

# 51st Annual Review 2018/19

A leading medical  
research charity providing  
vital funds for early stage  
medical research in Scotland

Making a difference in medical research  
Helping early career researchers

**Today's research ~ Tomorrow's health**

# 2018/19 at a Glance

## 18

Small Pilot Grants  
£0.3m

## 2

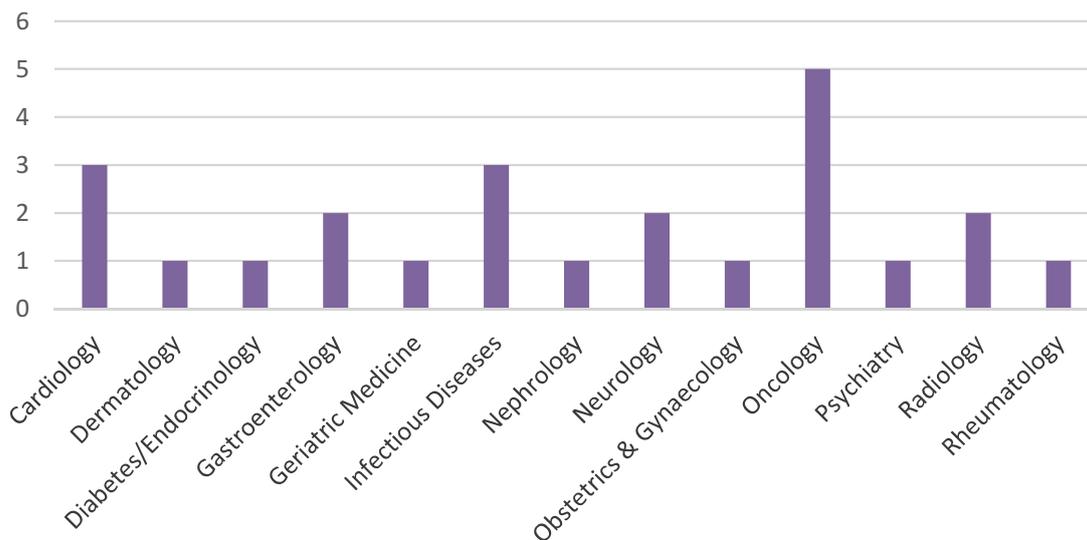
Large Pilot Grants  
£0.1m

## 4

PhD Scholarships  
£0.4m

Grants were across the full range of medicine and healthcare

No of  
Grants  
2019

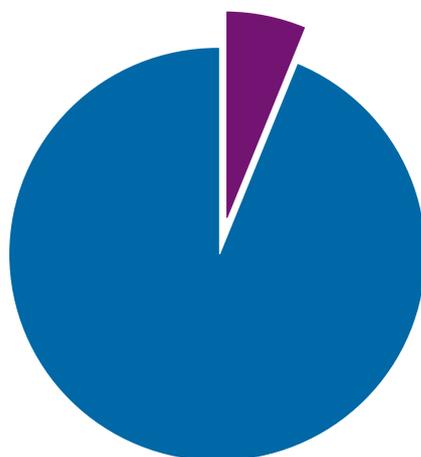


## 6%

### Administration Costs

6% of Income for the year  
and 5% over the last 10 years

Income  
Administration



**Mr Samuel Ng**

(University of Glasgow) was awarded  
The Sir Roddy MacSween Medal

**Dr Neal Millar**

(University of Glasgow) was awarded  
The Sir Robin MacLellan Travel Award

**Dame Anna Dominiczak**

(University of Glasgow) was awarded  
The Lady Margaret MacLellan Award

## Survey (2009-14)

- Carried out annually to determine the achievements of pilot grants which were awarded five years previously
- Nearly **50%** of all pilot grants received further external funding
- External funding was **11 times** the total of all grants awarded
- Small pilot grants of **£2.1m** attracted further external funding of **£34m**
- Large pilot grants of **£1.6m** attracted further external funding of **£7m**

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# Chairman's Comments



"The original purposes of our founding fathers have never been more important, namely to improve the health of the people of Scotland."

The period under review saw our charity complete the first year of its second half-century in rude health. Our four regional committees continue in their tireless efforts to support cutting-edge research by investigators in their localities. The original purposes of our founding fathers have never been more important, namely to improve the health of the people of Scotland.

Our Royal Patron's enthusiastic encouragement is hugely valued, and it is gratifying to see the Princess Royal Tenovus Scotland Medical Research Scholarship Scheme so well established. Our aim - to raise financial support to appoint one new high-quality PhD scholar each year - has been more than met and we will now see each year at least one scholar graduating with a doctorate from our academic centres of excellence with skills to pursue further progress in their chosen field. We can confidently expect that many of the future leaders of clinical and laboratory research will owe some of their initial success to opportunities provided by Tenovus Scotland.

I have long held the view that the nature of our charity - endeavouring to promote research across the whole spectrum of disease - is on the one hand a strength and on the other something of a handicap. Most medical research charities have a narrow focus on diseases of specific organ systems or on cancer. They do excellent work which is, to a great extent, given financial support from patients (and their relatives) grateful for medical and surgical care received in those areas. Without such targeted fundraising, our supporters have to work extra hard, but the result is that we can often fund research

in less fashionable areas which command a lower profile.

Our ability to support new research activities is limited only by the funds available, there being no shortage of excellent science. This year, a National Marketing and Fundraising Committee has been formed to develop and co-ordinate this activity across the four regions, learning from best practice and seeking new sources of funds to underpin the work of Tenovus Scotland. If any readers of this Annual Report have ideas or expertise in this area, we would very much welcome their input or involvement - please help us do even more in the years to come.

