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Annual Review 2016/2017 03

Principal's foreword



The University's *Annual Review* always provides a welcome opportunity to step back and take stock of another year in the life of our great institution.

As I prepare to demit office I am struck by the sheer variety and scope of the work that we carry out, thanks to the diligence, dedication and innovation of our staff, students, alumni and supporters.

This year's edition is no exception, showcasing as it does our influence and impact both locally, nationally and globally.

As we play such an important part in the life of the city of Edinburgh, we are enormously aware of our responsibilities as a neighbour, and as a custodian of some of the great buildings we are fortunate enough to inhabit. In this year's Review we focus on our

£35-million refurbishment of the magnificent into just two which have been selected from Grade A-listed McEwan Hall, and our redevelopment of St Cecilia's Hall and the Pleasance complex – as well as our plans for creating the Edinburgh Futures Institute on the site of the Old Royal Infirmary.

The University brings much to the artistic life of the Scottish capital and beyond. I am proud that this year we highlight the work of colleagues at the world-famous Venice Biennale with contributions from our distinguished alumna Rachel Maclean, Edinburah College of Art, the Centre for Research Collections and the University's Talbot Rice Gallery.

We are a truly international university and that is reflected in many ways. In this publication we examine our global outlook using a number of examples: with the launch of our Institute for International Cultural Relations, with our efforts to bring computer technology to schools in sub-Saharan Africa, and with some of the ground-breaking cross-border research being carried out by our early-career academics.

The quality of our research and innovation at all levels is something that really sets Edinburgh apart. The research projects which **Professor Sir Timothy O'Shea** our staff and students lead on are both fascinating and inspiring, generating headlines around the world. Here we delve

very many: the team from the School of Chemistry which has discovered a new way to recover gold from electrical devices such as mobile phones; and the students working to design and build a futuristic travel system known as the Hyperloop.

We live in challenging yet exciting times and at the University we are particularly excited by the promise for the future being delivered by the signing of the Edinburgh and South East Scotland City Region Deal. As a signatory, the University will play a key part in turning our region into the data capital of Europe. In this edition of the *Review*, you can read in detail about our plans to make this vision a

After 15 years at the helm, it is gratifying for me personally to reflect on what excellent shape we as an institution are in. That is thanks to the efforts of our staff, students, alumni and supporters worldwide. I have every confidence that the University will continue to go from strength to strength in the years to come.

- man o She BSc. PhD. FRSE

Principal and Vice-Chancellor

The University of Edinburgh

Tha Lèirmheas Bhliadhnail an Oilthigh daonnan na dheagh chothrom gus ceum a ghabhail air ais agus a bhith a' cnuasachadh air bliadhna eile ann am beatha na buidhne cudromaich seo.

Agus mi ag ullachadh gus an oifis agam fhàgail, tha e a' tighinn a-steach orm cho farsaing is cho diofraichte 's a tha an obair a nì sinn san oilthigh, mar thoradh air an dìcheall is tionnsgalachd aig an luchd-obrach, oileanaich, alumni agus luchd-taic againn.

Chan eil lèirmheas na bliadhna seo eadardhealaichte, agus e a' taisbeanadh na buaidh agus na buil a bh' againn gu h-ionadail, gu nàiseanta agus air feadh an t-saoghail.

A chionn 's gu bheil sinn cho cudromach ann am beatha baile Dhùn Èideann, tha sinn gu math mothachail air an dleastanas a th' againn mar nàbaidh agus mar an luchd-glèidhidh aig cuid de na toglaichean cudromach a tha sinn fortanach a bhith a' cleachdadh. Ann an *Lèirmheas* na bliadhna seo, tha fòcas againn air an obair ath-nuadhachaidh £35-millean againn air togalach àlainn Talla MhicEòghainn, a tha air a' chlàradh aig Ìre-A, agus air an ath-leasachadh a tha sinn a' dèanamh air Talla Naomh Cecilia agus àrainn a' Phleasance - cho math ris na planaichean a th' againn airson a bhith a' cruthachadh Institiud Dhùn Èideann son an Àm ri Teachd air làrach an t-Seann Ospadail Rìoghail.

Tha an t-Oilthigh a' cur tòrr ri saoghal nan ealainean ann am prìomh bhaile na h-Alba agus nas fhaide air falbh. Tha mi moiteil gu bheil sinn a' toirt sùil am-bliadhna air obair nan co-obraichean againn aig Venice Biennale, a tha ainmeil air feadh an t-saoghail, le fiosrachadh ann bhon t-seann oileanach chliùiteach againn Rachel Nicllleathain, bho Cholaiste Ealain Dhùn Èideann, bho Aonad nan Cruinneachaidhean Rannsachaidh agus bho Ghailearaidh Talbot Rice an Oilthighe.

'S e oilthigh a th' annainn a tha fìor eadarnàiseanta agus chithear sinn ann an iomadh dòigh. Anns an sgrìobhainn seo, bheir sinn sùil air an t-sealladh chruinneil againn a' cleachdadh grunn eisimpleirean: bogadh na h-Institiud againn airson Dàimhean Cultarach Eadar-nàiseanta, na h-oidhirpean againn gus teicneòlas coimpiutair a thoirt do sgoiltean ann an sgoiltean sub-Sahàrach, agus fios mu chuid den rannsachadh tar-chrìche tionnsgalach a tha cuid de na sgoilearan againn a' dèanamh aig ìre thràth sa chùrsa-

Tha càileachd an rannsachaidh is an tionnsgalachd aig gach ìre a' cur Oilthigh Dhùn Èideann air thoiseach air càch. Tha na pròiseactan a tha an luchd-obrach is na h-oileanaich againn a' stiùireadh an dà chuid fìor inntinneach agus brosnachail, agus iad a' faighinn iomraidhean sna cinn-naidheachd air

feadh an t-saoghail. An seo, bheir sinn sùil air dìreach dà dhiubh seo, a tha air an taghadh bho fharsaingeachd de phròiseactan: air sgioba bho Sgoil na Ceimigeachd a tha air dòighean ùra a lorg gus òr fhaighinn air ais bho innealan dealain mar eisimpleir fònaichean-làimhe – agus air oileanaich a tha ag obair gus siostam còmhdhail ùr-nodha a dhealbhadh is a thogail air a bheil an

'S e àm dùbhlanach ach brosnachail a tha seo agus aig an Oilthigh, tha sinn a' coimhead air adhart qu sònraichte ris na cothroman san àm ri teachd a tha an lùib soidhneadh Aonta Sgìre Baile-mòr Dhùn Èideann agus Ear-dheas na h-Alba. Mar soidhniche, bidh pàirt nach beag aig an Oilthigh ri cluich gus prìomh bhaile dàta na Roinn Eòrpa a dhèanamh den roinn againn. Anns an tionndadh seo den Lèirmheas, is urrainn dhut leughadh ann am mion-fhiosrachadh mu na planaichean againn gus an sealladh seo a thoirt gu buil.

Às dèidh 15 bliadhna aig an stiùir, tha e toirt tlachd dhomh gu pearsanta cnuasachadh air an deagh chor a th' againn mar bhuidhinn. Tha seo mar thoradh air oidhirpean an luchd-obrach, oileanaich, alumni agus luchd-taic againn air feadh an t-saoghail. Tha mi làn chinnteach gun lean an t-Oilthigh air a' dol bho neart gu neart anns na bliadhnaichean ri teachd.





Revitalising a treasured symbol of civic pride

The University's McEwan Hall is a fine example of its commitment to investing in Edinburgh's cityscape and heritage.

When William McEwan donated £115,000 to the University in 1886, it was the largest single donation the University had ever received, and it sparked the creation of a magnificent landmark that would host public events and graduation ceremonies for generations to come.

In 2015, the doors to the McEwan Hall were closed to restore the Grade A-listed building back to its original glory. The £35million refurbishment took place over two years, with the Hall reopening in summer 2017 to the great excitement of staff and students alike, and to the great pleasure of graduating alumni, their parents and friends.

As well as making critical structural improvements, the windows, stonework and frescos were conserved, and the building was updated to meet modern-day accessibility requirements. While the University made a significant contribution from its own funds, alumni and donors played an important role in this chapter of the building's story.

