient recruitment has commenced and data entry will commence in September.

Due to the \$US-AUS exchange rate, the amount of funding obtained by the US CFF to study Airborne transmission of bacteria increased significantly, allowing for the salary of a scientist to assist on the project. Key partnerships for the Respiratory Research Unit include:

- Associate Professor Geraint Rogers, Director Microbiome Research, SAHMRI
- Prof Scott Bell, Head of Research, Metro North Health District, QLD Health
- Prof John Miles, QIMR-Berghofer, Brisbane
- Prof Patricia Price, University of Western Australia
- Prof Andres Floto, University of Cambridge
- Assoc Prof Flavia Huygens, QUT
- Dr Lucy Burr Mater Medical Research Institute
- Colleen Lau, Luke Knibbs School of Population Health, UQ



Rheumatoid Arthritis Research Project

Dr Helen Benham with support from the GMRF Clinical Trials Unit

Rheumatoid arthritis (RA) is a common and incurable chronic inflammatory joint disease affecting 1-2% of Australians. It is a disease associated with significant disability and reduced life expectancy. Rheumatoid arthritis (RA) is characterized by inflammation of the joint tissue and other body sites including the lungs, eyes, heart, blood vessels and nerves. The cause of RA is unknown but it is considered a multifactorial disease with both genetic and environmental factors contributing.

In the FDRRA project we have established a prospective cohort of participants with RA, first-degree relatives (FDR) and healthy controls to try and identify genetic, environmental, immunological and microbial factors

contributing to the development of RA.

Through GMRF as our clinical trial site we have recruited over 200 participants in the past 18 months. We have produced significant and exciting preliminary data further characterizing RA and FDR in regards to immune markers, genetics and also the microbiome in the mouth and the gut. The preliminary data was presented at the Australian Rheumatology Association Annual Scientific Meeting in May this year and was awarded the best oral basic science presentation. The data will be further presented at the American College of Rheumatology Meeting in November.

GMRF involvement in the study includes; participant review, demographic and environmental data

collection and database entry and collection of participant samples including blood and tongue swabs. The GMRF staff work in collaboration with the investigators and staff from UQDI to ensure that participant recruitment, review and subsequent data and sample collection is efficient and effective allowing the UQDI investigators to undertake crucial experiments in the lab and analysis of the epidemiological data.



“Through GMRF as our clinical trial site we have recruited over 200 participants in the past 18 months. We have produced significant and exciting preliminary data,”

Dr Helen Benham (pictured above) has worked closely with the GMRF Clinical Trials Unit (pictured right).



GMRF PhD Scholarship Program



PhD research: Biliary complications following liver transplantation

Student: Dr Janske Reiling

Supervisors: Professor Jonathan Fawcett, Dr Kim Bridle, Professor Darrell Crawford

In 2013 only 50% of patients on the liver transplant waiting list received a transplant, while 10% died or became unsuitable for transplantation due to disease progression.

To increase the number of donors, livers donated after circulatory deaths are being considered for transplantation. However, such organs often develop injury and subsequent narrowing of the bile duct. Dr Reiling's work is in the process of being approved for a clinical setting to help give more patients on the transplant waiting list a second chance at life.

Dr Reiling has continued her research into the rates of usability of transplant livers. Her research has found that the number of organ donors increased from 163 in 2005 to 332 in 2014 with 19% of these donated after circulatory death. The percentage of livers deemed unsuitable for transplantation increased significantly from 26% in 2005 to 43% in 2014.

Dr Reiling's research identified the Primary risk factors for a liver being ineligible for transplant as

- Donation after circulatory death
- Donor age
- Obesity
- Diabetes

To date, perfusion has been performed on 10 human donor livers which were declined for transplantation due

to the anticipated increased risk of malfunction. From this she has developed a perfusion system which will better assess eligibility with the aim of increasing the number of livers available for transplant.

Dr Reiling presented a poster on her work at the 12th World Congress of the International Hepato-Pancreato-Biliary Association, Sao Paulo, Brazil. She also attended the Australian Gastroenterology Week Convention in Adelaide where she was nominated as a finalist for the Young Investigators Awards.

"There is a pressing need to increase the number of donor livers available for transplantation given the growing number of patients on the waiting list," Dr Reiling says.

Dr Reiling is now in the process of getting her research

into a clinical setting, with the application currently pending with the Human Research Ethics Committee. She is due to complete her PhD later this year.

Dr Reiling's work is supported by a grant from the Godfrey Family.

GMRF PhD Scholarship Program continued



PhD research: Immunotherapy of liver cancer

Student: Mr Bijay Dhungel

Supervisors: Dr Jason Steel

Over the past 12 months, Mr Dhungel has been developing a protocol to manufacture viral vectors in large quantities. The aim is to use viral vectors to target the cancer cells directly, rather than also attacking healthy cells.

He has tested his viral vectors in cell lines and major organs of the body. Following this, Mr Dhungel plans to progress this research to preclinical testing.

Since the last milestone, Mr Dhungel has successfully completed his confirmation as per the UQ requirements.

As part of his research, a working protocol for the construction and titration (quantification) of the viral vectors has been established and the panel of cell lines required to check for the hepatocellular carcinoma (HCC) specificity of the vectors has been increased to cover most of the important organs.

He has tested two of the modified vectors in a few cell lines and preliminary studies show encouraging results.

He and the Liver Cancer Unit are in the process of manufacturing the vectors in large scale and testing them across the panel of cell lines they've collected. The selected viral vectors will then be tested in mice model of HCC.

Bijay has also contributed to three publications and presented his research at the Colloquium on Emerging Metabolomics 2016.

"It's all about developing the technique. If it works for liver cancer it'll work for other types of cancer as well,"
Mr Bijay Dhungel.

Mr Bhungel's full PhD Scholarship is generously provided by the Thorsen Family Foundation.

GMRF PhD Scholarship Program continued



PhD research: The role of adipocyte iron in non-alcoholic fatty liver disease

Student: Dr Laurence Britton

Supervisors:

Professor Darrell Crawford, Professor Nathan Subramaniam

Dr Britton is nearing completion of his PhD having finished three of five chapters of his thesis. One of these has now been published in the journal "Physiological Reports." Another has been resubmitted following minor revisions to the World Journal of gastroenterology and the third is at final draft stage prior to submission. Ongoing laboratory work and analysis of data continues for the remaining two chapters.

As part of his research, Dr Britton has been able to refute a treatment option for fatty liver disease by showing iron removal by blood-letting is unlikely to be beneficial. This brings the team a step closer to developing improved treatment options.

Along with other members of the GMRF Liver Research Unit, Dr Britton presented at the National

Gastroenterology Week 2015 in Brisbane. He has also contributed to the global knowledge on liver disease through his work on the following publications.

- Serum adipokines in response to venesection in patients with non-alcoholic fatty liver disease. (Final draft stage)
- Iron and Non-Alcoholic Fatty Liver Disease. (Re-submitted after minor revisions to World Journal of Gastroenterology).
- Hfe gene deletion leads to impaired glucose homeostasis but not liver injury in mice fed a high calorie diet. *Physiological Reports*, 4 (12), 2016, e12837, doi: 10.14814/phy2.12837

See Appendix 1 for more information on publications.

The incidence rate Non-alcoholic fatty liver disease is increasing rapidly in Australia, affecting almost one in three adults.