It was a particular pleasure to award the first Sir Roddy MacSween Prize and Medal, founded to honour the memory of my predecessor as National Chairman of Tenovus Scotland. Sir Roddy would have been, I believe, proud to see himself commemorated by a prize to the best student of pathology at his 'home' of the University of Glasgow, and delighted to see such a worthy (and international) recipient in Ms Antonia Mentel, from Dresden.

I never fail to marvel at the dedication of all our committees, National, Regional and Scientific Advisory. Some members are from medical or scientific backgrounds, but many others are lay people who are motivated to 'do their bit' for the benefit of those whose health may be helped by medical advances. The Regional Secretaries give meticulous support to their committees and the whole organisation could not be more fortunate in our General Secretary, Iain McFadzean and our National Treasurer, Francis McCrossin.

I must, once again, pay tribute to Thia Begg, whose work in monitoring the progress and success of the recipients of our grants is so important to the good governance of the charity. We are delighted that Thia has agreed to become an Honorary Vice-President. As always, Tenovus Scotland is enormously grateful to the President and Council of the Royal College of Physicians & Surgeons of Glasgow for providing office space and other support.

My final thanks must go to all those who have supported the work of Tenovus Scotland in the last year through individual donations, donations from charitable trusts and other sources such as legacies. Without such generous support, Tenovus Scotland could not continue its mission to fund ground-breaking medical research in Scotland.

I have been hugely privileged to be Chairman of the National Committee for the past seven years but felt it was time to return to the back benches at the end of 2018. I am most grateful to Professor Ken Paterson for agreeing to be Acting Chairman pending the appointment of my successor at the Annual General Meeting in June 2019.

**Professor Andrew Calder MBE**  
National Chairman

## Donors

**Our sincere thanks to all our donors**

Mr & Mrs Cochrane  
Mrs G Smith  
The Ian Sunter Charitable Trust

# Research Grants and Awards

## Pilot Grants (up to £20,000)

### Edinburgh

Ross Dobie	Gastroenterology	Using single-cell RNA sequencing to identify new therapeutic targets to treat patients with liver cirrhosis
Elaine Emmerson	Oncology	Can gene changes inform us of how to regenerate damaged salivary gland following radiation therapy?

### Grampian

Fiona Clegg	Oncology	Using human liver cell culture to investigate if Fibroblast Growth Factor 21 influences liver cancer development
Maria Virtudes Solano Collado	Infectious Diseases	Use of metals by cells of the immune system to kill Salmonella Typhi, the cause of typhoid fever
Fraser Collins	Rheumatology	Identifying proteins on the surface of cells that can repair damaged cartilage
Sergio Dall'Angelo	Radiology	Pre-clinical imaging of prostate cancer using a novel imaging agent for Positron Emission Tomography
Dana Dawson	Cardiology	Is there a reduced capacity to generate energy in the hearts of breast cancer patients who receive cancer treatment (which is known to adversely affect the heart muscle)?
David Gamble	Cardiology	Pilot study into whether we can predict heart disease early in women with history of a severe high blood pressure disorder of pregnancy?
Sarah Walsh	Oncology	Cannabidiol based protection against chemotherapy induced heart damage
Cherry Wainwright	Cardiology	Understanding the link between dietary zinc deficiency, obesity and damage to the ageing heart following a heart attack

### Strathclyde

Brian Hudson	Diabetes/Endocrinology	Understanding how different types of fat regulate metabolism to help develop better treatments for Type 2 Diabetes
Fiona Kerr	Neurology	Can blocking Keap1-Nrf2 binding protect nerve cell connections as Alzheimer's Disease develops
Vânia Moreira	Dermatology	Innovative biopolymers with improved antimicrobial efficacy that limit bacterial infection and promote skin regeneration in chronic wounds
Janet Scott	Infectious Diseases	Establishing the right dose for the treatment of Lassa Fever and setting up a system to test drugs for other dangerous epidemic viruses
Maria Tumelty	Gastroenterology	Simultaneously investigating salivary levels of 188 immune proteins using a novel proximity extension assay to determine if oral granulomatous inflammatory diseases may be early manifestation of gut Crohn's disease

### Tayside

Mark Baxter	Oncology	Understanding the reasons for exceptional response to chemotherapy in oesophageal adenocarcinoma – a springboard to develop individually tailored cancer treatment
Andrew Evans	Radiology	Could contrast enhanced digital breast tomosynthesis be used to monitor patient taking neoadjuvant chemotherapy for breast cancer
Francisco Inesta-Vaquera	Geriatric Medicine	Preclinical model for diseases of old age

"As an early career researcher who is in the first stages of setting up a research group the award I received from Tenovus Scotland was fundamental in me addressing a crucial research question in the field and will lead to the generation of data that will open up a plethora of avenues for my research group as it grows and evolves."

Elaine Emmerson

"This award has given an invaluable boost to my professional confidence; it has helped me recognise my potential and drive forward my ability to develop an idea into a deliverable research project. In addition, the funded project will potentially set the basis for future fellowships/grant applications advancing my career towards independence, showcasing the research being conducted at the University of Aberdeen and provide an opportunity to work with other researchers in my own field and beyond."

Maria Virtudes Solano Collado

"Being awarded the grant by Tenovus Scotland has meant that I have been able to use cutting-edge technologies in my research that would not have otherwise been possible."