For Mr Chris Cox, Vice-Principal Philanthropy and Advancement, the spirit in which the original donation was made, strikes a chord with generous donors today: "William McEwan was the MP for Edinburgh Central and had huge pride in the city and the University," he says. "McEwan saw universities as places where people from all walks of life could convene. This is as important today as it was then. Swingeing funding cuts in the mid-19th century meant that to build this wonderful civic building, the University really needed the generous support of benefactors."

Fortunately the University's secure financial position today enabled it to contemplate this major renovation. However, without the generosity of University benefactors the completed upgrade may not have had the same impact.

A campaign entitled Pathways to Enlightenment was launched in early 2016. To honour the original benefaction, alumni were invited to make a gift of £115, and in return, their name was inscribed on a tile, used within the newly restored building.

people from all walks of life could convene. This is as important today as it was then. **Mr Chris Cox**

The response to the campaign was unprecedented, with more than 1,700 alumni from more than 50 countries contributing to the redevelopment. For Mr Cox the participatory nature of the campaign was important: "It was about finding a way in which hundreds, and eventually thousands, of alumni could connect themselves to this historic building, which clearly means so much to so many people."

Current students were also at the heart of the redevelopment. A competition was held for third-year art students to design the tiles that would recognise donors' contributions. Inspired by images held in the University's research collections digital archive, the winning undergraduates – Lizzie Bevington and Despina Petridou – proposed an innovative concept that represented people and ideas moving through the University.

The University's Art Collections Curator, Mr Neil Lebeter was closely involved in the project and saw the commission of students' work as being the ideal way for the University to support emerging artists.

"As well as thanking our donors in a thoughtful and unique way, commissioning young artists talks to the future, as well as referencing the history of the institution," says Mr Lebeter. "Lizzie and Despina did an amazing job. To be involved in such a major project was fantastic work experience for

Architectural Conservation students were also given the opportunity to work alongside specialist conservators at the highest reaches of the Hall; learning how to clean and renovate the original murals. Anushka Desouza was one of the students to take part: "Working on the building helped me to implement the techniques learnt in the classroom," she says. "It definitely enhanced my experience of studying at Edinburgh. It was an opportunity that I wouldn't have found anywhere else, and I feel like I'm a part of the fabric of this historic building."

McEwan Hall is one of many landmarks on Edinburgh's skyline that the University has committed significant investment to restore, maintain and improve.

Work is to begin shortly on the Grade A-listed Old Royal Infirmary. The former city-centre hospital was purchased by the University in 2015, after it lay vacant for more than 12 years. Due to reopen in 2021, it will be home to the Edinburgh Futures Institute, creating new teaching, research and public spaces.

The Pleasance complex plays host to a great variety of student societies, as well as becoming a busy hub during the annual Festival Fringe. The University has worked closely with the Students' Union to improve and extend facilities and maximise space over the past year.

St Cecilia's Hall - Scotland's oldest purposebuilt concert venue – reopened in May 2017, after a £6.5 million redevelopment. The concert room and music museum situated in the Old Town is open to the public from Tuesday to Saturday, after previously opening at sporadic times, and the renovation has also brought about a lively programme of concerts and events for the local community

"Our musical instrument collection is highly renowned worldwide," says Ms Jacky MacBeath, the University's Head of Museums. "Now we have facilities that match the quality of our collection and expertise of our staff. And the response we've had from the local community since reopening has been wonderful."

The University's commitment to having a strong relationship with the people of Edinburgh through these visionary yet accessible refurbishment projects fills Mr Cox with optimism. He concludes: "It's wonderful that the University is investing so much into developing this network of inspiring spaces - giving enormous benefits to our students and alumni - and the city of Edinburgh as a



The University is home to a diverse range of cultures and nationalities across student, staff and academic spheres. Launched in January 2017, the Institute for International Cultural Relations aims to bring these groups and cultures together, both in academic and social circles throughout the University and beyond.

The Director of the Institute, Professor JP Singh, joined the University in 2016. A prize-winning author and former adviser to UNESCO, the World Bank and the World Trade Organization, Professor Singh believes a greater interdisciplinary approach to research and collaboration is required, if Edinburgh is to expand the impact of its expertise to a global audience.

"Culture is who we are and how we think of ourselves," says Professor Singh. "There are many people at the University and beyond who work on different topics but use culture as a lens. The Institute for International Cultural Relations aims to bring these people together and foster research and education in terms of how we think of ourselves across borders."

For Professor Singh, several things stand out about education in the future: "We will have to solve issues that can't be categorised by discipline," he explains. "For example, the refugee influx into Europe is a public health issue, a human rights issue, a legal issue and a diplomatic issue. It will take an interdisciplinary approach to help solve it."

He also believes that universities must continue to adapt in order to deliver world-leading education and research: "I've been living in the US for the past 34 years, but I grew up in a remote area in India. When people came from big universities to lecture to us, we didn't listen. So I'm always trying to find a way to connect the Institute to all types of communities and people from different backgrounds."

Professor Singh has been working with a number of schools across the University to design cutting-edge online programmes, including the planning of an online masters in international cultural relations.

The Institute has already presented a range of events in the UK and abroad. One such initiative was the Institute's Global Cultural Fellows programme, which worked with a

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Professor JP Singh

number of international groups to bring 33 cultural experts to Edinburgh for the 70th year of the Edinburgh festivals in the summer

"The programme was a resounding success," says Professor Singh. "It really resonated with people. I can't believe the number of times so many of the Fellows have said that this was one of the most transformational experiences of their life."

The diverse group included a dancer from Cambodia, the head of the National Theatre of Nigeria, an Australian opera singer, a Malaysian chef, and a magazine editor from Sweden. Over eight days the group met to discuss international cultural relations and specific issues before attending shows at the various festivals.

"We invited cultural activists from around the world, who are strongly connected to their communities, to think about specific cultural issues," explains Professor Singh. "The experience had a profound impact on many of them and made them think of the world differently. Over the next year, the Fellows will undertake projects of their own choosing, which help them connect their Edinburgh experience with their communities, and of course, they now have a global network that they can rely on."

The Institute has also been forging close relations with cultural partners. Professor Singh noted the invaluable input of the Edinburgh festivals to the Global Cultural Fellows programme: "We worked closely with various festivals to design the programme, taking in shows at the Book Festival, the Festival Fringe and the Edinburgh International Festival, which spawned further conversation and research. Integral to this activity was the input of our Visiting Professor

As the founding Director of the organisation Festivals Edinburgh, Professor Liddell led on the development of Edinburgh's twelve major festivals. The Global Cultural Fellows

programme was one of her first projects in her new role with the Institute: "I had collaborated with a number of people in the University, in my role with Festivals Edinburgh," explains Professor Liddell. "But when Vice-Principal Dorothy Miell suggested becoming a Visiting Professor I was delighted. The Institute feels like a natural home.'

The individual Global Cultural Fellows came from across the world, clearly with different and distinctive perspectives. They included people working on the frontline in conflict resolution, in community initiatives, in culture-led regeneration as well as radical artists pushing the boundaries of practice. For Professor Liddell, understanding international cultural relations is critical in the current environment: "Shared understanding of cultural interests and values across nations has been put into question," she says. "Innovative approaches to developing and informing cultural practices are essential to bridging divides."

Professor Singh also believes that culture is at the heart of many of the world's most important issues. Therefore the city, the University and the Institute are ideally placed to bring together individuals, ideals and disciplines of contrasting natures in order to connect research, politics and communities. The Institute will have the opportunity to explore this concept further as one of several key research groups within the University's new Edinburgh Futures Institute – a visionary hub where experts can transcend boundaries and join forces in response to global cultural, technological, political, social and managerial challenges.

"The past year in Edinburgh has provided a deeply meaningful and exciting opportunity to make an institutional mark in international cultural relations," states Professor Singh. "We've had great support from the Scottish and Westminster governments, from the Edinburgh festivals and from people all over the world, and to feel that you are really making a difference in the world, as an institute, really resonates so much.



In 2017, a team led by Professor Jason Love revealed a new way of recovering gold from circuit boards used in electronics including televisions, computers and mobile phones.

Methods currently used to recover the precious metal are often inefficient or reliant upon toxic chemicals such as cyanide. Improving these recycling processes could help to cut carbon dioxide emissions and reduce the need for gold mining, a practice harmful to the environment. Seven per cent of the world's gold is inside waste electronics and of that only 30 per cent is currently salvaged.