Fatty liver disease often presents no symptoms and can progress to liver failure, liver cancer, diabetes and heart disease.

GMRF PhD Scholarship Program continued



PhD research: Genetic, biomarker and psychological factors for risk and resilience of PTSD

Student: Mrs Dagmar Bruenig

Supervisors: Dr Joanne Voisey, Prof R McD Young

While prevalence rates vary, it is estimated that up to 30% of veterans have developed or will be developing PTSD.

A number of psychological and genetic factors have been proposed to contribute to PTSD. However, findings have been inconsistent.

Since Mrs Bruenig's last milestone (confirmation, February 2015) she has analysed a gene for association with post traumatic stress disorder (PTSD), which was published in May in an internationally peer reviewed journal:

Dagmar Bruenig, Janine Lurie, Charles P. Morris, et al., "A Case-Control Study and Meta-Analysis Reveal BDNF Val66Met Is a Possible Risk Factor for PTSD," Neural Plasticity, vol. 2016, Article ID 6979435, 10 pages, 2016. doi:10.1155/2016/6979435

As part of her work, Mrs Bruenig has performed a systematic review and analysed the same gene for association with fear. This manuscript is in preparation and will be submitted by September 2016.

The most significant milestone in the past year has been the receipt of the patient database from GMRF and the genetics results, both in December 2015. Mrs Bruenig has been working intensively to clean, organise and code the databases. This work includes the addition of cortisol collection times information to the database after perusing the patient files. Together with Dr Romaniuk,

Mrs Bruenig reconciled all alcohol information and recoded alcohol history based on available qualitative data. Mrs Bruenig has actively participated in a range of professional activities during the past 12 months, include;

- Participation at a 3-day-workshop Teaching Advantage at QUT (March 2016)
- Invitation to develop application for Higher Education Academy, UK, for Associate Fellowship. The academy endeavours to foster high standards in tertiary education, and a fellowship is considered an important part of alignment with high standards of teaching practise and to formalise and progress teaching experience.
- 2-hour seminar on gene patents (April 2016)
- 2-hour workshop on authorship and publications (May 2016)
- Attendance of fortnightly School of Biomedical Sciences Lecture Series
- Attendance of various seminars/talks offered by IHBI

and affiliated organisations

- Regular attendance of IHBI internal journal club meetings (monthly)
- Lecturing about schizophrenia for pharmacy students (September 2015)
- Lecturing about schizophrenia, bipolar disorder and attention deficit hyperactivity disorder (ADHD) (September 2016)

Mrs Bruenig's work is made possible by the generous ongoing support of RSL Queensland.



RETURNED & SERVICES
LEAGUE OF AUSTRALIA
QUEENSLAND BRANCH

Research Grants

For the past five years, the GMRF Innovation Grants, made possible by Hanrick Curran, have been contributing to practical advances in hospital operations and patient outcomes at Greenslopes Private Hospital.

The grants equip nurses and allied health professionals to use their skills and experience to coordinate their own research project.

The calibre of the research projects undertaken has always been high, and 2015 was no exception.

Two grants projects were funded in the 2015 round of the GMRF Innovation Grants, both of which have made a measurable impact in improving clinical outcomes for staff and patients.

Investigating the psychological and functional outcomes of a multidisciplinary chronic pain management program with an ex-service personnel and civilian sample

Chronic pain is a debilitating illness that is having a dramatic impact on the quality of life of thousands of Australians. It is not responsive to treatments and endures for at least six months after the typical healing time of an injury. Chronic pain and post-traumatic stress disorder (PTSD) are the two most prevalent conditions among the ex-service population – with a large population of Veterans suffering with both.

\$11,695 was awarded for a research project that looked at taking a holistic approach to the treatment of chronic pain. Some of the team's findings include:

- The highest prevalence rates of chronic pain in veterans was chronic back pain with 52% and the second highest multiside chronic pain with 31%.
- An inverted trend was observable in the group of civilian participants, where multiside chronic pain was the most prevalent (38%) and the back pain (34%) was placed second.

- Participants in both groups reported significantly reduced levels of depression, anxiety and stress following completion of the IMPACT program.

The findings from this donor-funded research project showed that pain management program is crucial to psychological and functional improvement of veterans suffering from chronic pain. Interestingly, ex-servicemen report even greater improvements than civilians following completion of the IMPACT program, which emphasizes the importance of a multidisciplinary approach to treatment of veterans with comorbid chronic pain.

Measurement of radiation exposure to the eye and brain of staff during diagnostic and interventional cardiac angiography

The grants program has not only enhanced patient outcomes, it has also been used to improve health and safety outcomes for hospital staff.

Kelly Wilson-Stewart, a Radiographer at GPH, conducted an Innovation Grant research project with the aim of improving procedures for staff during diagnostic and interventional cardiac angiography.

The research project quantified the level of brain and eye dose to staff with data collected for over 300 cases. Information included;

- type of procedure
- Dose Area Product and Air Kerma (measures of radiation dose to the patient),
- fluoroscopy time
- number of cine runs per case
- access point (radial or femoral artery)
- lesion classification
- temple radiation dose to Medical operator
- temple radiation dose to scrub and scout nurse

One early trend that has been identified is that the scrub nurse receives a significantly higher dose during radial access cases than the operator. If this is shown to be statistically significant, the next step will be determining methods to reduce the dose received.

While the project is ongoing, the findings have already prompted the purchase of led caps for staff to use during the procedure. This has resulted in a proven reduction in the risk of occupationally induced brain cancer and cerebral vascular degeneration.



"There is not much data coming from Australia so this grant is very important. Thank you to all GMRF supporters!"

Dr Alichniewicz.

The GMRF Innovation Grants are proudly supported by -



Board of Directors

1 Dame Quentin Bryce (Patron)

AD CVO

Ms Quentin Bryce has enjoyed a rich and distinguished career as an academic, lawyer, community and human rights advocate, senior public officer, university college principal, and vice-regal representative in Queensland and for Australia.

Her contribution to advancing human rights and equality, the rights of women and children, and the welfare of the family was recognised in her appointment as an Officer of the Order of Australia in 1988 and a Companion of the Order of Australia in 2003. Also in 2003, she was invested as a Dame of Grace of the Most Venerable Order of the Hospital of St John of Jerusalem. On 5 September 2008 Quentin Bryce was sworn in as Australia's twenty-fifth Governor-General. Her term concluded in March 2014 and Prime Minister Tony Abbott announced on 25 March 2014 that Ms Bryce had become a Dame in the Order of Australia.

2 Mr Tom Ryan (Chairman) B Pharm, FACP, FAICD

Mr Tom Ryan formerly a Director and Chairman of Australian Pharmaceutical Healthcare Systems (APHS). Mr Ryan was a founding partner of the APHS Group. The APHS group provides pharmacy services within private hospitals, as well as providing oncology services to a variety of public and private hospitals and also providing an extensive service to aged care facilities for both prescription supply and clinical consultancies, and community pharmacy services. Mr Ryan owned and operated the pharmacy service at Greenslopes Private Hospital from 1995 until 2010.

3 Associate Professor David Colquhoun

MBBS, FRACP, FCSANZ

Associate Professor David Colquhoun is a Cardiologist in private practice. He has been extensively involved in research over the last 35 years involving multi-centre international trials and investigator initiated trials in the area of lipids, nutrition, nutraceuticals, diabetes and obesity. He has presented his research at national and international meetings. He has a private research organization (CORE Research).

