





Dr Louisa Forbes' research is focused on the biochemistry of the neutrophil, and in particular the enzymology of myeloperoxidase. This enzyme kills microbes by generating chlorine bleach, but during inflammation it can also damage healthy tissue.

She is also interested in the oxidation chemistry of myeloperoxidase in its microbicidal activity, and how to effectively inhibit the enzyme from causing oxidative stress in disease.

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# 



## **Our People**

#### **Patron**

#### **Board of Directors**



Sir Robert Stewart KNZM



Mike Stenhouse Chairman



Simon Carey Treasurer



**Bert Govan** Vice Chair



**Nichola Hiatt** 



**Geoff Cranko** 



Mike Laney

#### Staff



Kate Russell Chief Executive



Caroline WagteveldBarbara (McKenzieAdministrFundraising ManagerManager



**Barbara Chapman** Administration Manager



Aleisha Woods Administration Officer

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## **Co-opted Board Advisers**



**Dr Ben Hudson** Chair, SAC



Professor David Murdoch



Professor Ian Wright



Ross Hutton Craig's Investment Partners

## **Objectives of the Foundation**

Over the past 57 year has helped hundred medical research is and provided more funding to the Cant

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ars, the Foundation ds of promising leas to be realised than \$25 million in erbury Region

## **Mission**

## Canterbury Medical Research Foundation is an enabler of world class Medical Research

We support medical research in Canterbury

- We aim to improve health outcomes locally in Canterbury but our impact is global
- We are focused on enabling world class medical researchers, both emerging and more experienced and thus retaining intellectual research capital here in Canterbury

# Chairman's Report



2017 will be remembered by all those closely connected to CMRF, as a year of new faces and bidding farewell to some old friends. Not only have we had significant changes at the governance level and in staff, but we have also lost some staunch and valued supporters of our work.

want to pay special tribute to four people, who represent the many faces of our supporter network. Professor Athol Mann was at the vanguard of the Foundation's development back in the 1960's and 70's. Working alongside Prof Don Beaven, Sir Laurie Govan and others, Athol forged the new Foundation and worked tirelessly to create important linkages with the wider research community. Sadly, Athol passed away late in 2017 but his legacy for CMRF lives on in the annual Athol Mann Memorial Lecture, held in May of each year.

Similarly, Ray Newton supported the Foundation's work consistently for decades, privately and through his community work within the Rotary family. Lately, as Ray's own health deteriorated, he became an important supporter of the work of our Brain Research Foundation, ensuring the financial health of the Institute through not only leaving a generous bequest but also naming the NZBRI as the sole beneficiary of his own family trust.

Names well known to many of you, Jim and Doreen Turner had a special place in the hearts of all who worked at CMRF. Quiet but loyal supporters of our work over many years, Jim and Doreen passed away within months of each other but will not be forgotten as good friends to us.

The latter part of the year saw a few changes on the Board, with Bert Govan announcing his retirement after ten years of service,



Professor Athol Wilson Mann 18 August, 1931 – 14 November, 2017

carrying on his father's legacy. At that time we also recruited three new Board members, whose skills and experience are a welcome addition to the governance team. Mike Laney—Gynaecologist, Kath Fox, Independent Director and Mark Jordan, Independent Director.

We farewelled Kimberly Ford from the administration team after eight years in the office. Kimberly joined us straight out of school and has been a solid and dependable team member. We wish her well with her future plans. We welcomed Aleisha Woods as her replacement.

Highlights of the 2017 year included: our support of Professor Stephen Chamber's Legionella research project through the Wine and Art auction which raised a record \$160,000 and the planning of a number of new donor events for 2018. Our major projects round saw a record number of female applicants and in fact, all seven projects funded have female lead researchers.

Our own Brain Research Institute had a very successful year with 17 internationally-published articles and a pleasing number of successful external funding applications. The Dementia Clinics we have committed to as a part of our work with the national Brain Centre of Research Excellence have now commenced and work is being done on establishing an international consortium to manage the large data set now gathered on Parkinson's patients world-wide.