"As a society, we need to recognise that we have limited resources and that we can't keep consuming these if we don't have a way of returning them back to a useful state," states Professor Love. "We have to think about how we can develop better ways of recycling, and we're interested in the chemical aspects of how we do that."

With an estimated 300 grams of gold present in every tonne of electronics, Professor Love and his team set out to develop a more sustainable and environmentally friendly approach that could allow for greater quantities of gold to be recycled. They formulated a new chemical reagent to use in As well as gold, the team is investigating a process called solvent extraction, which is used widely for the recovery of metals from ores. Compared to other methods such as smelting – which uses extremely high temperatures to separate mixtures of metals - solvent extraction is potentially a very environmentally friendly alternative.

"The solvent extraction process has existed for decades but as chemists we're trying to discover new and better reagents that recover metals more selectively," explains Euan Doidge, a PhD student in Professor Love's research group.

As a society, we need to recognise that we have limited resources and that we can't keep consuming these if we don't have a way of returning them back to a useful state. **Professor Jason Love**

Using their new method, circuit boards are first placed in a mild acid to dissolve all their metal parts. An oily liquid containing the team's reagent is then added, which allows gold to be extracted selectively from the complex mixture of metals found inside electronics.

"Our reagent allows us to recover a very high purity of gold, explains Euan. "Normally, one molecule of reagent binds directly to one metal molecule. Our compound uses a different type of chemistry, and can bind to clusters of gold molecules instead of just one. This means you can use a lot less of it to recover the same amount of gold."

As a by-product of this research, Euan has enjoyed success in a science communication contest. After winning the University's 2017 Three-Minute Thesis heat, he was awarded the People's Choice award in the UK final. This has given him the opportunity to talk about his work at the world-famous Royal Institution, as well as enter into the Three-Minute Thesis international final.

ways of improving the recycling of other precious metals found in waste electronics, such as palladium, platinum, and rare earth elements like neodymium. New reagents could be developed to salvage these and common metals such as copper and tin.

There may also be the opportunity to extract toxic metals such as cadmium and lead. which can cause environmental issues that could, in turn, be prevented. The team is also interested in how chemistry could be used to recover plastics, not currently recycled, from

A big motivation for Professor Love and his team is the concept of the circular economy, which encourages reuse of materials and practising greater resource efficiency: "To develop a circular economy, we cannot

waste these valuable resources," says Professor Love. "If these materials could be recycled at the point of collection, it would provide lots of income to that local area. That doesn't happen at the moment."

In theory, the team's new method could help to facilitate this development, because it can be carried out on a relatively small scale, which could enable local set-up. However, in order to make progress on the development of circular economy initiatives, collaboration is essential.

"Our aim is to build a whole theme of work at Edinburgh around urban mining and waste recycling," explains Professor Love. "To do that we need more expertise in other areas, so we're working with colleagues in geosciences, engineering and social

Professor Love's team is also working with the organisation Closing the Loop, an Amsterdambased company that aims to reduce electronic waste by collecting old phones in Africa and bringing them to Europe to be

This commitment to making a socially responsible contribution to society is echoed across the University. Mr Dave Gorman is Director of the Department for Social Responsibility and Sustainability, which was established in 2014 to underline the University's commitment to making a significant, sustainable and socially responsible contribution to the world. Mr Gorman believes that the many staff- and student-led initiatives at Edinburgh can help it deliver on this strategic ambition.

"Higher education institutions like Edinburgh can play a pivotal role in a transformation to a circular economy," he states. "The work being done by Professor Love and his team is a great example of the kind of cutting-edge research going on at the University to help bring about the adoption of circular economy initiatives."



In May 2017 a deconsecrated church in Venice housed a new work of art by Edinburgh alumna Ms Rachel Maclean, commissioned to represent Scotland at the renowned Venice Biennale.

Ms Maclean's 37-minute video, entitled Spite Your Face, was the focal point for a project that connected several important strands of the University to the Biennale. It marked a special alignment of students, staff, alumni, Edinburgh College of Art (ECA), the University's Centre for Research Collections and the University's contemporary art gallery, all working together – with significant external partners – to present on this most global of stages.

At 29, Ms Maclean is the youngest artist to be selected by Scotland + Venice, a partnership run by Creative Scotland, the National Galleries of Scotland and the British Council Scotland. Every two years Scotland + Venice selects an artist that best represents the country's contemporary art scene.

"It was a big surprise," says Ms Maclean. "I feel that I've been lucky. I owe a lot to Edinburgh and Scotland in terms of people having confidence in me when I was young."

Since leaving ECA in 2009, Ms Maclean's satirical, day-glow videos have startled critics and the public around the world. Her ability to weave major contemporary themes into her work made her a bold choice for the 2017 Biennale. Spite Your Face is a dark retelling of the Pinocchio story that plays upon the power of lies, populism and misogyny.

Every Biennale, Scotland + Venice also selects a Scottish-based curator to deliver the show. The University's Talbot Rice Gallery in partnership with the Hawick-based company Alchemy Film & Arts were chosen as commissioners of Spite Your Face. It was the first time the Gallery had been involved in the project, the University and Ms Maclean's Biennale.

I feel that I've been lucky. I owe a lot to Edinburgh and Scotland in terms of people having confidence in me when I was young.

Ms Rachel Maclean

"Being part of Venice placed us on an international platform and inspires us to stay there," says the Gallery's Director, Ms Tessa Giblin. "Most people, rightly, talk about the impact Venice has on the artist. But we mustn't forget the enormous impact it has on the professionals working behind the scenes - the curators, project managers, technicians, marketing people, the publicists, the fundraisers. All those involved, in my experience, have gone through an enormous growth curve."

Ms Giblin, who joined the Talbot Rice Gallery in 2016, has been involved with the Biennale for the past 10 years. While other colleagues at the Gallery worked on Scotland + Venice, she was also commissioner and curator of the Irish pavilion. Working with the artist Jesse Jones, she describes it as "the hardest, most rewarding thing" she has ever done.

As well as providing an unprecedented platform for the University's alumni, its gallery and its staff, art students from ECA were also given a unique opportunity to experience the international festival.

Scotland + Venice's Professional Development Programme selected 15 students from across Scotland to invigilate Spite Your Face in Venice. The cohort included five fine art students from Edinburgh. The students stayed in Venice for a month at a time between May and November, working in pairs to manage the venue, Chiesa di Santa Caterina, in the northern Cannaregio district of the city. In addition, they acted as ambassadors for the work. Gemma Batchelor, an ECA student taking part, says: "Because she [Rachel Maclean] came from ECA too, we definitely felt an ownership of the piece, and we felt great when people had a positive response

The students also had time off to explore the Biennale and to develop their artistic practice. Evenings were spent connecting with representatives from the other pavilions, resulting in screenings, talks and life drawing

"I just feel really lucky," says fellow ECA student and invigilator, Siobhan McLaughlin. "I've never been out of Scotland for more than two weeks before. Since coming back, I've felt much more confident. I've applied for things I never would have thought about before. It has made the art world seem more accessible. I'm much less anxious now about life after university."

Ms Maclean also appreciates how the experience could offer promising futures for this next generation of artists: "The development programme is fantastic," she says. "The students I have met who are part of it are really brilliant and have done such an amazing job. I'm so excited for them. I'm looking forward to what they make, and what they do, as a result of the experience. I think there will be an amazing legacy for Scotland and the Scottish art scene.

The 2017 Venice Biennale experience will certainly live on in the University. The students are planning collaborative shows in Cardiff and Edinburgh with artists they met there. The Talbot Rice Gallery is focusing on commissioning new work and exploring the possibilities of group shows, two defining features of the Biennale. The artist who represented Hong Kong, Samson Young, has been commissioned by the gallery to produce a work for 2019, and Jesse Jones' Venice work, Tremble Tremble, will be on show in late 2018.

Additionally, the University has purchased the film Spite Your Face to form part of its official Art Collections. In February 2018, nearly a decade after graduating, Ms Maclean will return to the University, and, alongside many others, will attend her film's UK premiere at the Talbot Rice Gallery.



Stimulating success through cross-border research

A mood of optimism prevails among Edinburgh's early-career academics despite Brexit uncertainties.