He has published and been a referee for major journals. He has been the AMA spokesperson for Cardiology in Queensland. He is a member of the Scientific Committee of National Institute of Complementary Medicine. In 2008 he attended the 2020 Summit nominated by the National Heart Foundation. He was a member of the Queensland Government Smart State Council working group on prevention and early intervention approaches to tackle chronic disease.

He is Chair of the Prevention and Clinical Cardiology Council of the Cardiac Society of Australia and New Zealand. He was a member of the National Heart Foundation of Australia (NHFA) Nutrition and Metabolism Committee. He was Chief Author of the National Heart Foundation's position statement on fish and fish oil in 2008. He was Chair of the National Heart Foundation's Psychosocial Risk Factors and Coronary Heart Disease Expert Committee. He has been on the Board of the NHFA in Queensland since 2014. NHFA in Queensland since 2014.



Board of Directors continued

4 Mr Stephen Copplin FCPA, FAICD

Stephen is the Executive Chairman of the CFO Centre.

His professional career spans numerous industry sectors, including finance, insurance, investment banking, technology, media and creative industries. During his time, Stephen has successfully managed finance operations for multi-national corporations, negotiated multi-million dollar international acquisitions and divestments and built start-ups from inception through to trade sale. Stephen is a Fellow Certified Practising Accountant, A Fellow of the Australian Institute of Company Directors and he is an Adjunct Professor in the School of Business and the School of Electrical Engineering at the University of Queensland. As a professional Company Director, he currently holds a number of non-executive board positions with both public and private companies.

5 Adjunct Professor Tim Daniel

B.Bus, Grad Dip HR Mgmt., NZIoD

Following a career of more than 20 years in Media sales, marketing and management (predominantly Orthopaedics) in New Zealand, Australia and the United Kingdom, Tim joined Ramsay Healthcare in February 2009 as the Chief Executive Officer (CEO) of Kareena Private Hospital, Sutherland Shire Sydney. Following a very successful restructure of clinical services and hospital developments, Tim was appointed to Ramsay's Westmead Private Hospital, Westmead Sydney in July 2011 again as CEO.

In December 2014, Tim was appointed as CEO of Ramsay's Greenslopes Private Hospital, Greenslopes Brisbane where he currently resides.

6 Professor Ken Donald AO

MBBS, PhD, FRCPA, FRCPath, FRACS(Hon), FRACMA

Originally trained as a Pathologist, Ken Donald has had appointments as an Academic Pathologist, Director of Pathology at Royal Brisbane Hospital and later at Hunter Area Pathology Services, and Professor of Anatomical Pathology at The University of Newcastle. Then followed post-doctoral studies at Erasmus University Rotterdam and Edinburgh University Scotland. He has also been Deputy Director-General of Health in Queensland (for a decade) and in the 1990's was Professor and Head of the Department of Social and Preventive Medicine at The University of Queensland and was, until the 31st December 2006, Head of the School of Medicine. He has chaired a number of major national authorities and committees within NHMRC, AIDS Control, Cancer Control and Veterans' Compensation Systems. In recent years he has been Director of Medical Services at Royal Darwin Hospital and Medical Assistant Commissioner on the Health Quality and Complaints Commission in Queensland, and recently retired as Chair of the Repatriation Medical Authority in the War Veterans Compensation System after nineteen years. He has published extensively in medical literature and Textbooks. In 2009/10 he was Director of Medical Services at Katherine Hospital, Northern Territory. He has recently been appointed Professor of Assessment and Evaluation at Griffith University Medical School. He has lead enquires for Queensland Health which involved post-graduate training, registration of overseas doctors and workforce supply and currently Cancer Services and Public Health Research. In 2007 he was made an officer of the Order of Australia (AO), and in June 2012 received the Premier's 2012 Queensland Great Award.



4



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6

Board of Directors continued

7 Dr Michael Harrison

MBBS(1st Class Honours). FRCPA (General Pathology)

Dr Michael Harrison is the Chief Executive Officer/ Managing Partner of Sullivan Nicolaides Pathology and is a Consultant Pathologist at the main Taringa Laboratory. Dr Harrison graduated from the University of Queensland in 1977 with an MBBS (1st Class Honours) and in 1984 was awarded FRCPA (General Pathology).

Dr Harrison is the President of Royal College of Pathologists of Australasia and Chairman of the Quality Use of Pathology Committee. He has presented at many national and international meetings on the topics of Quality, Laboratory Management and e Health.

8 Professor Gerald Holtmann

MD, PhD, MBA, FRACP, FRCP

Professor Gerald Holtmann is Director of Gastroenterology and Hepatology at the Princess Alexandra Hospital in Brisbane, and Associate Dean Clinical at the University of Queensland. He was born in Essen, Germany. He completed his clinical training in Internal Medicine and Gastroenterology at the University Hospital of Essen and by the age of 38, he was appointed Professor of Medicine there as well. He also completed a Fellowship at the Mayo Clinic, Rochester, Minnesota, USA.

In 2004, he was appointed Director of Gastroenterology & Hepatology at the Royal Adelaide Hospital, and Professor of Medicine at the University of Adelaide. From 2007 to 2010, he served a term as Chief Executive Officer (CEO) and Medical Director of the University Hospital Essen. Professor Holtmann is a Fellow of the Royal College of Physicians in London and Fellow of the Royal Australasian College of Physicians. His research is focused in the field of Neurogastroenterology and has continuously attracted peer reviewed funding from national and international funding bodies such as the National Health and Medical Research Council (NHMRC), and the German Research Foundation. He has published more than 300 articles and book chapters in leading journals including the NEJM, Lancet and Gastroenterology. Besides his clinical and academic activities, he completed a Master in Business Administration (MBA) at the University of South Australia.



Board of Directors continued

9 Mr Liam Kelly

BA (Hons) LLB (Hons) (UQ)

Liam Kelly graduated from the University of Queensland in 1988 with honours in English literature and in law. He was awarded the university medal for law. He was awarded the Rhodes Scholarship for Queensland in 1989 and attended Magdalen College at Oxford University from where he graduated in 1991 with a Bachelor of Civil Law. He commenced private practice as a barrister in Brisbane in 1992 and continues to practise at the bar as a Queen's Counsel. His field of work is commercial litigation.

10 Ms Carmel Monaghan

B.BusComm, MBA

Ms Carmel Monaghan is Ramsay Health Care's Chief of Staff, following her appointment to this position in January 2015. In this role she is responsible for planning and directing the administrative, operational and strategic activities of the Office of the Chief Executive Officer. She is also responsible for the Company's global marketing strategy; brand management; public affairs; communications; and corporate social responsibility agenda.