In an increasingly competitive and crowded charity market, we continue to be humbled and grateful for the staunch and consistent support and financial contributions we receive from our friends all over Canterbury and South Canterbury. With your help, we can nurture and foster these wonderful, young researchers, to find the answers to the most pressing health problems not only for our own Cantabrian community, but indeed, the whole world.

# **CEO Report**



If you've ever questioned the value of collaboration, have a look at a termite mound. A tiny insect can do little on its own, but when numbered in their millions they become formidable architects, building structures that can reach 5 metres in height.

Such is the nature of medical research. What I've witnessed in my four years with the Foundation and its Brain Research Institute is the true power of collaboration. Research is a righteous partnership of individual donors, the funder they support, the researcher with the great idea and the patient whose life is helped or even saved through the progress research enables.

The truly satisfying thing about this work, is that we see people at their best, giving money to support science, making their ideas for better treatment manifest and running the organisations that enable the work. CMRF is a great example of people, coming together around a commonly-held value; that medical research DOES indeed, save lives.

2017 was a solid year for the Foundation which included highlights such as our record amount raised at the Wine and Art auction, being able to fund and provide encouragement to some exciting research projects, forging new relationships such as the alliance between all eight medical research foundations around New Zealand and moving the work of the NZBRI forward at a pace that sees them now, an internationally-recognised Institute.

We are now really beginning to see the results of our awareness campaign pay off with a far higher level of recognition for our work. The number of people who now recognise our brand and who are aware that we have some truly great research going on in our city,



is ever-increasing and this is telling in the growth of our donor database and the stellar success of our events, some of which are now firmly entrenched as a part of the Christchurch social calendar.

Financially, the Foundation is in great heart. With excellent results from our portfolio, thanks to the diligent management of Craigs Investment Partners and our comprehensive fundraising programme, the fund is growing closer to the \$20 million we have as our goal by 2020.

All this only happens because we have great people at every level of our organisation. From our skilled, experienced Board members, to the staff, researchers, Institutional partners and of course, our donors, everyone plays their part in ensuring the Foundation's continued success. Together, we're saving lives, not only now but for generations to come.

## **Funds Awarded in 2017**

#### **Major Projects**

Dr Khoon Lim, University of Otago, Christchurch 3D Bioassembly of Cartilage

Dr Cameron Lacey, University of Otago, Christchurch Activation Therapy RCT

Dr Martina Paumann-Page, University of Otago, Christchurch

Assay development for a protein implicated in metastatic melanoma

Ms Jennifer Crowther, University of Canterbury

Development of a bioassay to detect pre-eclampsia

Dr Nicola Scott, University of Otago, Christchurch PDE9 inhibition in Heart Failure

Dr Sarah Appleby, University of Otago, Christchurch

Role of Myoregulin in Cardiovascular Disease

Dr Patrice Rosengrave, University of Otago, Christchurch

The effect of Vitamin C on quality of life outcomes of survivors of sepsis

#### **Travel Grants**

Dr Tracy Melzer, University of Otago, Christchurch and NZ Brain Research Institute

The International Congress of Parkinson's Disease and Movement Disorders (Hong Kong, October 5–9, 2018)

#### Clinical Research Fellowship — Paediatrics

Dr Sarah Harris

Cadiovascular effects of very preterm birth at adolescence, a Longitudinal Study

### Clinical Research Fellowship — Nursing

Ms Cate McCall

Understanding the Clinical Course and Personal experience of Sepsis

#### **Grants in Aid**

Dr Jacqui Keenan, University of Otago, Christchurch

A bacterial driver of colon carcinogenesis

Dr Amy Osborne, Universty of Otago, Christchurch

Establishing the zebrafish as a model of drug use on the genome

#### Don Beaven Travelling Fellowship

Ms Seh Ling Kwong

Speaker at the Annual Rose Centre Stroke Conference 2017

#### **Wine and Art Auction Recipient**

Professor Stephen Chambers, University of Otago, Christchurch

Protecting Gardeners from Legionnaires' Disease

## Summer Studentships Otago University, Christchurch

Finding the reservoir of Legionella longbeachae

Eye movement symtoms in Huntington's disease: evidence from a large international collaboration