Fraser Collins

"This grant has enabled us to gain pilot clinical data on an exciting new breast imaging technique, contrast enhanced mammography."

Andrew Evans

## Large Grants (up to £100,000)

### Tayside

Colin Murdoch	Obstetrics & Gynaecology	Understanding how antioxidants and oxidants contribute to preeclampsia
Huan Wang	Nephrology	Using NHS data to understand what factors affect recovery of kidney function after kidney injury caused by medicines or other illnesses

## The Moulton-Barrett Medical Research Scholarship (3 year PhD scholarship)

### Grampian

Inga Schmidt	Neurology	Immunotherapy for Parkinsons based on patient extracted Lewy bodies
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## The Princess Royal Tenovus Scotland Medical Research Scholarship (3 year PhD scholarship)

### Tayside

Laureano de la Vega	Oncology	Characterisation and validation of new drugs to target tumours that respond poorly to chemotherapy
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## Other Medical Research Scholarships (3 year PhD scholarship)

### Tayside

David J Hughes	Infectious Diseases	A molecular biology investigation into how the antiviral protein ISG15 hinders childhood virus infections associated with respiratory disease (e.g. mumps, measles, parainfluenza viruses)
Stephen Martin	Psychiatry	The mechanism of action of novel rapidly acting antidepressants

## The Sir Robin MacLellan Travel Award

### National

Neal Millar (University of Glasgow)	Awarded annually for the most outstanding Final Report on research work for the year. Dr Millar's research was 'Danger signals in tendon disease'
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## The Sir Roddy MacSween Medal

### Strathclyde

Samuel Ng (University of Glasgow)	Awarded annually to an undergraduate, specifically a medical student with exceptional performance in pathology in the University of Glasgow Medical School
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## The Lady Margaret MacLellan Award

### Strathclyde

Dame Anna Dominiczak (University of Glasgow)	Awarded biennially to the individual, or group of individuals, who are actively engaged in medical research in Scotland and have contributed most in a particular field in recent years. This year's field was 'Precision medicine'
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As a newly appointed lecturer, my Tenovus Scotland pilot grant will be incredibly valuable in supporting my research, generating key preliminary data, and facilitating the development of my long term research vision.

Brian Hudson

"This award is allowing us to start work in the field of cardio-oncology. Today's cancer patient is tomorrow's cardiology patient because of the significant cardio-toxic effects that a large number of chemotherapy drugs have. We will look at early ways of detecting any such cardio-toxic effects during the course of chemotherapy in breast cancer patients – rather than after the chemotherapy has finished. This may allow adjustment of treatment regimens in the future in an attempt to mitigate the cardio-toxic side effects."

Dana Dawson

"Support from Tenovus Scotland has been invaluable in kick-starting resources for my new lab, attracting PhD and Erasmus MSc students to join and enabling me to build my independent research on dementia in Glasgow."

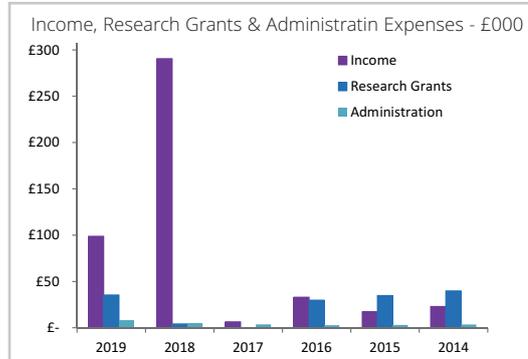
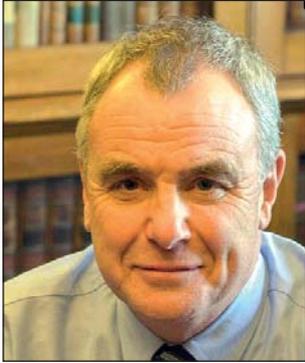
Fiona Kerr

"Receiving Tenovus funding within a year of moving to Dundee (and Scotland) will help enormously in launching my new lab, establishing a foundation of research into preeclampsia and providing an opportunity for developing new collaborations for grant submissions."

Colin Murdoch

# Edinburgh

"We intend to appoint a Scholar under The Princess Royal Tenovus Scotland Medical Research Scholarship Programme, with the aim to start this prestigious award later in 2019."



I am delighted to report that this has been a productive year for Tenovus Scotland, Edinburgh. We intend to appoint a Scholar under The Princess Royal Tenovus Scotland Medical Research Scholarship Programme, with the aim to start this prestigious award later in 2019.

## Applications Received and Project Reports

We funded two applications, one entitled "Can gene changes inform us of how to regenerate damaged salivary glands following radiation therapy?" and the other "Using single-cell RNA sequencing to identify new therapeutic targets to treat patients with liver cirrhosis." These totalled £38,246.

We received two Final Reports, both of which were assessed favourably.

## Income Generation and Events

We have been fortunate in the number of donations we have received; this has allowed us to look actively at funding an increased number of research projects in coming years.

## Committee and Thanks

We have expanded our local Committee with Professors William McNee and Alan Cumming joining the group. We are also intending to expand our non-medical membership of the group in order to support increased fundraising.