Ms Monaghan joined Ramsay Health Care in 1998 and has directed the marketing strategy and communications of the Company through a time of several major mergers and acquisitions both within Australia and overseas, which has seen the Company grow from 12 facilities to over 200 and become one of the top five hospital operators in the world. During this time she has served in a variety of roles including most recently as Ramsay's Global Head of Marketing and Public Affairs since 2002, responsible for the coordination of the Company's

marketing activities across the world and ensuring they aligned with improvement in business performance. Prior to joining Ramsay Health Care, Ms Monaghan was the Manager Public Relations and Media for the Queensland Branch of the Australian Medical Association (AMAQ) for four years between 1994 and 1998. Ms Monaghan holds a Bachelor of Business (Communications) from Queensland University of Technology and completed a Master of Business Administration in 2002. In April 2016, Ms Monaghan was appointed as a Director of Générale de Santé, a publicly listed hospital operator in France in which Ramsay Health Care (UK) Limited has an interest. She was a Board member of the Veterans' Research Foundation between 1998 and 2005 and is currently a Director and Company Secretary of the Gallipoli Medical Research Foundation, a role she has held since the Foundation's inception in 2005.



Board of Directors continued

11 Professor John Pearn AO RDF MBBS

(Hons I), MD (Qld), PhD (Lond), DSc, MPhil, DCH, FRACP, FRCP, FRCPS (Glas), FRACMA, FCollTropMed (Australas), FCollTropMed (USA), FAMA, FADI, FAIM, FLS

Major General John Pearn has served as one of Australia's most senior doctor-soldiers. As Professor Pearn, he is a Senior Paediatrician at the Lady Cilento Children's Hospital in Brisbane; where, at its predecessor the Royal Children's Hospital, he has been a full-time staff clinician since 1968. His major clinical, research and teaching interests in paediatrics and internal medicine have included medical genetics, clinical toxicology, bioethics and accident prevention. Major General John Pearn also served in a second career in the Australian Defence Force, rising progressively through various senior command and executive positions in the Defence Health Service prior to being promoted to the rank of Major General. In 1998 he was appointed Surgeon General to the Australian Defence Force. He served in this role until his retirement in 2000. He is the National Patron of the Peacekeepers and Peacemakers Association, the Papua New Guinea Volunteer Rifles Ex-Members Association and the Australian Water Transport Association. He serves on several national healthcare bodies and associations; and is the National President of the Scout Association of Australia.

12 Mrs Jean Pockett

Mrs Jean Pockett, a member of the War Widows Guild since 1970, is a long standing State Council member and is a past Vice President of the Guild, a position she held on four occasions. She has attended numerous national Conferences and been the Guild's delegate for the ex-Service Organisations. Mrs Pockett has served on the Executive Council and has been a member of the social committee.

She is a member of the Greenslopes Private Hospital Ex Service Organisation (ESO) Committee where she represents the whole of Queensland. She is very familiar with the campus at Greenslopes Private Hospital where she has volunteered as a hospital visitor for more than forty years. Her volunteer work was recognised in 2012 when she was presented with a 40 year Voluntary Service Certificate by the hospital executive. She was an inaugural board member of the Gallipoli Medical Research Foundation. She is also a member of the Queensland Cricketers' Club.



11



12

Board of Directors continued

13 Ms Toni Thornton

BA, GradDip, AFI

Ms Toni Thornton is a Non Executive Director of CS Energy, Devcorp and Habitat Early Learning as well as the Chair of the Audit Committee for CS Energy. Toni was an Executive Director with JBWere working in an investment advisory capacity to large Non-Profit groups, listed executives and Ultra High Net Wealth families. Toni is the former State Manager Queensland and Executive Director of Goldman Sachs JBWere.

Ms Thornton holds a Bachelor of Arts with a Politics major and minor in Economics and also holds a number of post graduate qualifications including Applied Finance and derivatives accreditations. She is a responsible executive of the ASX, has undertaken an Accelerated Executive Management program through the AGSM and has completed the Goldman Sachs JBWere non-profit leadership program. Toni has been with Goldman Sachs JBWere and JBWere for over 17 years in Investment Advisory roles in Sydney, a Strategic Management role in Melbourne working alongside the Managing Director – PWM and in Brisbane where she was the State Manager for seven years. Ms Thornton previously sat on the board of the South Bank Corporation and the South Bank Corporation audit committee for 5 years.

14 Professor Ross Young

BSc(Hons), MSc, Dip, Clin Psyc, PhD, MAPS

Professor Ross Young was appointed Executive Dean, Faculty of Health QUT in January 2013 following seven years as Executive Director, Institute of Health and Biomedical Innovation (IHBI), QUT.

Professor Young is a Clinical Psychologist and his research interests lie in the integration of psychological and biological risk factors in mental illness. His research includes work in substance misuse, schizophrenia, anxiety disorders, mood disorders and more broadly in behavioural medicine. This includes work in pharmacogenomics and the development of personalised medicine via the use of gene chips. Professor Young has over 210 published book chapters and papers in genetic, medical, psychiatric and psychological journals.



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 Ms Anna Coles
 Adjunct. Prof Tim Daniel
 Ms Miriam Dwyer
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 Ms Carmel Monaghan
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 Prof Darrell Crawford
 Prof Ken Donald
 Dr Michael Harrison
 Prof Gerald Holtmann

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Dr Glenda Powell, AM, MBBS, FRCP (Edin), FRACP, FAFRM
 Emeritus Consultant in Geriatric Medicine and Rehabilitation, Greenslopes Private Hospital; Emeritus at Princess Alexandra Hospital; Private Practice – Medico-Legal.

Ass Prof Christopher Strakosch, MD, FRACP
 Consultant Endocrinologist, Greenslopes Private Hospital; Associate Professor and Head, Discipline of Medicine. UQ, Greenslopes Campus.

Prof Michael Whitby, MBBS (Qld), DTM & H, MPH, PhD, FRACGP, FRACP, FRCPA,
 FRC Path, FACHSHM, FAFPHM

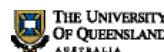
Prof Whitby is an Infectious Diseases Physician/Microbiologist. He is Professor of Medicine, University of Queensland, Greenslopes Clinical School, and Professor, and Clinical Director, CRE in Reducing Health Care Associated Infections, Institute of Health and Biomedical Innovation, Qld University of Technology.

Acknowledgements

We gratefully acknowledge the long term support and investment in our medical research by all of our supporters. 2015/16 was a year of progress... thanks to you.



RETURNED & SERVICES
LEAGUE OF AUSTRALIA
QUEENSLAND BRANCH



Discovery Partners

Our Discovery Partners come from a vast range of backgrounds but they are unified by a strong commitment to advancing research to restore lives. The Discovery Partner Honour Board is found in the heart of Greenslopes Private Hospital and acknowledges individuals and organisations that have chosen to become a part of our research team.