It is Edinburgh's global reputation for academic excellence that draws so many early-career researchers to the city; it is the University's international outlook that convinces so many to stay.

Those who choose to develop their careers here are part of a continuing story, key to the University's success since its earliest days when European influences first held sway: among them a curriculum taking its lead from Paris; and experimental methods inspired by the Dutch.

It has always been a two-way process. As the University played host to the Scottish Enlightenment's great flowering of thought in the 18th century, the celebrated French philosopher Voltaire proclaimed: "It is to Scotland that we look for all our ideas of civilisation."

This appetite for endeavour that transcends disciplinary, intellectual and institutional boundaries endures to the present day, and in the wake of the 2016 EU referendum result, Edinburgh's desire to be a leading centre of excellence, open to the world, is undiminished.

For the University, two priorities continue – to maintain the mobility of European staff and to sustain European-funded research partnerships. It is perhaps little surprise then, that in the past year, early-career academics at Edinburgh have secured €9 million from the European Research Council's (ERC) Starting Grants programme.

The successful researchers, based across the University's three Colleges, are quick to praise a funding scheme that enables ambitious, fundamental work. Among them is Dr Bin-Zhi Qian, Reader and Cancer Research UK Fellow at Edinburgh's Medical Research Council Centre for Reproductive Health, whose research passion is cancer metastasis – how tumour cells spread – and therapy resistance. Working with teams in the US and Germany, his group's goal is to develop effective treatments.

A sense of urgency pervades the work that informs his study into metastatic hormone refractory prostate cancer. Despite advances in early diagnosis, fewer than half of patients

Collaboration across borders is vital. Brexit may impact recruitment, but the University has been very supportive. I am excited about what lies ahead. **Dr Jennifer Smillie**

can expect to survive 12 months once tumour cells begin to resist current treatments.

"Working across borders is critical for success," says Dr Qian. "The University has been extremely supportive, helping us to attract excellent scientists. Our thoughts, looking forward, are positive."

Time is of the essence too for Dr Jennifer Smillie, a Royal Society Research Fellow in the University's School of Physics & Astronomy, who is drawing meaning from data derived from the Large Hadron Collider (LHC) near Geneva

The discovery in 2012 of the Higgs boson makes this is a pivotal period for particle physics. The LHC is a discovery machine, designed to shed light on unanswered questions about physics at its smallest scale. With ERC funding, Dr Smillie can push forward: "With the LHC running, this is time-critical. Collaboration across borders is vital. Brexit may impact recruitment, but the University has been very supportive. I am excited about what lies ahead."

In the School of Chemistry, Chancellor's Fellow Dr Michael Cowley is seeking alternatives to costly, toxic metals that underpin much of the chemistry we rely on to make things such as plastics, drugs – even Post-it notes. By exploring the structure of new and unusual aluminium compounds, he hopes to devise cleaner, efficient alternatives, collaborating with other research groups. Having worked overseas, Dr Cowley knows the value of absorbing different techniques, scientific traditions and schools of thought. Such openness is vital: "The University is working to influence policymakers, trying to make it easy for people to cross geographical and scientific boundaries," he explains. "If we lose this, our science and our society will be poorer."

Another Chancellor's Fellow, Dr Alice Street, is all too aware of barriers to progress. Based in the University's School of Social & Political Science, she is striving to improve the

efficiency of rapid, portable diagnostic medical devices in areas devoid of transportation, communication or electrical infrastructure. Working with research partners in Sierra Leone and India, her study will investigate the social, cultural and technical processes involved in developing and using diagnostic tools in settings where resources are limited.

For Dr Street, the ultimate goal is to guide global health policy: "ERC funding provides an opportunity to lead a large-scale, comparative, anthropological study that not only addresses an intractable challenge, but also helps to advance theoretical thinking."

This approach chimes with that of Dr Kevin Myant, Principal Investigator at the Cancer Research UK Edinburgh Centre, who is seeking to understand how colon cancer spreads, specifically how genetic mutations drive its formation. There has been huge investment in identifying mutations that occur in cancer, but it is unclear which ones cause disease to form and spread. Dr Myant aims to solve the riddle and pave the way for new therapies.

"The ERC provides generous funding for relatively high-risk, high-gain projects that other funders may find too speculative," he explains. "Projects such as mine, which work across international boundaries, are ideal for this type of funding."

It sits well too with Dr Sotiria Grek, Senior Lecturer in Social Policy, whose research explores how metrics – standards that measure efficiency, performance and progress - can actively contribute to policy decisionmaking across national borders, primarily in education and sustainable development. Her new project's focus will be the complex relationship between international organisations and the production of statistical data. This comparative, transnational research focus has not only defined her career but also Dr Grek's identity as a European citizen: "I have always considered the ERC more of an intellectual 'home' than just another funder. It values interdisciplinarity and nurtures in-depth study – the kind of slow social science that is so needed, yet is so rare."



Backing a life-changing investment for the whole community

On 20 July 2017, the University was one of several signatories to what could be one of the most significant events in its 434-year history.

The Edinburgh and South East Scotland City Region Deal pledged £1.1 billion to fund major infrastructure projects in Edinburgh, the Lothians, Fife and the Scottish Borders. The money will come from the Scottish and Westminster governments and partners in the local authorities, universities and private

The ambition is to make Edinburgh and its surrounding area 'the Data Capital of Europe'. By developing clusters of activity based upon data science – the collection, organisation and interpretation of large sets of digital information – the University will be key to achieving the City Region Deal's goal.

"In many ways, the University is the glue that holds the whole thing together," says Senior Vice-Principal Charlie Jeffery, who represented the higher education sector in the negotiations. "We have a vision and capacity for technological innovation that can change and drive the economy."

"The funding gives us both the opportunity and the huge challenge to deliver on our potential," says Vice-Principal Planning, Resources and Research Policy, Professor Jonathan Seckl. "It is intended to facilitate necessary and beneficial change in how we do things, how we engage with our city and impact on Scotland and the wider world."

The University is dedicated to data innovation in both teaching and research. For example, it is home to Europe's highest-ranking School of Informatics. Its world-class research in machine learning, robotics, computer science and artificial intelligence has spawned some 100 companies in recent years.

More sophisticated use of data allows better understanding and prediction of trends and behaviour, leading to improved services. One example of this can be found in University researchers' work with diabetes patients at the University's Usher Institute. Experts used vast data sets to ensure patients receive the best possible care at all points of contact within the NHS in Scotland. The work has significantly reduced the disease's harshest effects: blindness is reduced by 40 per cent and amputations by 42 per cent.

Boosted by the City Region Deal, these existing data science practices will be scaled

This university has been in the city, doing great things, for several hundred years combining our strengths with that of the region, to create something new, something very valuable. **Senior Vice-Principal Charlie Jeffery**

up and new ones developed. The process will change the University at both an operational and cultural level.

There will be three main emphases, according to Professor Seckl: "Outwardlooking researchers; talent generation; and industrial and public sector partners in the same place, breathing the same air."

The deal will facilitate these three areas by investing in major capital projects that will give a home to researchers, students and industries working on data-driven innovation. An example of this can already be seen in the recently created Bayes Centre, which will house computer scientists, engineers, mathematicians and industry colleagues working on fundamental computer and data science. Major partners such as Intel and Silicon Graphics are already lined up to move in to the building, on its completion in 2018.

In 2021, the Edinburgh Futures Institute will take up residence in the former Royal Infirmary and will pioneer how data can be used in the creative industries, financial sector, government and education.

The Usher Institute – working on health and social care data to improve care – currently exists virtually but the City Region Deal will

The National Robotarium – a partnership with Heriot-Watt University – will see advances in robotics, while staff working on the University's Easter Bush campus will work with environmental, genomics and genetic data, vital for improving agriculture.

"This is moving the University away from the traditional model of buildings in which academics and students mingle, but live their working lives apart from the rest of our city region," explains Professor Seckl. "It should be where students are rapidly exposed to the working world, to jobs and innovation."

The City Region Deal will further generate talent through lifelong education in the skills

needed for the data-driven economy, a sector that could be worth \$2.7 trillion in 2020, according to the International Data Corporation.

"This can't just be growth that simply benefits those who were already doing well," states Professor Jeffery. "It must be growth that is available to all. We have developed a strong emphasis on inclusion, making sure everyone across the region has a chance to develop those skills."