**Professor Derek Bell OBE**  
Chairman

## Edinburgh Committee

AS AT 31 MARCH 2019

**Chairman** Professor D Bell OBE

**Hon Treasurer** Mr JD Watson

### Committee

Professor AA Calder MBE,  
Professor A Cumming, Miss FVN Din,  
Dr S Farrington, Dr S Fegan, Dr T Mackay,  
Professor W MacNee

## Edinburgh LSAC

Professor D Bell OBE, Professor AA Calder MBE,  
Ms FVN Din, Dr S Farrington, Dr T Mackay,  
Mr JD Watson

## Donors

### Our sincere thanks to all our donors

Anonymous  
Mrs J Arthur  
Professor IAD Bouchier  
Mr RS Ford  
Dr & Mrs P Gordon  
Ms S McGregor  
Mrs AH Neale  
Mrs R Stewart  
Miss JSC Stuart  
Sir Pat Forrest Dining Club  
Edinburgh Gynaecological Cancer Fund  
Imlay Foundation  
WJ Underwood Charitable Trust

## Edinburgh Regional Secretary

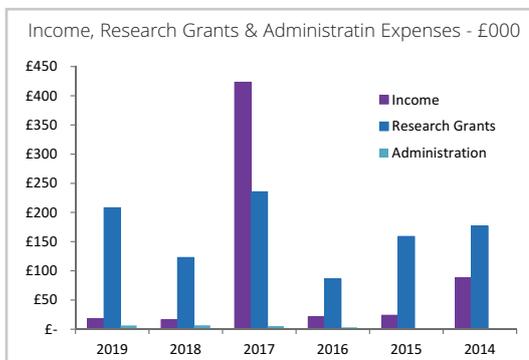
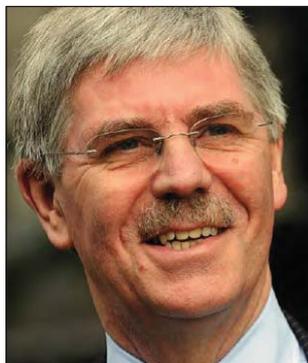
**MRS K RICH**

Tel: 0131 332 8502

Email: [edinburgh.secy@tenovus-scotland.org.uk](mailto:edinburgh.secy@tenovus-scotland.org.uk)

# Grampian

"Fourteen applications were appraised in 2018 of which eight were selected for funding (totalling approximately £130,000)."



Tenovus Scotland is delighted to continue to fund innovative research projects by early career researchers in the universities of the North and North East of Scotland. The Grampian Committee has met four times over the year in the Aberdeen Medico-Chirurgical Society premises.

## Applications Received and Project Reports

In the last year we have returned to the single annual cycle of applications, invited in springtime to permit consideration by the Local and National Scientific Advisory Committees before ratification of awards at our June meeting, so that research can commence at the beginning of the University session in September. Fourteen applications were appraised in 2018 of which eight were selected for funding (totalling approximately £130,000), and the recipients met Committee members following the August meeting. It has been decided that Grampian will exercise its discretion in fixing the limits of project funding locally and will maintain a maximum small project grant of up to £12,000 for the coming year.

Interim and Final Reports have been received for 2018/19; all have been assessed as of high quality showing excellent research work, and adequately justify the Tenovus Scotland awards.

The third Moulton-Barratt Scholar has completed her PhD research into mediation of neurodegenerative disease using rapeseed pomace. In addition to generating several research papers, it is most gratifying that she has secured a position to continue postdoctoral studies in Washington University, St Louis, USA.

A new Moulton-Barratt PhD Scholar commenced her studies into Parkinson's Disease in September 2018.

Presentations from our PhD scholars continue to be an interesting and integral part of our quarterly Committee meetings, when we have the opportunity to learn how their researches are progressing.

## Income Generation and Events

Now an annual event, our local Scholars organized a sponsored walk in September to raise funds and awareness, this year on the Deeside Railway Line path, and added a bake sale.

Our Lawyers' Evening was held in January; the Continuing Professional Development event for local solicitors at the Royal Northern and University Club, after a short wine reception, was addressed by two sheriff clerks who spoke about the pitfalls in registering details of estates with the Court.

A local research symposium has been finalized to take place at Robert Gordon University on 22 August 2019. In addition to sharing knowledge, this will provide an opportunity for researchers to network, and an evening plenary lecture will be open to the public, once again stimulating, it is hoped, knowledge and interest in the Charity.

## Committee and Thanks

The Grampian Committee membership has remained stable over the last year. However, Mrs Marilene Walker, who has provided administrative support has been replaced by Mrs Kay Tweedie. The Chairman wishes to record his considerable gratitude to the Hon Secretary, the Hon Treasurer, all the other members of the Committee and the administrative assistants for their tireless efforts on behalf of Tenovus Scotland and without whom the endeavour would be much less effective.

**Professor Jamie Grieve**  
Chairman

## Grampian Committee

AS AT 31 MARCH 2019

**Chairman** Professor J Grieve  
**Vice Chairman** Professor C Wainwright  
**Hon Treasurer** Mr D Fraser  
**Hon Secretary** Mr J Young

### Committee

Mr G Benvie, Professor B Connolly, Dr S Duncan, Mr F McLennan, Mr A Marshall, Professor J Maxwell, Mrs S Mackie

## Grampian LSAC

Dr S Duncan, Professor J Maxwell, Professor J Grieve

## Donors

**Our sincere thanks to all our donors**

Mr D Galloway  
Mr D Yule

## Legacies

**We are grateful for the following legacies**

Ms C Lawrence  
Mr J Hepburn

## Grampian Hon Regional Secretary

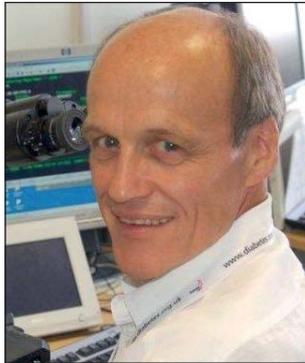
**MR FS YOUNG**

Tel: 01467 681380

Email: [grampian.secy@tenovus-scotland.org.uk](mailto:grampian.secy@tenovus-scotland.org.uk)

# Strathclyde

"Considerable publicity was given in the national press to the results of one pilot project from the University of Strathclyde on the early detection of sepsis. The help of Tenovus Scotland in funding this project was acknowledged in the press release."