Direct Oral Amoxicillin Challenge Study of Low Risk General Medical Hospital Inpatients

HLA-Typing of Patients with Severe Adverse Drug Reactions

Sheep as a pre-clinical model for human gene therapy

Role and therapeutic potential of myoregulin in cardiovascular disease

## Summer Studentships Canterbury University

Characterising the active site of nagA" an enzyme critical for bacterial sialic acid catabolism

The captain of the men of death: how does Streptococcus pneumoniae cope with hydrogen peroxide

Controlling dose parameters for citric acid cough testing

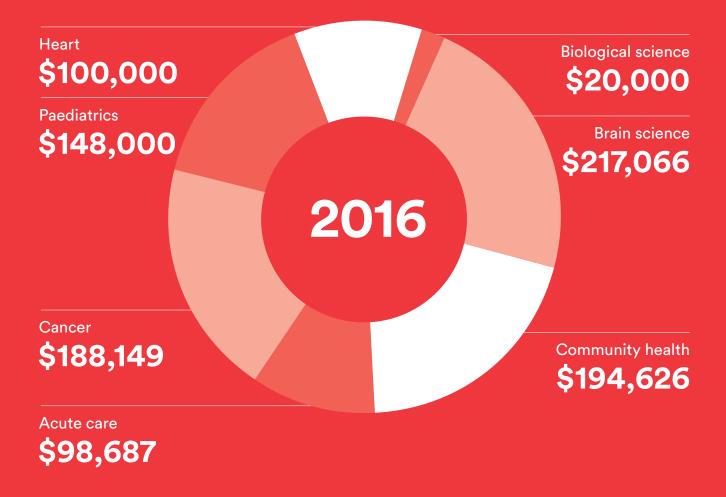
Neuomuscular Electrical Stimulation for Swallowing Rehabilitation: A Systematic Review

Ultrasound assessment of swallowing

Neurodevelopmental Outcomes of Adolescents born to Opioid Addicted Mothers in Methadone Maintenance treatment during Pregnancy

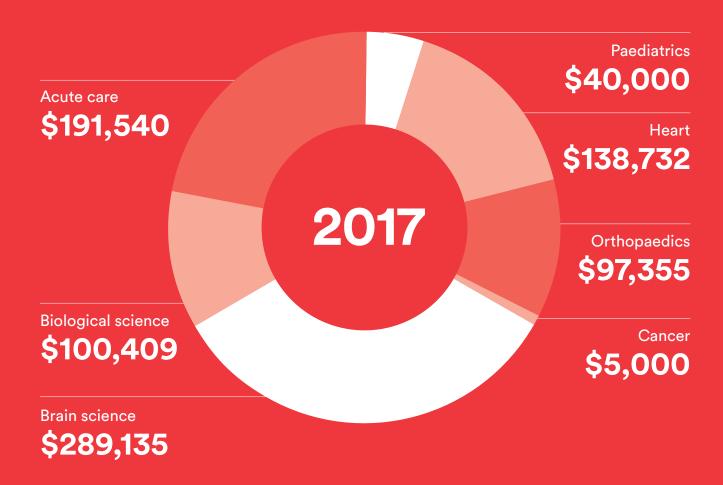


## **Grants Awarded (By Subject)**



\$1,581,516 awarded

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\$1,269,566 awarded

# **Fundraising report**



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# Year on year, the fundraising efforts of the Foundation and the NZ Brain Research Institute are more richly rewarded by our loyal and generous donors and corporate partners.

ur suite of special events goes from strength to strength with the Wine and Art Auction setting new records every year. 2017 was a stellar year for this event with more than \$160,000 raised on the night and some very high values attained for the artwork on offer.

As always, we wish to recognise the efforts of the Wine and Art Auction committee who selflessly dedicate many hours to procuring the auction items, organising the room decoration and working alongside our own fundraising team to ensure the night is enjoyed by all.

NZBRI events continue to grow in popularity with the Opera Meets Art event now firmly established on the Christchurch social calendar. It was a special night of popular opera tunes performed expertly by Rachel Doig, Eleanor Sim and the members of the Christchurch Opera Club, complemented by an impressive array of fine art from close friends of the Foundation such as Philip Beadle, Lew Summers and Lorraine Natusch to name just a few.