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& Wendy Thorsen
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 Estate of
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 Estate of Mrs Josie Clare Grinsell
 The Family of Dick
 & Elsie Hagerty
 Estate of
 Mrs Mary Lamond Hinkley
 Estate of Mr Mark Kelly
 Estate of Eugenie J MacLennan
 Mr G.D (Doug) Murray
 Estate of Shirelle Nahow
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 Estate of Mrs Lucie Spatz
 Estate of
 Mrs Gwendoline C Trimble
 Estate of
 Mr Jeffery Allan Williamson

In Memoriam

Keith and Marjorie Boyling
 Brian John Brandenburg
 Mrs Delia Helen Cameron
 Mrs Olga Clarke
 Mrs Gert Francis
 Mr John Leslie Harrison
 Mr Lou Jurasko
 Mrs Rhonda Linsdell
 The Miers Family

Mrs Gemma Minto
 Mr Jack Oliphant
 Gilbert Stanley Rider
 Col Shields
 Mr Leslie Francis Smith
 (ex P.O.W)
 Peter H Solomon
 Mr Michael Storah
 Wayne George Thomas
 Mr Paul Wilkinson
 Mrs May Young

Cyril Gilbert Testimonial Fund

The Cyril Gilbert Testimonial Fund was established to embrace the enduring spirit of one of Australia's great war heroes in our fight against cancer. The following donors have united to bring the fund to a level where it makes a truly impactful difference in cancer care:

Platinum 50K +

Greenslopes Private Hospital
 Mr Paul Ramsay AO
 The QLD Ex Prisoner of War Association
 Mr and Mrs Blair and Joy Smith and Joanne Lesley Usher

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 Mr Pat Welsh
 Dr Pretoria Bilinski
 Mrs Anne Maree Wright
 The Irving/Legerton Families

Acknowledgements continued

Volunteers

Gallipoli Medical Research Foundation values the incredible support given by the women and men who volunteer their time to support our research. We are ever grateful to the members of the Diggers Dozen volunteer group and to all Care Volunteers at Greenslopes Private Hospital. Your spirit and energy inspire us every day.

Special thanks to Joan Harris, who decided to step down as President of the Diggers' Dozen. Over the past 19 years, Joan has been a committed volunteer and first-class fundraiser, helping the group raise an unbelievable \$256,000 for our medical research.



Financial Highlights 2015–2016

GMRF has maintained a sound financial position during the 2015/16 Financial Year. Total revenue was \$3.328M with grant funds received from RSL QLD for the veteran mental health research and funds generated by the clinical trials unit representing a significant part of this total. Greenslopes Private Hospital provided significant in-kind support in the form of rent, utilities, and IT Support.

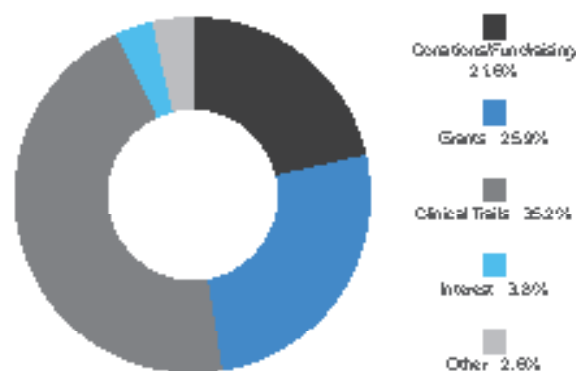
Total expenditure for the year was \$3.509M with 74.2% spent on research and clinical trial activities.

GMRF finished the year with solid cash balances and retained earnings ensuring a strong financial base for the future.

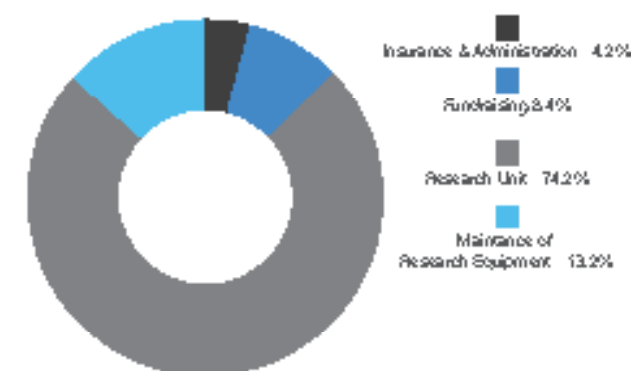
You can read the full copy of the audited financial statements here www.gallipoliresearch.com.au/About-Us/documents/GallipoliMedicalResearchFoundationLimited-GPFSRDR-2015.pdf

“We are very grateful to all our donors who gave so generously this financial year and are proud to report that once again 100% of donations received went directly to our research,” Jane O’Brien, GMRF Operations Manager.

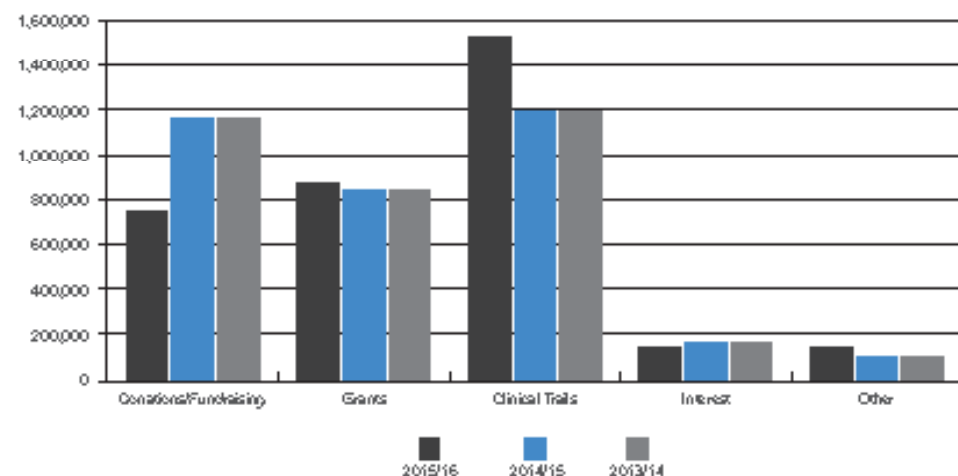
Income 2015/16



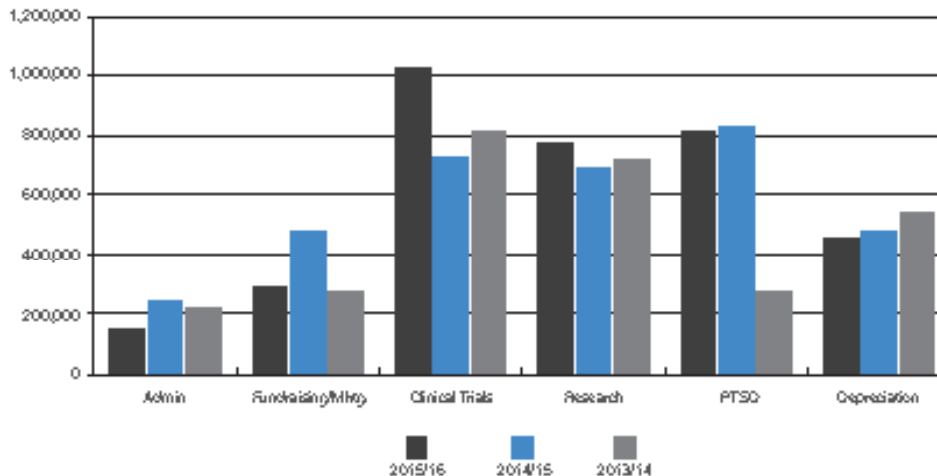
Expenditure 2015/16



Income Comparison 2014–2016



Expenditure Comparison 2014–2016



Appendix – Publications per research unit

Liver Cancer Unit

Journal (peer reviewed)