The demand for workers with digital skills in Scotland is 11,000 a year. However, only 4,000 a year are currently being produced. The University is working to ensure that the opportunities of the data-driven economy are available to everyone, at all stages of their

"We are looking at skills for the data economy across the life-course," explains Professor Jeffery. "We are looking at everything: how to adapt teacher training from primary school upwards; resources for primary and secondary schools; new forms of cooperation with colleges and other universities; and new ways of supporting on-the-job retraining and upskilling."

Goals set by the City Region Deal include training 100,000 people to flourish in the data economy over the next 10 years, and the creation of 40,000 to 50,000 new jobs. Datalab, an innovation centre hosted by the University, has an important role to play, offering business development support and training opportunities to both start-up and established businesses.

"In a sense, the City Region Deal is an opportunity to renew that civic tradition on which the University was founded," says Professor Jeffery. "This university has been in the city, doing great things, for several hundred years combining our strengths with that of the region, to create something new, something very valuable. The City Region Deal has the potential to be one of the landmarks in that centuries-long history."



Cracking the code to supporting technology in African schools

A lack of technology in sub-Saharan African schools has put millions of children at an educational disadvantage. Edinburgh graduate and PhD student James Turing has been working to remedy this through his foundation, the Turing

Having first visited Ghana in 2009, James was struck by the lack of technology in school classrooms. Since then he has been working tirelessly to repurpose computers for use in schools across Africa, and has also been working to plug the technology gap.

After gaining his MEng in Structural Engineering & Architecture from Edinburgh in 2015, James is now working towards his PhD in International Development. His research focuses on the circular economy in Kenya, which led to the founding of the Turing Trust and his innovative approach to reusing IT equipment.

"After working in rural African communities for a couple of years, I realised that we weren't able to support as many schools as we would like, with repurposed computers," explains James. "Many didn't have access to traditional on-grid electricity. This led us to establish SolarBerry, which is a solar energy experiment to see what we can do to solve that problem."

In the past year his efforts have not gone unnoticed. He became one of only 18 students to be awarded a grant from the Clinton Global Initiative (CGI) University Innovation Fund. The fund supports effective, high-impact student innovators and entrepreneurs from around the world.

Ms Megan Strawther, Community Engagement Manager for CGI, explains that the project was chosen for a grant because CGI believed the funds would be implemented thoughtfully and result in significant impact.

"James has consistently demonstrated his reliability, passion for the work, and a willingness to adapt to changing circumstances," says Ms Strawther. "He is tackling many issues, including lack of digital access within rural communities, the

I've been around these schools for nearly seven years and the desire for education is always awe-inspiring.

Mr James Turing

technological gap and, perhaps most significantly, access to educational resources. He has dedicated months of his life to really understanding the needs of these communities and we are confident that through his commitment, these areas will be significantly impacted."

As a direct result of the CGI funding, James and his colleagues were able to work closely with communities in Malawi to identify their specific needs. James is conscious that the Turing Trust works with in-country partners wherever possible and that the relationships with these contacts form the crux of their

"Our work isn't about white saviours going in and distributing things," he says. "We always work with in-country partners. In Malawi we are working with a charity called the Centre for Youth and Development. These partnerships truly define everything we do and without them we simply wouldn't have

"One of the first steps is getting teachers involved," he continues. "When they get a computer in their school you always find that teachers are some of the happiest beneficiaries. In their free time they can almost be guaranteed to be using the computers and improving their own digital skills, which then trickles down to the

For James the innovative aspect of the work is simply spending time with the communities and making sure that what is being done is actually working effectively: "We want to ensure that the computers stay working for the next five years or longer; that's our aim."

James hopes that the work of the Turing Trust will enable people from rural areas to catch up with their urban counterparts and create an equal distribution of digital opportunities.

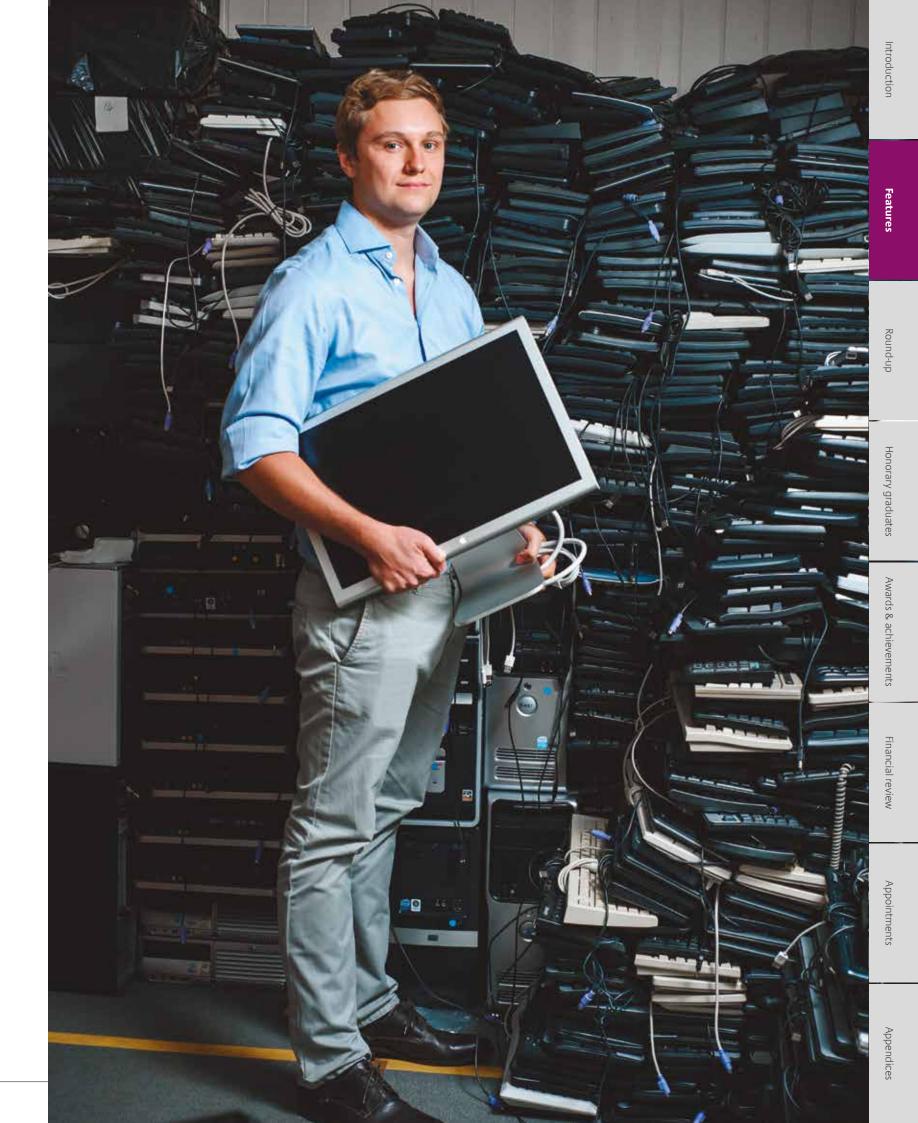
"I've been around these schools for nearly seven years and the desire for education is always awe-inspiring," he comments. "The conditions are extremely basic for many children. You don't think we live in a world where poverty is so endemic but people are genuinely malnourished. With education you sometimes think you're leapfrogging too far and that the focus should be on food rather than computers but we hope that our work can help improve circumstances in these

With his PhD work overlapping with the work of the Turing Trust, James is clearly grateful for the support his supervisors have offered him in the past few years. The University supported the Trust's efforts in a more practical way too: "Our workshop was based in High School Yards for the past two years and we would not have achieved so much if we didn't have that backing," comments James. "During that time we grew from delivering a few hundred computers a year to delivering 1,500 a year. We've crossed a hurdle thanks to the University's support."

James founded the Turing Trust in honour of his great uncle, the computer scientist and World War II code-breaker Alan Turing. His uncle's legacy is kept alive by James' work with the Trust. Alan Turing wanted technology to be available to all and was keenly aware that the underprivileged in the world require

"One of the lesser-known things about Alan was his charitable philosophy and the fact that he sponsored a refugee through higher education throughout his life," reveals James. Turing helped a young Jewish refugee from Vienna who arrived in the UK in 1939 by securing him a place in a public school and maintaining an interest in his career.