The Friends of the BRI (FBI) are an incredible group of people, with boundless energy and a real commitment to helping us to fund Brain Research in Canterbury. Their events just keep getting better and better every year and we are humbled by their efforts. Special thanks to Professor Ivan Donaldson for the ongoing support provided to the Institute through the sales of his memoir "The Truant from Medicine".

2017 was a slightly quieter year for bequest income for the Foundation, after three years of very high contributions but we



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## "The Friends of the BRI (FBI) are an incredible group of people, with boundless energy and a real commitment to helping us to fund Brain Research in Canterbury."

nevertheless returned a healthy sum and as always, we are so grateful to the individuals and families who choose to extend their giving beyond their lifetime with lasting gifts of this kind.

Our advertising campaign continues to show great results with anecdotal reports of our billboards and social media posts being seen by an ever-widening audience. Whilst keeping up our profile and expanding our reach the campaign has had a definite impact on giving with increased online donations and a growing donor database. Thank you to all who support our work and Cantabrian research through their generous gifts.

"The gap betwe knowledgeofc what I see clini me humble. It is that my resear I search for ans

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en my in illness and cally, keeps s the gap ch fills as wers."

## **Completed Grants**

#### Dr Ning Dickerhoff

## Oxidative Stress in the pathology and treatment of Cystic Fibrosis

"While we have not been able to establish an assay for measuring oxidized calprotectin in plasma, we have investigated whether oxidation occurs after the release from activated neutrophils or inside the neutrophil. The study produced an interesting result that warrants further investigation."

### Dr Beverley Burrell

# Life Balance—A pilot intervention study with older adults with long term conditions

"The extent to which the older adults with long term conditions engaged in the practice of mindfulness was unexpected, though encouraging about the usefulness of the intervention.

As with other interventions delivered to groups, the satisfaction survey results found that the social aspects were highly appreciated by participants."

#### Dr Logan Walker

## RNA isoform profiling of breast cancer susceptibility genes

"Our results showed differences in BRCA1 and BRCA2 gene expression patterns between tumour and matched normal tissue. Such differences are novel and may help us better understand why some people are more vulnerable to developing breast cancer than others. We are very grateful to the Canterbury Medical Research Foundation for funding our project."

Dr Phil Bagshaw et al.

# Pilot Study of methods for assessing unmet secondary healthcare need in New Zealand

"Our pilot study suggests there is sufficient unmet secondary healthcare need in New Zealand to merit a national survey."

Dr Anitra Carr

## Vitamin C requirement in severe infection

"This information will be used to inform vitamin C researchers and clinicians of the appropriate sample handling and processing conditions for vitamin C analysis of clinical samples."

### Dr Amy Scott-Thomas

# Early Detection of bacteria in the lungs using a non-invasive breath test

"Being awarded this grant in aid meant I was able to complete all my current objectives towards the development of a breath test for P. aeruginosa. I can now plan future experiments based on these results."

## Dr Kenny Chitcholtan

The effects of resveratrol derivatives on VEGF, IL-6, IL-8 and NF-kB in ovarian cancer in vitro and in vivo studies

Dr Kristin Gozdzikowska

Reliability, validity and clinical application of temporal and amplitude analyses using pharangeal high resolution manometry

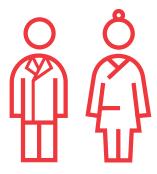
"Our aim was to refine the clinical assessment of swallowing impairments. This was done by investigating a technique called High Resolution Manometry (HRM), which measures pressure in the throat when swallowing. This work has led to the publication of a manuscript in an esteemed international journal; three more are in development. We greatly appreciate the funding support provided by CMRF"

Dr Andree Pearson

Mitochondria and Aging



# Scientific Assessment Committee — Report



The CMRF continues to fund high quality research that contributes to improvements in our population's health. The Scientific Assessment Committee (SAC) has a key role in maintaining this high standard by reviewing and ranking applications so that the most promising projects are prioritised for funding.