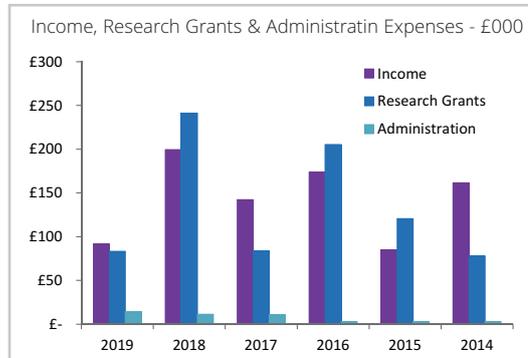
The Tenovus Scotland Strathclyde Committee had another successful year, meeting on four occasions.

## Applications Received and Project Reports

During the year grant applications were considered from all four universities in the West of Scotland (University of Glasgow, University of Strathclyde, University of the West of Scotland and Glasgow Caledonian University). A total of 26 projects were considered for funding of which five were approved. The total funding for these applications was £94,681.

The total number of Final Reports approved by the Strathclyde Committee was 13, and the total number of Interim Reports was nine. We were pleased to note in the Final Reports numerous examples of Tenovus Scotland grants leading to significant further funding from Research Councils and major medical charities. This excellent news was considered to be in line with our stated policy of funding talented young researchers on the cusp of a career of independent research.

Considerable publicity was given in the national press to the results of one pilot project from the University of Strathclyde on the early detection of sepsis. The help of Tenovus Scotland in funding this project was acknowledged in the press release. The Committee was pleased to be given a talk at its October meeting by our Princess Royal Tenovus Scotland Medical Research Scholar, Angela Iannicciello, on the progress of her work.



## Income Generation and Events

Most of our income continues to come from Charitable Trust grants and we are grateful to Ian MacDonald on the Committee for his excellent research and perseverance in pursuing this source of funding. The total income received in the last year from trusts, legacies and fundraising events was £90,696.

## Committee and Thanks

We were delighted to welcome Professor David Hamblen and Mr Alister Aitkenhead to the Committee in June 2018. At that time Mr Des MacLucas, our Treasurer for many years, intimated his wish to stand down. Unfortunately, we have as yet been unable to replace him and we are deeply grateful to him for continuing to fulfil the role in the interim. In October Professor Ken Paterson, our Chairman, was asked to take up the position of Acting Chairman of the Tenovus Scotland National Committee. He decided that he should no longer continue as Chairman of the Strathclyde Committee and, since then, I have been acting in this role.

I am well aware that in many committees the bulk of the work is done by the Secretary, and the Strathclyde Committee is no exception. I am deeply indebted to Mrs Sue Ogden for her help and guidance to me since taking up my new responsibilities.

Finally, thanks are due to the Medical and Dental Defence Union of Scotland for the use of its premises in Glasgow for our meetings.

**Professor Alan Foulis**  
Acting Chairman

## Strathclyde Committee

AS AT 31 MARCH 2019

**Chairman** Professor KR Paterson  
**Vice Chairman** Professor A Foulis  
**Hon Treasurer** Mr D MacLucas  
**Committee**

Mr A Aitkenhead, Mrs C Donald, Mr J Drury, Professor J Taylor, Professor D Hamblen, Mr I MacDonald, Mrs S Tolmie

## Strathclyde LSAC

Dr H Carswell, Dr V Helgason, Professor I McInnes, Professor S Pyne, Professor P Shiels, Dr J Spencer

## Donors

**Our sincere thanks to all our donors**

Anonymous  
Dr R Baxter  
Lord Macfarlane of Bearsden  
Mrs TStC Begg  
Mrs D Bernard  
Mrs J Fraser  
Dr WM Fyfe  
Lady Clarice Goldberg  
Mrs I Hay  
Mrs EA Illingworth  
Dr H Laird  
Professor D Lawson  
Mrs KME Liston  
Dr MJ MacLean  
Dr AG Mathieson  
Mr M McIver  
Mr M McLean  
Dr ID Melville  
Mr R Miller  
Mr AK and Mrs PM Morton  
Mr J Sinclair  
Mr AA Stuart  
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The Jeffrey Charitable Trust  
The Martin Charitable Trust  
MEB Charitable Trust  
The Ronald Miller Foundation  
The Templeton Goodwill Trust  
The Tennant Southpark Charitable Trust  
Alma and Leslie Wolfson Charitable Trust

## Legacies

**We are grateful for the following legacy**

Mr J Calderwood

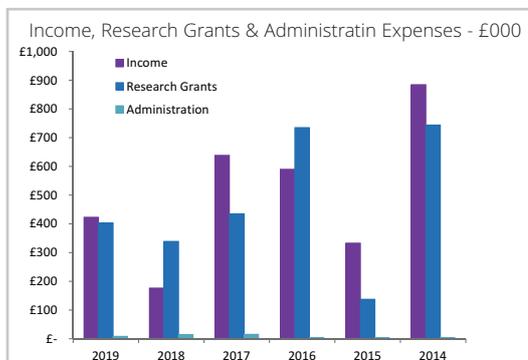
## Strathclyde Regional Secretary

**MRS S OGDEN** Regional Secretary

Tel: 0141 221 6268

Email: strathclyde.secy@tenovus-scotland.org.uk

"In addition to three small grants (up to £20,000) and two larger awards (up to £100,000), we have been able to recommend support for three PhD scholarships that duly commenced in September 2018."