1. Jayachandran A, Prithviraj P, Lo PH, Walkiewicz M, Anaka M, Woods BL, Tan B, Behren A, Cebon J, McKeown SJ. Identifying and targeting determinants of melanoma cellular invasion. *Oncotarget*. 2016 May 9. doi: 10.18632/oncotarget.9227.
2. Tögel L, Nightingale R, Chueh AC, Jayachandran A, Tran H, Pheesse T, Wu R, Sieber OM, Arango D, Dhillon AS, Dawson MA, Diez-Dacal B, Gahman TC, Filippakopoulos P, Shiao AK, Mariadason JM. Dual Targeting of Bromodomain and Extraterminal Domain Proteins, and WNT or MAPK Signaling, Inhibits c-MYC Expression and Proliferation of Colorectal Cancer Cells. *Mol Cancer Ther*. 2016 Jun;15(6):1217-26. doi: 10.1158/1535-7163.
3. Jayachandran A, Lo PH, Chueh AC, Prithviraj P, Molania R, Davalos-Salas M, Anaka M, Walkiewicz M, Cebon J, Behren A. Transketolase-like 1 ectopic expression is associated with DNA hypomethylation and induces the Warburg effect in melanoma cells. *BMC Cancer*. 2016 Feb 22;16:134. doi: 10.1186/s12885-016-2185-5.
4. Rao SR and Jayachandran A. Epithelial-to-Mesenchymal Transition as a Potential Target for Antineoplastic Therapies. *J Cancer Clin Trials*. doi: 10.4172/jcct.1000e103

Submitted:

5. SM Liew, A Chueh, P Russell, M Walkiewicz, A Jayachandran, M Starmans, J Cebon, P Mitchell, JM. Mariadason, T John. Promoter methylation of New York-Esophageal-1 (NY-ESO-1) as a prognostic and predictive biomarker in stage III non-small cell lung cancer. *Molecular Cancer Res*, July 2016.
6. Nabel Mir, Aparna Jayachandran, Bijay Dhungel and Jason C Steel. Epithelial-to-Mesenchymal Transition: a Mediator of Sorafenib Resistance in Advanced Hepatocellular Carcinoma. *Current Cancer Drug Targets*, July 2016
7. Aparna Jayachandran, Bijay Dhungel and Jason C. Steel. Epithelial-to-mesenchymal plasticity of cancer stem cells: therapeutic targets in Hepatocellular Carcinoma. *Journal of Hematology and Oncology*, July 2016 (in revision: resubmission August 30)
8. Bijay Dhungel, Aparna Jayachandran and Jason C. Steel. Seek and destroy: Targeting Hepatocellular Carcinoma with Adeno-Associated Virus. *Drug Del.*, July 2016

In Preparation:

9. Jayachandran A, Dhungel B, Vasconcelos MYK, Mir N and Steel JC. PD-L1 as a target in cancer stem cells in hepatocellular carcinoma

10. Jayachandran A, Dhungel B, Marianna Vasconcelos MYK, and Steel JC. Epithelial to mesenchymal characterization of mouse hepatocellular carcinoma cells.

11. Jayachandran A, Dhungel B, and Steel JC. PD-L1 promotes EMT in hepatocellular carcinoma

12. Jayachandran A, Dhungel B, Steel JC. EMT and MET inducers in hepatocellular carcinoma.

Published abstract

1. DT Kamdem, JC Steel, T Wise-Draper, WM Kassing, NH Sadraei, ML Mierzwa, JC Morris Combined Radiation and PD-L1 Blockade Improved Tumor Control in Mouse Head and Neck Squamous Cell Carcinoma (HNSCC). *International Journal of Radiation Oncology Biology Physics* 94 (4), 928
1. Jayachandran A, Wang H, Dhungel B and Steel JC. Targeting cancer stem cells in hepatocellular carcinoma. *Colloquium of Metabolomics*, Las Vegas, USA (July 2016)
2. Jayachandran A. Transketolase-like 1 ectopic expression is associated with DNA hypomethylation and induces the Warburg effect in cancer cells. *Colloquium of Metabolomics*, Las Vegas, USA (July 2016)
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Liver Research Unit

Journal (peer reviewed)

- 2016 Britton L, Jaskowski L, Bridle K, Santrampurwala N, Reiling J, Musgrave N, Subramaniam VN, Crawford D. Heterozygous Hfe gene deletion leads to impaired glucose homeostasis, but not liver injury in mice fed a high-calorie diet. *Physiol Rep*. 2016 Jun;4(12). pii: e12837. doi: 10.14814/phy2.12837.

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- 2016 Omata M, Kanda T, Wei L, Yu ML, Chuang WL, Ibrahim A, Lesmana CR, Sollano J, Kumar M, Jindal A, Sharma BC, Hamid SS, Dokmeci AK, Al-Mahtab M, McCaughan GW, Wasim J, Crawford DH, Kao JH, Yokosuka O, Lau GK, Sarin SK. APASL consensus statements and recommendations for hepatitis C prevention, epidemiology, and laboratory testing. *Hepatol Int*. 2016 May 26. [Epub ahead of print]
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- 2015 Zeuzem S, Flisiak R, Vierling JM, Mazur W, Mazzella G, Thongsawat S, Abdurakhmanov D, Van Kinh N, Calistru P, Heo J, Stanciu C, Gould M, Makara M, Hsu SJ, Buggisch P, Samuel D, Mutimer D, Nault B, Merz M, Bao W, Griffel LH, Brass C, Naoumov NV; ESSENTIAL II Study Group (Crawford D). Randomised clinical trial: alisporivir combined with peginterferon and ribavirin in treatment-naïve patients with chronic HCV genotype 1 infection (ESSENTIAL II). *Aliment Pharmacol Ther*. 2015 Oct;42(7):829-44. doi: 10.1111/apt.13342. Epub 2015 Aug 4.
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Published abstract

- 2016 J Reiling, A Simpson, KR Bridle, D Lockwood, N Santrampurwala, L Britton, CHC Dejong, DHG Crawford, J Fawcett. The application of normothermic machine perfusion to bench test human donor livers. *Journal of Gastroenterology and Hepatology* 2016, In press.
- 2016 J Reiling, KR Bridle, N Santrampurwala, LJ Britton, C Campbell, DHG Crawford, CHC Dejong, J Fawcett, Lipopolysaccharides increase bile toxicity and induce severe biliary injury in an LPS enhanced ischaemia-reperfusion model. *HPB*, in press
- 2016 Hlaing P, Bridle K, Jaskowski L, Harvey W, Crawford D. Liver disease in Vietnam veterans: A comparison of veterans with and without PTSD. *Journal of Gastroenterology and Hepatology* 2016, In press
- 2015 H Wang, X Liang, L Endo-Munoz, L Weijs, X Liu, D Crawford, M Roberts. A blood-flow limited physiologically based kinetic model to characterize and predict the biological fate of mesenchymal stem cells in vivo. *Journal of Gastroenterology and Hepatology* 2015, 30(Suppl 3):11
- 2015 N Santrampurwala, KR Bridle, J Reiling, LJ Britton, LA Jaskowski, VN Subramaniam, DH. Crawford. Free fatty acid treatment reduces BMP6 signalling in AML12 hepatocytes. *Journal of Gastroenterology and Hepatology* 2015, 30(Suppl 3):10
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- 2015 L Britton, K Bridle, J Reiling, N Santrampurwala, L Wockner, H Ching, VN Subramaniam, D Crawford. Serum adipokines in response to venesection in patients with non-alcoholic fatty liver disease. *Journal of Gastroenterology and Hepatology* 2015, 30(Suppl 3):4
- 2015 Nishreen Santrampurwala, Kim Bridle, Janske Reiling, Laurence J. Britton, Lesley-Anne Jaskowski, Nathan Subramaniam, Darrell H. Crawford. Free fatty acid treatment reduces BMP6 signalling in AML12 hepatocytes. *Hepatology* 2015, 62(Suppl 1):688A.
- 2015 Janske Reiling, Kim Bridle, Catherine M. Campbell, Nishreen Santrampurwala, Laurence J. Britton, Ari J. Cohen, Darrell H. Crawford, Cornelis H. Dejong, Jonathan Fawcett. Pre-treatment with TIMP-3 prevents the development of biliary injury in an LPS enhanced ischaemia-reperfusion animal model. *Hepatology* 2015, 62(Suppl 1):616A.