The committee consists of 10 health researchers, representing the University of Otago, Christchurch (UOC), the Canterbury District Health Board, the University of Canterbury (UC) and the NZ Brain Research Institute. SAC members have a variety of professional backgrounds including mental health, laboratory science, clinical medicine, neuroscience and biostatistics and jointly ensure that all applications are carefully assessed for scientific quality and health impact.

In 2017, there were 17 applications for major project grants, of which seven were funded. The funded projects covered a diverse range of topics including mental health, obstetrics, oncology, musculoskeletal disease, and cardiovascular disease.

In addition to the project grants, the SAC assessed four applications for clinical fellowships, of which two were awarded: one in nursing and one in paediatrics. Applications for grants in aid (which support existing projects or are used to generate preliminary data or conduct feasibility studies for subsequent projects) were also assessed and two were awarded.

Three SAC members resigned in 2017: Jacqui Keenan, Leigh Thompson and Paul Gardener. These committee members have all given generous amounts of time and expertise, but Jacqui's contribution should be singled out for special mention as she had



## "In addition to the project grants, the SAC assessed four applications for clinical fellowships, of which two were awarded: one in nursing and one in paediatrics."

been on the SAC for many years. These colleagues have been replaced by three new committee members: Gabi Dachs from the Department of Pathology (UOC) will bring expertise in cancer biology, biomedical science and clinical research; Ren Dobson from the School of Biological Sciences at the University of Canterbury who has specialist knowledge of protein chemistry and cell signalling; and Jenny Jordan from the Department of Psychological Medicine (UOC) who is a psychologist with expertise in conducting randomised clinical trials for serious mental disorders. These new members will no doubt bring important new insights to the assessing process and I am looking forward to working with them.

Margreet Vissers has stepped down as SAC chair and I was honoured to be elected as her replacement; she will remain a member of the SAC. Margreet will be a tough act to follow as chair but I am confident that the SAC's rigorous reviews of funding applications will continue

## Dr Ben Hudson

"The heart of our is to improve the in New Zealand. grant has given u to do this. We car more together."

Annual Report 2017

# research effort health of people The CMRF s the means n do so much

# **Acknowledgments**

#### **Strategic Partners**

University of Otago, Christchurch

**University of Canterbury** 

Canterbury District Health Board Health Precinct Advisory Committee

Emergency Care Foundation

Cure Kids

Medical Research Foundation Alliance

Batten Disease Research Network

Pacific Radiology Group

#### **Trusts and Foundations**

Rachel G. Boydell Charitable Trust

Arnold Cox Charitable Trust

Margaret Hutchings Charitable Trust

McNeill Charitable Trust

Carlisle Trust

Carsin Trust

D.S. & A.D. Laird Family Trust

R. G. Bell Charitable Trust

Sir Lawrence & Lady Govan
Charitable Trust

**Orr Family Trust** 

S J Charitable Trust

Burrows Bros Charitable Trust

Trembath Trust

W. H. Travis Trust

### **Event Major Sponsors**

Pegasus Winery

Pacific Radiology Group

**Charles Wiffen Winery** 

Rydges Latimer Canterbury

**Craigs Investment Partners** 

Christchurch Golf Club

Christchurch Art Gallery

#### Committees

## Scientific Assessment Committee

Margreet Vissers (Chair),
Ben Hudson, Lee Thompson,
John Dalrymple Alford,
Richard Jones, Chris
Frampton, Richard Gearry,
Richard Porter, Jenny
Jordan, Jacqui Keenan,
Paul Gardner

#### Friends of the NZBRI

Ivan Donaldson, Mel Brew (Chair), Gabrielle Tasman, Sharon Reece-Thomas, Liz Barry, Doug McCaul, Robyn Gillespie

#### Wine and Art Committee

Mel Brew, Julie Hutton, Sue Stenhouse, Janette Borthwick, Ron Wright, Shona Ross Annual Report 2017