Tenovus Scotland Tayside region has had a successful year in 2018-2019, supporting a number of high quality research studies. £461,074 was paid out during the year to support a range of existing and new projects, led by investigators in the University of Dundee, Ninewells Hospital and Medical School, and in the University of St Andrews.

## Applications Received and Project Reports

During the year a substantial number of applications were considered by the Local Scientific Advisory Committee. In addition to three small grants (up to £20,000) and two larger awards (up to £100,000), we have been able to recommend support for three PhD scholarships that duly commenced in September 2018, each supporting a student for a period of three years. As always, all projects that have been funded were strongly endorsed by the National Scientific Advisory Committee. This type of support is very much in keeping with the ambition of Tenovus Scotland to nurture young scientists and novel projects.

## Income Generation and Events

Income during the year included £390,225 from donations, trusts and legacies, and a there was a surplus of £2,390 from fundraising events. As always, we are indebted to supporters for their generosity in providing the financial support that allows us to nurture rising research talent.

The annual dinner was held in the Invercarse Hotel in November: the guest speaker was Mr Andrew Clegg, who gave an outstanding

address on the development of the NHS and its impact on the health of the nation; and we are indebted to Mrs Gloria Burns for her superb organisational skills in making arrangements for the event.

In December we were delighted to benefit from the 125th anniversary concert of the Dundee Symphony Orchestra, whose patron, Ms Nicola Benedetti, is an Honorary Vice President of Tenovus Scotland. To mark the occasion, a sell-out concert was held in the Caird Hall at which Ms Benedetti performed Bruch's Violin Concerto with the orchestra. Tenovus Scotland hosted an interval reception, which allowed our supporters an opportunity to meet Ms Benedetti.

## Committee and Thanks

As always, I must express thanks to the Local Scientific Advisory Committee, chaired by Professor Tim Hales, which carefully considered all of the projects submitted for funding. Mr Bryant Paterson has managed our accounts with great efficiency, and I have been delighted that Mrs Louisa Cross has taken on the role of local Secretary. I would also like to acknowledge the very hard work of Ms Yvonne Gormley, who supports the Local Scientific Advisory Committee superbly.

## Professor John Connell Chairman

## Tayside Committee

AS AT 31 MARCH 2019

**Hon President** Lady Fiona Fraser

**Hon Vice Presidents** Mrs P Dunn  
Mr NJ Robertson

**Chairman** Professor JM Connell

**Vice Chairman** Mr AF McDonald

**Treasurer** Mr B Paterson

### Committee

Professor J Belch, Mrs G Burns, Mr M Etherington, Mrs L Fotheringham, Professor T Hales, Professor PW Howie, Mr DJ Smith, Mr DJ Young

## Tayside LSAC

Professor T Hales, Professor S Brown, Dr H Dorfmueller, Professor C Lang, Dr S Pitt, Dr A Saurin

## Donors

### Our sincere thanks to all our donors

Dr JM Anderson  
Mr Bastable  
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Mr & Mrs I Brown  
Mr N Brown  
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Mrs YJ Taylor  
Dr & CH Walker  
Mr & Mrs M Webster  
Anonymous Trust  
Jimmie Cairncross Charitable Trust  
IBB Trust  
The Leng Charitable Trust

## Legacies

### We are grateful for the following legacies

Mr ACC Kelly  
Mr GJ Noonan  
Ms JFA Smart

## Tayside Regional Secretary

**MRS L CROSS**

Tele: 07719 309858

Email: tayside.secy@tenovus-scotland.org.uk

# The National Scientific Advisory Committee

"We ensure that rigorous scientific standards are met by each application and that they are likely to make a worthwhile contribution to current clinical/scientific knowledge."



Once again, there have been some changes in personnel in the National Scientific Advisory Committee over the past year. I would like to begin by acknowledging the contribution of two of our recent members, Dr Fiona Denison (Edinburgh) and Professor Douglas Steele (Tayside), who stepped down after many years of service to the Committee; we are very grateful for their hard work and wish them the best for the future. I am delighted to welcome Dr Scott MacKenzie (Edinburgh) and Dr David Connell (Tayside) and I would like to thank them and the remaining members of the NSAC (Dr Mairi McLean of Grampian and Dr Patricia Roxburgh of Strathclyde) for their endeavours. All of our NSAC Committee members are practising academic clinicians, and as it is increasingly difficult to find 'spare' time to perform additional roles (albeit valuable) their contributions are increasingly appreciated by Tenovus Scotland.

As ever, the role of the NSAC is to further evaluate projects already approved by each Local Scientific Advisory Committee. We ensure that rigorous scientific standards are met by each application and that they are likely to make a worthwhile contribution to current clinical/scientific knowledge. This "double scrutiny" means that Tenovus Scotland can uniquely claim that funds raised locally are all spent locally while, at the same time, ensuring that the money is only being spent on high quality research projects with strong and realistic translational potential.