Veteran Mental Health Initiative

Conference Paper (peer reviewed)

Accepted:

Romaniuk, M. (2016, November). The Relationship Between PTSD Symptom Severity and Cortical White Matter Integrity among Trauma Exposed War Veterans Utilising Diffusion Tensor Imaging (DTI). 32nd Annual Meeting of the International Society of Traumatic Stress, Dallas, Texas, U.S.A.

Romaniuk, M. (2016, September). From Solider to Civilian: Fragmented Culture and Identity of Afghanistan and Iraq Veterans - the Relationship with PTSD, Anger and Implications for Treatment. 19th Australasian Conference On Traumatic Stress, Gold Coast Australia.

Romaniuk, M. (2016, September). Comparing Microstructural Connectivity of Cortical White Matter Tracts in War Veterans with and without PTSD using Tractography. 19th Australasian Conference On Traumatic Stress, Gold Coast, Australia.

Romaniuk, M. (2015, October). From Solider to Civilian: Improving reintegration following discharge by targeting psychological adjustment to society. Presented at 24th Australasian Military Medicine Association Conference, Hobart, Australia.

Romaniuk, M. & Rosenbaum, S. (2015, September). Evidence-based evaluation of the therapeutic value of exercise for Post-traumatic Stress Disorder. Presented at the International forum for Post-traumatic Stress Disorder, Brisbane, Australia.

Romaniuk, M. (2015, April). Psychological and physiological outcomes of a healthy lifestyle program for war veterans. Presented at APS College of Health Psychologists Conference, Sydney, Australia.

Submitted:

Romaniuk, M. (October, 2016). From Solider to Civilian: 'Culture Clashes' Observed by Mental Health Clinicians and the Impact on the Reintegration Process. 25th Australasian Military Medical Association Conference, Melbourne, Australia.

Kerr, K., Romaniuk, M., McLeay, S., Khoo, A., Dent, M., & Boshen, M. (October, 2016). Re-experiencing Trauma Predicts Suicide Risk in Vietnam Veterans with Post-Traumatic Stress Disorder. 25th Australasian Military Medical Association Conference, Melbourne, Australia.

PTSD Initiative

Journal (peer reviewed)

Harvey W, McLeay S, Romaniuk M, Crawford D, Young RM, Colquhoun D, Dwyer M, O'Sullivan R, Morris CP, Cooskley G, Gibson J, Strackosch C, Thomson R, Voisey J & Lawford B. The physical and mental health status of Vietnam veterans with and without posttraumatic stress disorder and investigation of the genetics of PTSD: The PTSD Initiative study protocol. Submitted to JMVH July 2016.

Lawford B, McLeay S, Harvey W, Romaniuk M, Colquhoun D, Young RM, Dwyer M, Gibson J, O'Sullivan R, Cooksley G, Strakosch C, Thomson R, Voisey J & Crawford D. Posttraumatic stress disorder in Australian Vietnam veterans – association with multiple organ system disease. Submitted to MJA July 2016 (under review).

Bruenig D, Lurie J, Morris C, Harvey W, Lawford B, Young RM & Voisey J. A case-control study and meta-analysis reveal BDNF Val66Met is a possible risk factor for PTSD. *Neural Plasticity* 2016

Book chapter

Bruenig, Dagmar, Morris, Charles P., Young, Ross McD., & Voisey, Joanne (2016) Stress and Resilience in Combat-Related PTSD: Integration of Psychological Theory and Biological Mechanisms. In Martin, Colin R., Preedy, Victor R., & Patel, Vinood B. (Eds.) *Comprehensive Guide to Post-Traumatic Stress Disorder*. Springer International Publishing, Switzerland.

Appendix continued

Published abstract

(List below is of accepted abstracts)

Colquhoun D, Wright J, Crawford D, Harvey W, Lawford B, Romanuik M & McLeay S. Post-traumatic stress disorder (PTSD) and coronary artery calcium (CAC) score. Annual Scientific Meeting of the Cardiac Society of Australia & New Zealand (CSANZ), 2016.

Hlaing P, Bridle K, Jaskowski L, Harvey W & Crawford D. Liver disease in Vietnam veterans: a comparison of veterans with and without PTSD. Australasian Gastroenterology Week 2016.

Bruenig D, Morris C, Young RM & Voisey J. NOS1AP is associated with PTSD severity, depression, anxiety and stress. Australasian Conference on Traumatic Stress 2016.

Romaniuk M et al. Comparing microstructural connectivity of cortical white matter tracts in war veterans with and without PTSD using tractography. Australasian Conference on Traumatic Stress 2016.

Romaniuk M. From soldier to civilian: Fragmented culture and identity of Afghanistan and Iraq veterans: the relationship with PTSD, anger and implications for treatment. Australasian Conference on Traumatic Stress 2016.

Kerr K, Romaniuk M, McLeay S, Khoo A, Dent M & Boshen M. Re-experiencing trauma as a predictor of suicide risk among Vietnam veterans with posttraumatic stress disorder. Conference of the Australasian Military Medicine Association 2016.

Romaniuk M. From soldier to civilian: Improving reintegration following discharge by targeting psychological adjustment to society. Conference of the Australasian Military Medicine Association 2016.

Romaniuk M. The relationship between PTSD symptom severity and cortical white matter integrity among trauma exposed war veterans utilising diffusion tensor imaging (DTI). Annual Meeting of the International Society for Traumatic Stress Studies 2016.

NTM Research Unit

Journal (peer reviewed)

Claire Ellender, Dayna Law, Rachel Thomson, Geoffrey Eather

Safety of IV amikacin in the treatment of pulmonary nontuberculous mycobacterial disease

Respirology 2015;20:155

Rachel Thomson, Ellen Donnan, Sean Unwin

Nontuberculous mycobacterial lung disease. Time to get a grip!

Annals of the American Thoracic Society, 2015; 12 (10):1425-27

Fathia Amran, Kyle Kim, Andrew Lim, Rachel Thomson, Silvia Lee, Grant Waterer, Patricia Price

Is pulmonary nontuberculous mycobacterial disease linked with a high burden of latent cytomegalovirus?