#### **Donors Over \$500**

**Orr Family Trust** 

Alison Grimshaw

**Antony Courage** 

B. A. Robinson

Richard and Alison

Ballantyne

J.R.M. and S. Barker

L. P. Bodger

G. S. Cocks

Frank Dickson

Isobel Hale

Kevin & Joanna Hickman

Loma Johnson

Malcolm & Margaret

Johnson

Pam & Tony Koller

Robin & Annette Mann

John & Margaret Palmer

Mike Scott & Kaye Rayner

**Bridget Robinson** 

Graeme & Fay Sim

Hilary & David Stock

Gabrielle Tasman

& Ken Lawn

Edith Tripp

Steve Walker

Virginia Williams

## Service Clubs and Professional Associations

Inner Wheel Avonhead

Inner Wheel Ōtautahi

Lions Club Ellesmere

Rangiora District Lioness Club

LIUTIESS CIUD

Rotary Club Avonhead

**Rotary Club** 

Christchurch South

U3A Kate Sheppard

**U3A Rolleston** 

#### Estates

Alan & Marjorie Nightingale

Allan Trembath

**Geoffrey Wood** 

Thelma Overend

Eric Galt

Rona Wright

J. Smellie

Joy Alice Roberts

Henrica Josina Lamers

**Edith Muriel Walke** 

N. M. McIlroy

F. R. Blackmore

J. A. Strassmeyer

#### **Businesses**

Rydges Latimer Christchurch

**Charles Wiffen Wines** 

Pegasus Bay Wines

**KPMG** 

**Craigs Investment Partners** 

Our thanks also go to all the generous donors to the Wine and Art Auction

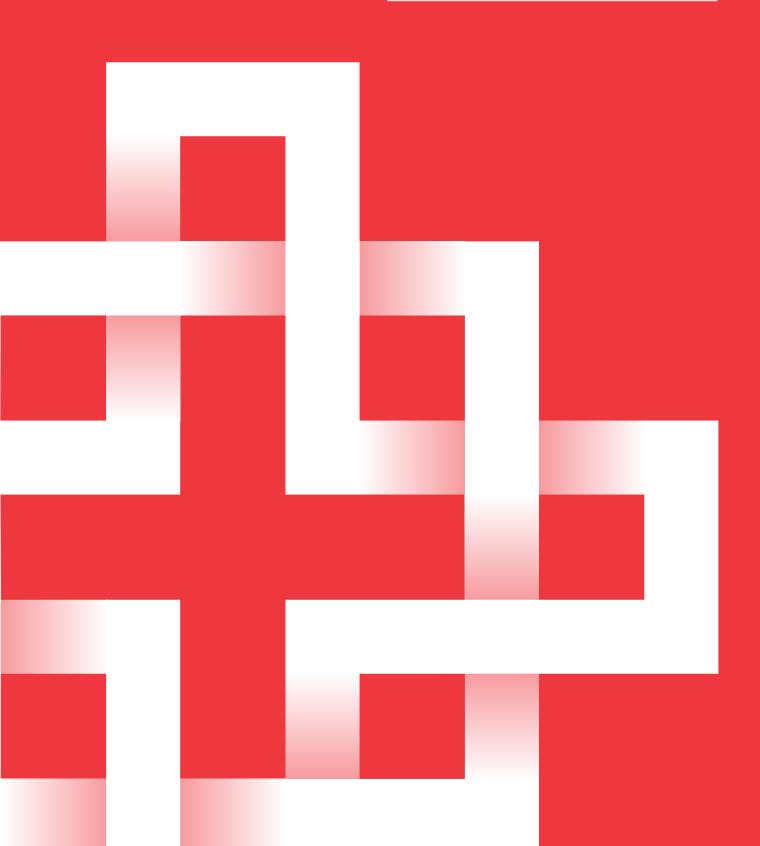
# **Disclaimer**

This summary financial report and the graphics embedded within the proceeding pages, have been authorized for issue by the Chair of the CMRF Board Michael Stenhouse. The results presented in this summary have been extracted from the audited financial statements for the year ended 31 December 2017, which is available, by request, from the CMRF Office, or online at our website www.cmrf.org.nz

Canterbury Medical Research Foundation



# Financial Report —2017



# Financial Highlights

The CMRF's Investment portfolio, which is overseen by the Finance committee, is managed by Craigs Investment Partners with a Balanced asset allocation and is diversified as follows:



Over the last five years the portfolio has grown at a rate of 9.72% gross per annum.