"When Alan was developing aspects of computing, he would never have wanted access to be restricted to only the wealthiest people in the world," says James. "Alan undoubtedly would have wished his technology and work to be shared the world over, which is what we are trying to do with the Turing Trust."



Over the past two years members of a student team, called HYPED, have spent countless hours pursuing a global challenge: to help design and build a futuristic travel system known as the Hyperloop.

The brainchild of billionaire entrepreneur Elon Musk, the Hyperloop is a mode of transport intended to take passengers over land in pods travelling at around 750mph in a near-vacuum tube. These pods are accelerated by linear induction motors and pass between stations using passive magnetic the UK – and one of just four European teams levitation. A pod could carry up to 20 passengers, and building a route linking Edinburgh and London could allow journey times of just 45 minutes.

The Edinburgh team's hard work and dedication was richly rewarded in 2017 as its achievements took members of HYPED halfway around the world and won them international recognition.

The team's President, electrical and mechanical engineering undergraduate Adam Anyszewski, believes its success is partly down to its diversity and the international mix of students involved.

"Team spirit is key," says Adam. "There are a lot of really ambitious students at Edinburgh, and at HYPED we are working together to try to do something interesting for our careers and the well-being of the world."

Founded in 2015 by a handful of engineering students, HYPED has since grown into a well-structured society with more than 100 members from disciplines including engineering, business, art and law.

Russian postgraduate Sophiya Volkova, who leads HYPED's six-strong legal team, is currently pursuing an MSc International Business with Emerging Markets, following her undergraduate studies in law at Edinburgh. She was initially drawn to the University by its prestige and the study options available: "The University's reputation was a big attraction – it's valued around the world," says Sophiya. "I also wanted to study law and combine it with Spanish, which is

Team spirit is key. There are a lot of really ambitious students at Edinburgh, and at HYPED we are working together to try to do something interesting for our careers and the well-being of the world. Mr Adam Anyszewski

something very few universities in the UK offer. Since I've been at Edinburgh, HYPED has become a very significant part of my life, and a definite highlight of my university

Last summer HYPED was the only group from - to reach the final of a contest to design and build a prototype Hyperloop pod. Out of 1,200 groups that submitted initial designs to the SpaceX Hyperloop Pod Competition, HYPED was one of only 24 teams invited to compete in the final in California.

Macauley Versey, who is currently studying electrical and mechanical engineering at Edinburgh, is an integral part of HYPED's technical team and rightly proud of its achievements: "The pod was built in around three months by a handful of HYPED members," he reports. "The fact we were able to build the pod in such a short timespan and take it to California to compete is

Despite putting in a strong performance in California, the team didn't win, but Adam believes HYPED can achieve this in future: "We firmly believe it's within our abilities to finish in one of the highest positions at the next SpaceX competition," he says. "Taking part was a huge logistical challenge – we moved 20 people and half a tonne of gear to the other side of the Atlantic – so this year we'll begin planning and building much

Since its inception, HYPED has drawn on the expertise, advice and experience of Professors Gordon Masterton and Win Rampen of the University's School of Engineering, who made an invaluable contribution to their efforts.

"I've met with the team weekly over the past vear to discuss technical issues," comments Professor Rampen. "It has been my privilege to work with this group of self-organised and highly motivated, visionary students."

Alongside their technical expertise in Hyperloop pod design, HYPED's business awareness was also demonstrated last summer when they became the only student team to win a top prize in a related commercial competition.

More than 2,600 teams registered for the Hyperloop One Global Challenge, which tasked teams with developing detailed plans for the most feasible routes to implement one of the world's first Hyperloop systems. HYPED's proposed route from Edinburgh to London was chosen as one of just 10 winners by an expert panel.

"Our ability to tackle both the technical and commercial challenges presented by the Hyperloop arguably makes HYPED the most accomplished student team working on the technology," says Adam.

HYPED were the only team to compete in both the SpaceX pod competition and also win Hyperloop One's business challenge.

Their involvement in Hyperloop One was led by Carolina Toczycka, the team's Head of Commercial, who is pursuing a PhD in data-driven innovation. Caroline highlights the key role played by the University in helping to create impactful societies: "The University enables students here to create and build amazing experiences for themselves through its support for societies like HYPED," she says. "I hope that we can inspire other people and show them that there is so much you can achieve as a society at Edinburgh."

As well as aiming for more success in the next SpaceX pod competition, the team is looking to further develop commercial ties with Hyperloop One and other companies. It is also working on an outreach programme aimed at encouraging more young people, particularly females, into STEM subjects. After a momentous year, the determination and drive of the students of HYPED is sure to propel them on to yet greater success.



The Students' Association Teaching Awards 2016–17

Now in their ninth year, the Students' Association Teaching Awards honour the very best contributions to the student learning experience made by teaching and support staff across the University.

More than 2,400 nominations were received from students for this year's awards, which took place in Teviot Row House on Thursday 27 April 2017.

Here we celebrate the winners and share some of the many positive and insightful comments made by the students who nominated them.



Best Innovative Assessment Fiona Duffy

School of Health in Social Science

for: Applied Psychology for Children and Young People

"We all developed new services, resources and training that are likely to be useful in the real world. I came out of the assignment with not only a good grade and a strong theoretical understanding, but I had a new mental health resource that I could discuss with future employers."



"She really cares about every student who passes through her doors. She uses her own experiences to connect to us and suggest the best ways forward."



Best Student Who Tutors Tim Squirrel School of Social & Political Science

"When you go to his tutorials, you know you have someone who cares about your academic development and who is there to prepare you for the trauma of your very first university essays."



Best Feedback Dr Carlos Soler Montes School of Literatures, Languages &

Cultures

"His feedback is beyond compare... he explains concepts thoroughly, diagnosing the individual strengths and weaknesses of each student while also seeking out 'teachable moments' that are useful for the entire class."





Best Support Staff Karen Howie School of History, Classics & Archaeology

"Karen is the linchpin of the School, without her and her IT team, I am convinced the School would fall apart. She is a gold standard employee and the University must never let her go."



Best Research or Dissertation Supervisor Sarah Dunnigan School of Literatures, Languages &

"Sarah's contribution to academic life has been her unwavering compassion and kindness as a supervisor. She is an inspirational educator who has supported countless students through their postgraduate studies."



Teaching in Science and Engineering Corinne Baulcomb School of GeoSciences

Van Heyningen Award for Best

"Corinne has blown me away by not only the sheer extent of expert knowledge that she has been able to convey precisely and clearly but also the enthusiasm and excitement that she has for the subject. The teaching has been fluid, fresh and challenging."



Dr Chris Breward and Dr Nikki Moran Edinburgh College of Art

for: Music, Style, Identity and Image in the Modern Age

"This is the first time we have had the opportunity to do a course that is truly cross-disciplinary. It is the only course I have taken which includes a wide range of students from all over the art school, including visiting students. The discussion in seminars is always lively and there has also been a refreshing amount of content about gender and race relations."



Kendell Award for Best Teaching in Medicine Dr Kate Byrne Edinburgh Medical School

"Kate is fully supportive of all her pupils, taking time to get to know each and every one of us. She strikes the perfect balance between offering knowledge and help and encouraging us to puzzle things out for ourselves."



Teaching in the Arts, **Humanities and Social Sciences** Dr Adam Budd School of History, Classics & Archaeology

"Adam's teaching is legendary and his courses are consistently popular. Students experience rich, well thought-out teaching; as an active researcher and an expert in his field, Adam's enthusiasm brings his subjects to life. He stands out from the crowd."





Best Teaching in Veterinary Science Jenna Richardson Royal (Dick) School of Veterinary Studies

"It is a challenging thing to make a 150+ seated lecture theatre of mixed-age, tired, unenthusiastic students feel re-enthused immediately after Christmas, but Jenna has done it from day one of our return."

Review of the year

A selection of news and events from August 2016 to July 2017

August 2016

Deep time illuminates Edinburgh castle

The world-famous Edinburgh International Festival launched with an epic, outdoor artwork of animation, lighting and music celebrating 350 million years of the city's history. The 18-minute display, Standard Life Opening Event: Deep Time, was enjoyed by almost 30,000 people who watched the breathtaking animation as it was projected onto Edinburgh Castle and Castle Rock accompanied by music from the Scottish band Mogwai.