More than 40 small research projects were funded over the past year. We tend to favour applications from newly established clinical researchers so we can fulfil our aim of

providing funding to generate preliminary data to help with further, larger scale, funding and research. Whilst it is too early to know whether these newly funded projects will result in meaningful clinical outputs and career progression, judging by our previous track record in promoting research careers and scientific evidence, we remain very confident that they will do so.

The projects funded this year cover a wide array of important medical topics and include liver disease, kidney disease, anti-microbial therapy, neurodegenerative disease, cardiovascular disease and cancer. It is this ability to consider and support such a wide variety of research areas as well as our drive to encourage and support young, new researchers that make the Tenovus Scotland small grants schemes such a popular and competitive funding source for many clinical scientists.

As is customary, I will outline just a few of the projects funded this year, focusing on those which were awarded the highest scores by the NSAC Committee. These proposals are reflective of new trends and priorities in clinical research and cover a variety of disease processes.

Dr Ross Dobie is a post-doctoral researcher in Edinburgh aiming to use cutting edge single cell transcriptomics to investigate the biology of a particular cell type thought to be pivotal in the development of liver fibrosis. This work will be undertaken alongside research leaders in the Centre for Inflammation Research, University of Edinburgh and, in time, could help in the management of hepatic cirrhosis, an all too common medical issue in Scotland.

Neurodegenerative disorders are of increasing prominence in our ageing population. Dr Fiona Kerr from Glasgow Caledonian University received funding to undertake a project designed to identify a novel treatment for Alzheimer's Disease which would inhibit the natural inhibitor (Keap 1) of a protective protein (Nrf2). This project was particularly strengthened by robust preclinical pilot data with a plan to translate to the human disease

through the use of a human cell-line derived tissue modelling system. Given the current lack of effective treatments for Alzheimer's dementia, we await the results of this study with a keen interest.

There is a major interest in the field of 'precision' or 'personalised' medicine which promotes the concept of tailoring therapy to better suit the genetic make up of the individual or the disease. With this in mind, Dr Mark Baxter (Tayside) has been awarded funding to help better define factors which determine sensitivity to chemotherapy in oesophageal carcinoma. This researcher is a clinician in training who remains research active and Tenovus Scotland is always keen to support such individuals.

Dr Colin Murdoch is a newly appointed Senior Lecturer in the University of Dundee. His major research interest is in pre-eclampsia and he is the PI of a Horizon 2020 Project designed to study disorders of pregnancy and the placenta. He received a sizeable grant from the local Tayside Committee to undertake an ambitious project designed to delineate the pathogenesis and molecular pathways associated with pre-eclampsia which can affect up to 6% of pregnancies, leading to considerable maternal and neonatal morbidity.

These are just a few of the many high quality applications we funded this year which will, we hope, provide an overview of the varied and innovative translational research being undertaken throughout Scotland. It is expected that many of these new ideas will yield positive results, leading ultimately to advances in medical treatments.

**Marie Freiel**  
NSAC Chairman  
Consultant Physician and Endocrinologist  
Honorary Associate Clinical Professor  
Queen Elizabeth University Hospital,  
Glasgow

## The National Scientific Advisory Committee

AS AT 31 MARCH 2019

**Chairman** Dr M Freiel  
**Committee**

Dr D Connell, Dr S MacKenzie, Dr M McLean,  
Dr P Roxburgh

# Financial Review

"Administration costs absorbed only 4.9% of our income over the last 10 year period, enabling at least 95% of our income to be available for charitable purposes".

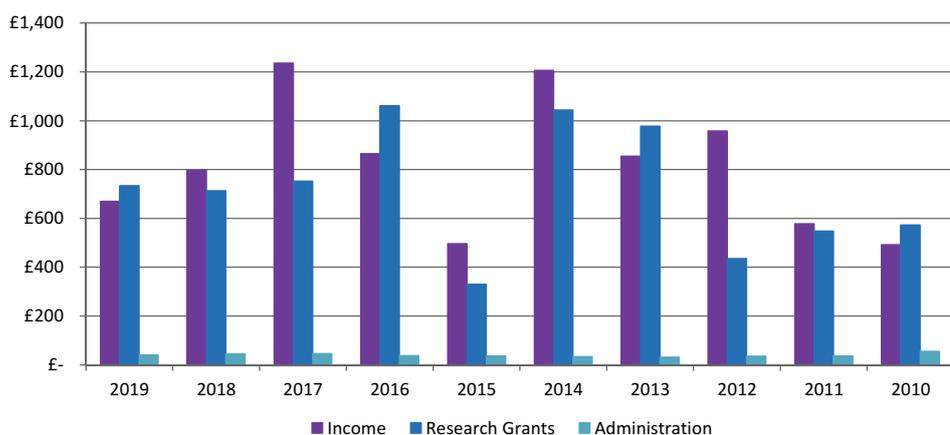
Set out below are the accounts for this and the preceding five years