Journal of Clinical Immunology 2016, 26(2):113-116

Gianny P. Scoleri, Jocelyn M. Choo, Lex E.X. Leong, Thomas R. Goddard, Lisa Shephard, Lucy D. Burr, Ivan Bastian, Rachel M. Thomson, Geraint B. Rogers

Culture independent detection of nontuberculous mycobacteria in clinical samples

Journal of Clinical Microbiology 2016 (Accepted manuscript posted online July 2016)

Josephine M Bryant, Dorothy M Grogono, Daniela Rodriguez-Rincon, Isobel Everall, Karen P Brown, Pablo Moreno, Deepshikha Verma, Emily Hill, Judith Drijkoningen, Peter Gilligan, Charles R Esther, Peadar G Noone, Olivia Giddings, Scott C. Bell, Rachel Thomson, Claire E. Wainwright, Chris Coulter, Sushil Pandey, Michelle E Wood, Rebecca E Stockwell, Kay A Ramsay, Laura J Sherrard, Timothy J Kidd, Nassib Jabbour, Graham R Johnson, Luke D Knibbs, Lidia Morawska, Peter D Sly, Andrew Jones, Diana Bilton, Ian Laurenson, Michael Ruddy, Stephen Bourke, Ian CJW Bowler, Stephen J Chapman, Andrew Clayton, Mairi Cullen, Thomas Daniels, Owen Dempsey, Miles Denton, Maya Desai, Richard Drew, Frank Edenborough, Jason Evans, Patricia Fenton, Jonathan Folb, Helen Humphrey, Barbara Isalska, Søren Jensen-Fangel, Bodil Jönsson, Andrew M. Jones, Terese L Katzenstein, Troels Lillebaek, Gordon MacGregor, Sarah Mayell, Michael Millar, Deborah Modha, Edward F Nash, Christopher O'Brien, Deirdre O'Brien, Chandra Ohri, Caroline S Pao, Daniel Peckham, Felicity Perrin, Audrey Perry, Tania Pressler, Laura Prtak, Tavs Qvist, Ali Robb, Helen Rodgers, Kirsten Schaffer, Nadia Shafi, Jakko van Ingen, Martin Walshaw, Danie Watson, Noreen West, Joanna Whitehouse, Charles S Haworth, Simon R Harris, Diane Ordway, Julian Parkhill & R. Andres Floto.

Population-level genomics identifies the emergence and global spread of a human transmissible multidrug-resistant nontuberculous mycobacterium.

Science 2016 – revision under review

Appendix continued

Ophthalmology Unit

Journal (peer reviewed)

De Moraes G, Layton CJ (2016) **Therapeutic targeting of diabetic retinal neuropathy as a strategy in preventing diabetic retinopathy.** Clin Exp Ophthal DOI: 10.1111/ceo.12795

Jenkins KS, Layton CJ (2016) **An eye for art? A challenge of ophthalmic body modification** Clin Exp Ophthal doi 10.1111/ceo.12758

Kawai C, Adams M, Jenkins KS (2016). **A novel ABCA4 mutation associated with a late-onset Stargardt's disease phenotype: A hypomorphic allele?** Eur J Ophthalmol (submitted Mar 2016)

Jenkins KS (2015) **A case of external ophthalmomysis caused by Oestrus Ovis in a 20 year old backpacker.** Clin Exp Ophthal 41:S1 91-91

De Moraes G, Layton CJ (2015), **The effect of glucose and insulin on the susceptibility of cultured photoreceptor-like cells to hypoxia.** Acta Ophthalmologica, 93 doi: 10.1111/j.1755-3768.2015.0711

Lim PC, Layton CJ. (2015) **Prognostic implications of imaging in atrophic macular degeneration and its use in clinical practice and clinical trial design.** Clin Exp Ophthal. doi: 10.1111/ceo.12671

Goh, A, Layton CJ (2015) **Evolving systemic targeted therapy strategies in uveal melanoma and implications for ophthalmic management.** Clin Exp Ophthal. doi: 10.1111/ceo.12688

Layton CJ (2015). **Decoupling of cellular reducing equivalents and cell survival in in vitro models of diabetic retinal neuropathy.** BMC Ophthalmology 15:175 doi:10.1186/s12886-015-0164-2

Hsu CL, Layton CJ. (2015) **Familial Disorders of the Optic Disc: Presentation of a Mother and Daughter and Review of the Literature.** Case Rep Ophthalmol 66(2)

251-259

Conference Paper (peer reviewed)

Jenkins KS, Layton CJ. (2016) Systematic Assessment of Clinical Methods to Diagnose and Monitor Diabetic Retinal Neuropathy. **European Association for Vision and Eye Research, Nice, France** (Paper Presentation)

Kawai C, de Moraes G, Jenkins KS, Goh AL, Layton CJ (2016) Effects of erythropoietin on glucose induced exacerbation of hypoxic damage in cultured photoreceptor-like cells. **Association for Research in Vision and Ophthalmology, Seattle, USA**

Layton CJ (2016) Use of the indirect ophthalmoscope and indentation in clinical practice. **Australian Vision Convention, Gold Coast, Australia** (Paper presentation)

Jenkins KS (2015) A 6-month analysis of presentations to a Queensland tertiary public hospital eye casualty department – a retrospective study. **RANZCO Queensland Branch Meeting, Gold Coast, Australia**

De Moraes G, Layton CJ (2015), **The effect of glucose and insulin on the susceptibility of cultured photoreceptor-like cells to hypoxia.** **European Association for Vision and Eye Research, Nice, France** (AWARDED: Best Presentation)

Jenkins KS (2015) A case of external ophthalmomysis caused by Oestrus Ovis in a 20 year old backpacker. **RANZCO Conference, Wellington, New Zealand**

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The Gallipoli Medical Research Foundation logo includes a representation of Simpson and his donkey, a well known and much loved icon that epitomises the sacrifice made by our brave service personnel at Gallipoli and in many conflicts since that tragic but heroic chapter in our history. The commitment, dedication and selflessness that enabled Simpson to go out, time and again, to rescue his wounded comrades encourages us to strive towards excellence in medical research so that others can benefit in this generation and generations to come.

John Simpson Kirkpatrick was born and lived until age sixteen in South Shields, Tyneside, UK. One of a family of seven including his father, Robert, a merchant navy seaman and Sarah, his mother who also worked as a domestic housekeeper, John's young life was difficult. Food was scarce, the neighbourhood was poor and the family moved frequently. His father passed away, five years after he left the navy because of injury. John was 17. He had left school at 12 to take up work as a "milk-float boy". He worked with a dappled grey pony who became his close friend; others remarking on the fact that John talked to the pony like he would another human being.

When his father died, John went to sea and on his second ship he came to Australia. He worked here for four years, on coastal shipping vessels and he tried cane cutting and horse-mounted stock work in Northern Queensland. These latter jobs each lasted only a matter of days; John found the heat and humidity intolerable. When war broke out in 1914, he was one of the first to enlist in Perth where he joined the 3 Australian Field Ambulance as a stretcher bearer.

The legend of Simpson's deeds at Gallipoli was forged in only 24 days at Anzac Cove. It is believed that he rescued and retrieved more than 300 casualties, sometimes as many as 20 in one day, many under conditions of mortal risk to himself. On 19 May 1915, while making his fourth rescue of the day under heavy fire, he was killed instantly by machine gun fire at a point known as Bloody Angel in Shrapnel Gully. His donkey, "Duffy" still carrying the wounded soldier returned alone to the Advanced Dressing Station of 3 Field Ambulance.

**Acknowledgement: Professor John Pearn AO,
Professor of Paediatrics and Child Health –
University of Queensland and Major General (Rtd.)**



Thank you!

The research conducted by the Gallipoli Medical Research Foundation (GMRF) in the past year has only been possible as a result of the generosity of our donors – thank you.

We receive no Government funding and, therefore, continue to rely completely on your support. Every gift, however big or small, will make a difference and help save lives.

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