University staff worked closely with 59 Productions to help produce the event, which was inspired by the concept of geologic, or 'deep', time, developed by alumnus and 'father of geology' James Hutton in the 18th century.

Professor Dorothy Miell, Vice-Principal and Head of the College of Arts, Humanities & Social Sciences, commented: "This spectacular show is another cutting-edge project demonstrating our long-standing and inspiring partnership with the Edinburgh International Festival and our pioneering work with the digital arts."

www.eif.co.uk/2016/deeptime

September 2016

The University welcomes all on Doors Open Day

The University took part in the annual Edinburgh Doors Open Day, one of the city's most popular free events. Promoted by the Scottish Civic Trust and coordinated by the Cockburn Association, the event offers people a rare opportunity to see inside some of the most important architectural, social and cultural buildings in the area.

With a 430-year history and an estate which includes many converted, listed and contemporary buildings, the University was able to offer an interesting and varied selection for the weekend-long event.

Visitors enjoyed access to buildings including the refurbished St Cecilia's Hall (pictured is a detail of the building's metal façade) in the University's Central Area; the FloWave Ocean Energy Research Facility at the King's Buildings; and the Anne Rowling Regenerative Neurology Clinic at Little France. Each building provided information to help visitors learn more about its history, design and day-to-day function, and many offered a range of activities, exhibitions and talks.

www.cockburnassociation.org.uk/edinburgh-doors-open-day

October 2016

Chemistry alumnus wins Nobel Prize

Edinburgh alumnus Professor Sir J Fraser Stoddart was awarded the Nobel Prize in Chemistry. The prize was awarded jointly to Professor Stoddart, Jean-Pierre Sauvage and Bernard Feringa for the design and synthesis of molecular machines. Professor Stoddart is one of the few chemists of the past 25 years to have created a new field of organic chemistry. His award recognises his development of a rotaxane molecule in 1991.

Professor Sir Timothy O'Shea, Principal of the University, welcomed the achievement: "For someone who has given so much to others throughout his career, we are thrilled that Professor Stoddart's work is being celebrated at the highest level."

Professor Stoddart, currently of Northwestern University in Illinois, received his BSc from Edinburgh in 1964 and a PhD two years later. He was also awarded a DSc degree by the University in 1980 for his research into stereochemistry beyond the molecule.

www.nobelprize.org

November 2016

Festival celebrates Gaelic community

The University was closely involved in the week-long Edinburgh Gaelic Festival, known as Seachdain na Gàidhlig in Gaelic. Among the highlights were the screenings of two Gaelic films, *Tron Doras* (pictured) and *Shepherds of Berneray*, at the University's 50 George Square, and a whisky tasting event led by the University's Water of Life Society, during which experts offered an insight into the pronunciation and meaning of Gaelic whisky names.

A new Gaelic journal was launched at the University in partnership with publishers Clàr during the festival. *STEALL* features established and up-and-coming new Gaelic writers. For the festival finale, the University's Highland Society hosted a ceilidh in Teviot Row House.

The annual festival is run by a dedicated committee of volunteers and is supported by Gaelic officers from the University and Iomairt Dhùn Èideann (the Edinburgh Gaelic Initiative).

www.ed.ac.uk/about/gaelic-language-plan

December 2016

University commits to cut carbon by 2040

The University's new Climate Strategy was launched, which aims for the institution to be zero carbon by 2040. Action is being taken across all of the University's activities, including research, learning and teaching, operations and responsible investment. The first scheme from the strategy was a £2.75 million initiative called the Sustainable Campus Fund to help bring to reality sustainability suggestions made by staff and students.

Edinburgh's world-leading climate research has secured more than £50 million in funding over the past seven years. The University has also invested more than £30 million in low-carbon and renewable technology on campus. Senior Vice-Principal Charlie Jeffery commented: "In this strategy, we commit to long-term goals to ensure we are leading the way in tackling climate change across all of our activities and recognising the core strength of the University as a globally connected, socially committed research and learning organisation."

www.ed.ac.uk/about/sustainability

lanuary 2017

Zebrafish aid quest to treat disease

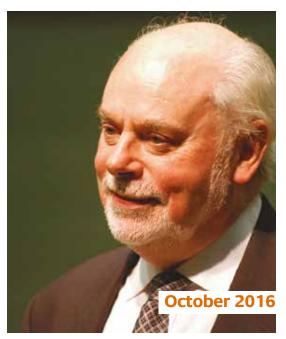
A study, published in the journal *Scientific Reports*, revealed how tropical fish are helping scientists to stop inflammation in the body. Researchers used specialised microscopes to watch neutrophils cells, that are part of the immune system, as they heal wounds in living zebrafish. Once an infection has been cleared, neutrophils usually self-destruct to prevent bystander damage to healthy tissues. Scientists discovered that a key molecule called CDK9 helps neutrophils to swerve the self-destruct process, keeping the inflammation going. Blocking CDK9 – using drugs called CDK9 inhibitors – triggered the neutrophils to die, resolving inflammation in the fish.

"These relatively simple fish are helping us to understand the fundamental process underpinning the resolution of inflammation, and will help discover new therapies for the treatment of inflammatory diseases," said Professor Adriano Rossi of the Medical Research Council Centre for Inflammation Research, where the research was carried out.

www.nature.com/articles/srep36980













Review of the year

February 2017

Enhancing skills through the Festival of Creative Learning

The University's Festival of Creative Learning saw more than 130 events open to all staff, students and members of the wider community. The week-long event aimed to give people an opportunity to work together and learn new skills.

Among the inspiring and creative offerings were a mathematics themed bake-off competition, a workshop showcasing the biological science behind glow-in-the-dark plants, and an introduction to mindfulness and beginners' Spanish – combining relaxation with learning a new language.

Run by the Institute for Academic Development, the Festival of Creative Learning builds on Innovative Learning Week, which ran from 2012 to 2016. It aims to celebrate and share good practices happening throughout the University, and support innovative ways of teaching.

www.festivalofcreativelearning.ed.ac.uk

March 2017

World's first national live music census takes place

For 24 hours in March, organisers of the UK Live Music Census monitored performances in cities across the country – including buskers, choirs, pub gigs and stadium concerts. The aim of the survey – a world first – was to help measure live music's cultural and economic value and inform policy to help it flourish.

The Arts and Humanities Research Council-funded census – conducted by the Universities of Edinburgh, Newcastle and Glasgow – recruited volunteers to record aspects of a gig including the musical genre, the venue and the audience demographic.

Dr Matt Brennan, Chancellor's Fellow, Reid School of Music, said: "Live music in the UK – from the Beatles and the Sex Pistols to West End musicals and Glastonbury – has transformed our culture, yet it is constantly under pressure. This census will help give us an accurate snapshot of the scene's health."

www.uklivemusiccensus.org

April 2017

Funding backs next stage of Roslin research

Research to improve the health, welfare and sustainability of livestock farming received a £29.3 million award from the Biotechnology and Biological Sciences Research Council (BBSRC). The funding is part of a £318 million UK-wide investment by the BBSRC to support strategic research programmes in the UK's National Institutes of Bioscience, of which the University's Roslin Institute is one

"The Institute plays a pivotal role in the University's mission to tackle the many pressing issues in animal health and welfare, including those which have implications for human health and sustainability of animals in the food chain," explained Professor Sir Timothy O'Shea, Principal and Vice-Chancellor at the University.

The funding will support three key programmes of research: how genes determine the healthy development and function of systems in the body; infectious diseases in farmed animals; and the role of genetic, environmental and dietary factors that affect livestock growth.

www.ed.ac.uk/roslin

May 2017

Edinburgh wins the Scottish Boat Race

Edinburgh rowed to victory over Glasgow rivals in the Scottish Boat Race. The annual rowing competition, held on the River Clyde, is the third oldest boat race in the world.

Edinburgh took the trophy after winning all seven of the races: the Graduates Race; Men's Beginner VIII; Novice Women's Race; Men's 2nd VIII; Women's 2nd VIII; Men's 1st VIII and Women's 1st VIII. Rowers included beginners, alumni, and senior men and women from Edinburgh University Boat Club.