For the last 12 months the gross income yield has been 3.96% (\$492,000).

Craigs Investment Partners, in addition to producing full quarterly reports, has their representative Ross Hutton attend all Finance Committee meetings and regularly attend the Foundation's Board meetings in a Co-opted advisor capacity.

# 2017 Overview



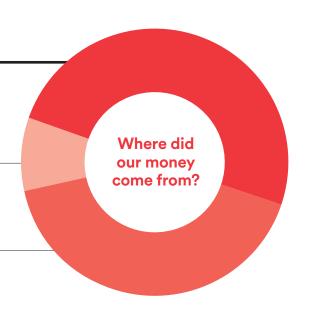
\$733,123

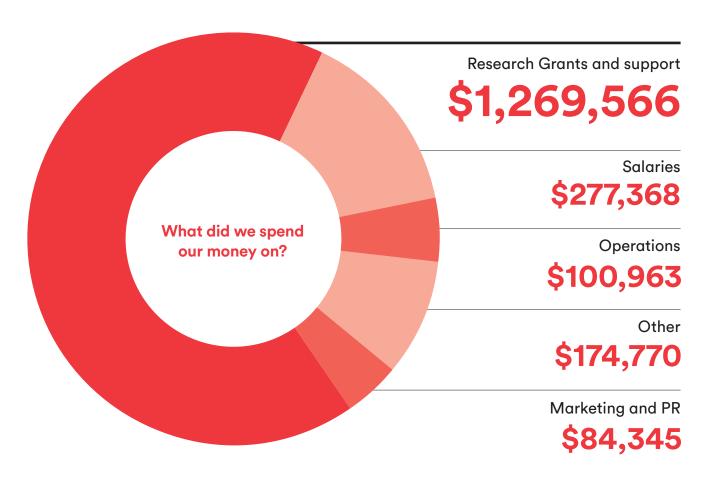
Other

\$128,466

Investments

\$610,876



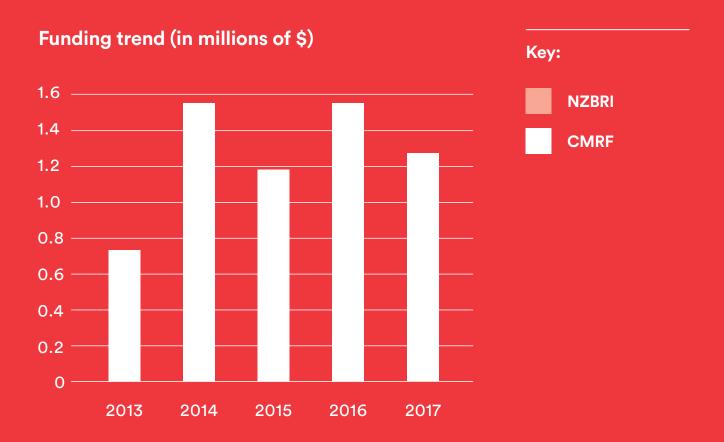


Where did our money come from?	2016	2017
Donations and Bequests	\$2,417,152	\$733,123
Investments	\$698,951	\$610,876
Other	\$104,300	\$128,466
Total revenue	\$3,220,403	\$1,472,465
What did we spend our money on?	2016	2017
Operations	\$105,684	\$100,963
Salaries	\$293,442	\$277,368
Research Grants and support	\$1,581,516	\$1,269,566
Marketing and Public Relations	\$57,349	\$84,345
Other	\$147,676	\$174,770
Total expense	\$2,185,667	\$1,907,012

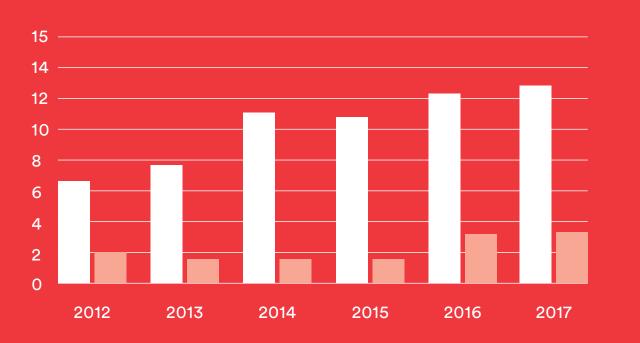
#### Note

There are significant challenges in fairly reflecting operational costs for many not for profits, including CMRF. We are keenly aware of the need to keep administrative costs at a reasonable level, but must also maintain all the usual office and assessment systems that allow us to fulfill our purpose, all of which carry a cost. We are confident that we run the organisation efficiently and without waste and all supporters can be assured the majority of their generous donations get directly to research support.