## Income & Expenditure Accounts - £000

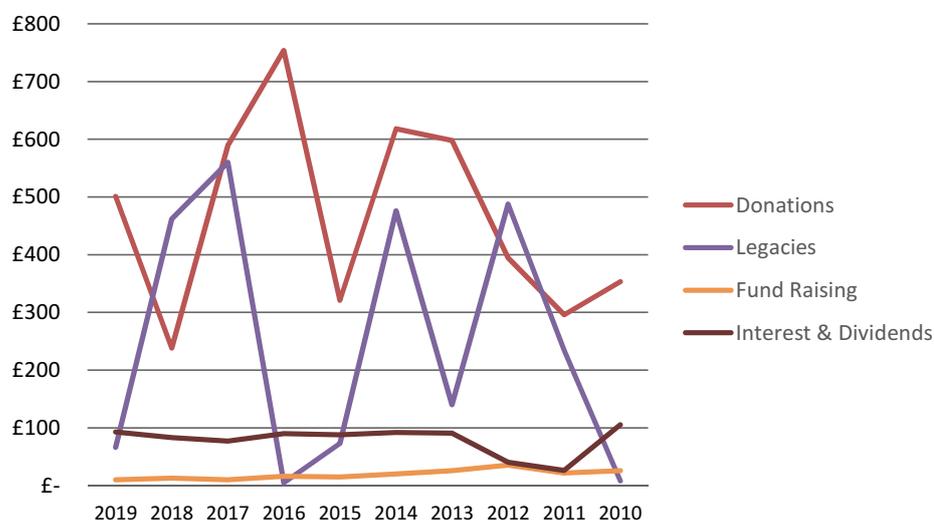
YEAR TO 31 MARCH

	2019	2018	2017	2016	2015	2014
DONATIONS	501	238	589	754	321	618
LEGACIES	66	462	560	5	73	476
FUND RAISING	10	13	10	16	15	20
INTEREST & DIVIDENDS	93	83	77	90	88	92
<b>TOTAL INCOME</b>	<b>670</b>	<b>796</b>	<b>1,236</b>	<b>865</b>	<b>497</b>	<b>1,206</b>
RESEARCH GRANTS	734	713	753	1,062	330	1,044
ADMINISTRATION	41	45	46	38	37	34
<b>TOTAL EXPENDITURE</b>	<b>775</b>	<b>758</b>	<b>799</b>	<b>1,100</b>	<b>367</b>	<b>1,078</b>
SURPLUS/DEFICIT	-105	38	437	-235	130	128
ADMIN AS % OF INCOME	6.1%	5.7%	3.7%	4.4%	7.4%	2.8%

## Income, Research Grants & Administration Expenses - £000



## Income Flow - £000



The financial information above is extracted from the full audited Annual Report and Accounts for the 10 years ended 31 March 2019. Copy of the most recent audited Annual Report and Accounts is available on request from the General Secretary.



This has been another satisfactory financial year for Tenovus Scotland.

A strict year by year comparison of annual accounts of a charity is not as meaningful as it is for shareholder owned entities.

More interesting is the trend over a number of years. Donations are fairly steady over the last 10 years and have accounted for some 60% of our income, while legacies account for some 30% of our income, but vary from year to year for obvious reasons, the remainder of our income coming from fund raising events and bank interest and dividends.

We are grateful to the many members of the legal profession who recommend Tenovus Scotland when advising clients on their wills.

It is pleasing to report that administration costs absorbed only 4.9% of our income over the last 10 year period, enabling at least 95% of our income to be available for charitable purposes.

Tenovus Scotland is in good financial health thanks to the support we receive from our donors and legatees and also to our prudent policy of only authorising research projects (charitable expenditure) in the knowledge that we have the funds in hand.

**Mr Francis McCrossin**  
National Treasurer

### Finance Committee

AS AT 31 MARCH 2019

**Chairman** Mr FEJ McCrossin  
**Committee**

Professor D Bell OBE, Professor AA Calder MBE, Professor J Connell, Professor A Foulis, Mr D Fraser, Professor J Grieve, Mr M McIver OBE, Mr D MacLucas, Mr B Paterson, Professor K Paterson, Mr GM Philips, Mr J Watson

**PATRON**  
HRH THE PRINCESS ROYAL

**HON PRESIDENT**  
Sir Kenneth Calman

**HON VICE PRESIDENT**  
Lady Arbuthnott  
Mrs Thia StC Begg  
Ms Nicola Benedetti CBE

**TRUSTEES AND NATIONAL COMMITTEE**  
Professor Andrew A Calder MBE (Chairman until 17 September 2018)  
Professor Kenneth Paterson (Acting Chairman from 17 September 2018)  
Mr Colin J Black  
Professor Derek Bell OBE  
Professor Alan Foulis  
Professor John Connell  
Professor James Grieve  
Miss Mary Marquis MBE  
Mr Francis EJ McCrossin (Hon Treasurer)  
Mr Malcolm McIver OBE  
Mr Graham M Philips (Hon Secretary)  
Dr Heather Reid OBE

**GENERAL SECRETARY**  
Mr Iain McFadzean

**OFFICE**  
At Royal College of Physicians and Surgeons of Glasgow, 232- 242 St Vincent Street, Glasgow G2 5RJ

**TELEPHONE**  
0141 221 6268

**EMAIL ADDRESS**  
general.secy@tenovus-scotland.org.uk

**WEBSITE ADDRESS**  
www.tenovus-scotland.org.uk

**AUDITORS**  
Wylie & Bisset LLP, 168 Bath Street, Glasgow G2 4TP

**BANKERS**  
Adam & Company PLC, 238 West George Street, Glasgow G2 4QY  
Clydesdale Bank PLC, 14 Bothwell Street, Glasgow G2 6QY  
Santander Corporate Banking, 301 St Vincent Street, Glasgow G2 5NB

**STOCKBROKERS**  
Speirs & Jeffrey Ltd, George House, 50 George Square, Glasgow G2 1EH

**CHARITY NUMBER**  
SC 009675

**General Data Protection Regulation**

It is our goal to be as open and transparent as possible with our donors, supporters and researchers about the personal data we hold. For further information, please read our privacy policy on our website.