# **Trends**



# Growth in our portfolios (in millions of \$)

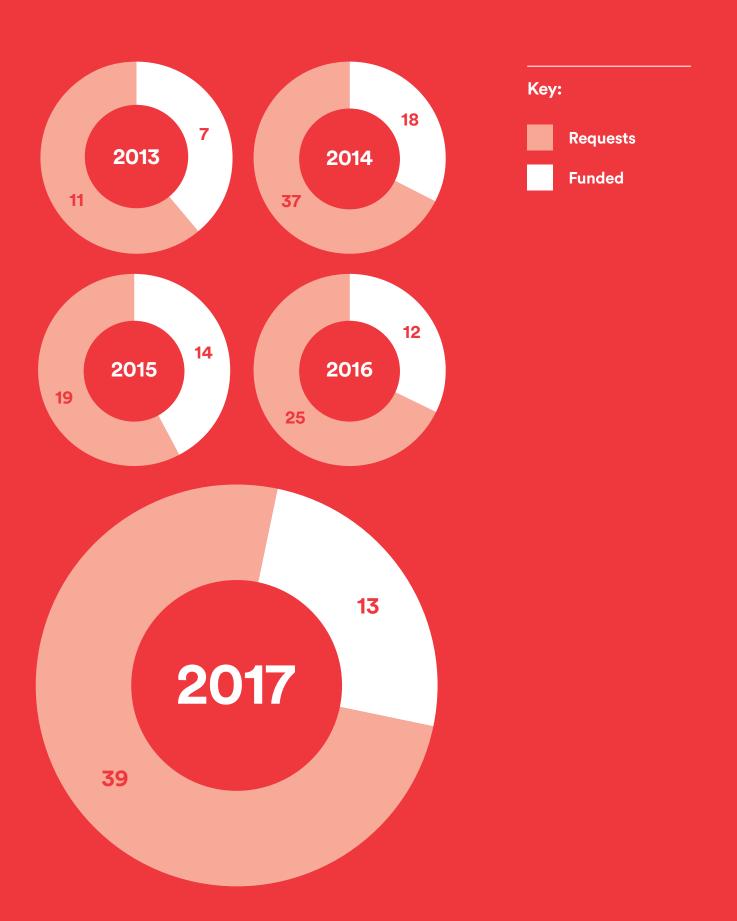


# **Funding trend**

2013	\$747,964
2014	\$1,557,824
2015	\$1,192,523
2016	\$1,581,516
2017	\$1,269,566

Growth in our portfolios	CMRF	NZBRI
2012	\$6,716,127	\$1,998,910
2013	\$7,679,485	\$1,475,211
2014	\$11,101,154	\$1,366,051
2015	\$11,005,672	\$1,534,145
2016	\$12,177,667	\$3,122,208
2017	\$12,497,945	\$3,313,987

# Requests vs. Funded



Requests vs. Funded	Requests	Funded
2013	11	7
2014	37	18
2015	19	14
2016	25	12
2017	39	13

# **Statement of Financial Position**

Assets	2016	2017
Investments	\$14,538,851	\$14,836,430
Bequests due	\$0	\$0
Other	\$113,605	\$93,506
Total assets	\$14,652,456	\$14,929,936
Liabilities	2016	2017
Unexpended project grants	\$1,405,510	\$1,258,774
Other	\$261,810	\$35,061
Total liabilities	\$1,667,320	\$1,293,835
Total Fauity	\$12 Q85 135	\$13 636 101







# **Donate today**

Visit online us: cmrf.org.nz

1/230 Antigua Street Christchurch 8011 03 353 1240