The Boat Club, which celebrated its 150th anniversary in 2017, is one of the biggest sports clubs at the University with 230 members. It is one of only a handful of clubs in the UK to host a high-performance programme supported by the organisation British Rowing. The programme was awarded in recognition of the club's excellent track record nurturing world-class rowers.

www.edinburghrowing.co.uk

June 2017

Innovation celebrated at Inspire Launch Grow Awards

The 2017 Inspire Launch Grow (ILG) Awards were held in the University's Informatics Forum. The annual awards recognise University staff, researchers, students and alumni who have started a business or social enterprise or turned their research into a business opportunity. Prize money worth a total of £20,000 was awarded to winners of the Innovation Cup, Emerging Innovation Award, the Social and Environment Award and the Enterprise Award.

Grant Wheeler, Head of Enterprise Development at Edinburgh Innovations, commented: 'The entrepreneurial talent here at the University is among the best in the UK and this is reflected in the quality of this year's entries to the ILG awards. The presence of so many successful companies that started here at the University, during the Principal's term of office, highlights the first-class support that we provide to the student and staff network."

At the event, the Principal, Professor Sir Timothy O'Shea, was awarded with a Marty the Robot from Robotical, a previous ILG Innovation Cup winner, as a thank you for his support of ILG over the years.

www.launch.ed.ac.uk/ilg

July 2017

Dementia prevention hopes raised by £1.9m boost

A £1.9 million investment in dementia research was announced. The project – known as the TriBEKa Consortium – aims to give a clearer understanding of the first factors that determine risk of dementia. It brings together experts led by the University, the Barcelonabeta Brain Research Centre and Sweden's Karolinska Institute. The funding came from the US-based Alzheimer's Association and a donation from an anonymous international charitable foundation.

As part of the project, researchers will study the brain using positron emission tomography and magnetic resonance imaging. Participants in the study will also take part in memory tests, and family history and lifestyle assessments.

Professor Craig Ritchie, Director of the University's Centre for Dementia Prevention, said: "As brain changes that cause dementia happen many years before symptoms, we have an opportunity to prevent progression before people are affected. TriBEKa puts us in a unique position to understand how we might do this."

www.centrefordementiaprevention.com













Honorary graduations and other distinctions

Those awarded honorary degrees between 1 August 2016 and 31 July 2017





Professor Dr Elena Vladimirovna Boldvreva Head of Chair of Solid State Chemistry, Novosibirsk State University, Russia Doctor of Science



Ms Caroline Natalie Freedman University of Edinburgh appointed member on **RCVS** Council and active supporter and ambassador of the Royal (Dick) School of **Veterinary Studies** Honorary Fellow



Professor Bruno Latour Professor of Sociology, Institut d'Etudes Politiques de Paris (Sciences Po) Doctor of Science in Social Science



Mr Tom Nairn Author and academic Doctor of Science in Social Science



Professor Randy W Schekman Professor of Cell and Development Biology, University of California, Berkeley Doctor of Science

Mr Andrew James Scott

practitioner specialising

Artist and sculptural

Doctor honoris causa

in public art



Mr Brian Robertson and Mr Alastair Maclean Robert O Curle Charitable Trust Named after a former staff member, the trust supports medical and veterinary research at the University.



Mr Donald Hood Brydon CBE Chairman, Medical Research Council, London Stock Exchange and Sage Plc Doctor honoris causa



Galligan **Professor of Comparative** Politics, and founding Director, Centre for Advancement of Women in Politics, Queen's University Belfast Doctor of Science in Social Science



Ms Lilian Keddie Lawson OBE Retired Director of Scottish Council on Deafness Doctor honoris causa



Research Council Doctor of Science in Social Science **Mr Tony Oursier** Film and Video Artist

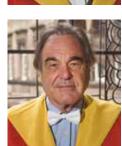
Professor Helga

Professor Emerita of

ETH Zurich, former

Social Studies of Science,

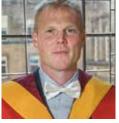
Nowotny



Mr Oliver William Stone Filmmaker Doctor honoris causa



Professor Kurt Roger Deketelaere Secretary-General of the League of European **Research Universities** Doctor of Laws



Dr Luke Robert Gamble Founder and Chief **Executive of Worldwide** Veterinary Service and Mission Rabies Doctor of Veterinary Medicine and Surgery



Linklater CBE Former Editor of The Scotsman, broadcaster and author Doctor honoris causa



Professor Sir Roger

Emeritus Rouse Ball

at the University of

Doctor of Science

Oxford

Professor of Mathematics



Mr Charles Basil Tilley Former Chief Executive of the Chartered Institute of Management Accountants Doctor honoris causa



Professor Dianne Edwards Research Professor and Director of Innovation and Engagement, Cardiff University Doctor of Science



Dr Alasdair Robert **Executive Director of** Blue Ventures Doctor of Science



Mr Joshua Howard Littlejohn Co-founder of Social Bite and social entrepreneur Doctor of Science in Social Science

Mr Robert Paul Madelin



Professor William Reid Dean of Postgraduate Medicine, Scotland Deanery (South East Region)

Doctor honoris causa



Mr Justin Pierre James Prime Minister of Canada Doctor honoris causa



Hermann Wernher Regius Professor of Civil Law, University of Oxford Doctor of Laws

Professor Wolfgang



Chief Executive Officer, Diamond Light Source Ltd, Honorary Professor, School of Chemistry, the University of Edinburgh Doctor of Science

Professor Andrew



Dr Michael Hugh Science journalist, producer



Dr Denis Rutovitz Retired section head. MRC Human Genetics Unit, now Chairman (and founder) of Edinburgh Direct Aid Doctor of Science



Vhiten **Professor of Evolutionary** and Developmental Psychology and Wardlaw Professor of Psychology, University of St Andrews Doctor honoris causa



Forrester Former Minister of St Michael's Church of Scotland, Edinburgh Doctor of Divinity



Professor Brigid Laffan Director of the Robert Schuman Centre for Advanced Studies and Director of the Global Governance Programme, **European University** Institute, Florence Doctor of Laws



presenter and executive Doctor of Science



Awards and achievements

A selection of accolades bestowed upon staff, students, alumni and associates of the University of Edinburgh between 1 August 2016 and 31 July 2017

Queen's Honours

New Year Honours

Professor Susan Deacon, Assistant Principal External Relations, was appointed Commander of the Order of the British Empire (CBE) for services to business, education and public service.

Professor Christopher Haslett, Director of the Queen's Medical Research Institute, was appointed CBE for services to medical research.

Simon Frith, Tovey Professor of Music, was appointed Officer of the Order of the British Empire (OBE) for services to higher education and popular music.

Susan Rhind, Chair of Veterinary Education at the Royal (Dick) School of Veterinary Studies, was appointed OBE for services to veterinary education.

The **Reverend Dr Harriet Harris**, the University Chaplain, was appointed Member of the Order of the British Empire (MBE) for services to multi-faith education.

Kathleen Hood, retired Head of Widening Participation, was appointed MBE for services to widening participation in higher education.

Birthday Honours

Dr Colin Adams, former Director of Commercialisation in the School of Informatics and Director of Informatics Ventures, was appointed CBE for services to innovation and entrepreneurship.

John Moore, Professor of Political Economy in the School of Economics, was appointed CBE for services to economics.

Polly Arnold, Crum Brown Chair of Chemistry, was appointed OBE for services to Chemistry and Women in Science, Technology, Engineering and Maths.

Mrs Margaret K Ross, Senior Lecturer for Dental Care Professionals and Programme Director for the BSc (Hons) Oral Health Sciences, was appointed OBE for services to dentistry.

University Awards

Chancellor's Awards 2016

These annual awards, presented by the University's Chancellor, are given in recognition of innovation, relevance, creativity and personal dedication in teaching and research.

Dr Jessie Paterson, Lecturer in Student Learning at The Royal (Dick) School of Veterinary Studies received the Award for Teaching.

Professor Andrew Rambaut, Chair in Molecular Evolution, School of Biological Sciences, received the Award for Research.

Professor Lesley McAra, Assistant Principal Community Relations and Chair of Penology, and **Professor Susan McVie**, Chair of Quantitative Criminology, School of Law, received the Award for Impact.

Dr Sam Spiegel, Lecturer in International Development and Director of Research at the Centre of African Studies, received the Rising Star Award, which honours early-career staff who demonstrate great potential.

Principal's Medals 2016

These medals are one of the most important ways in which the University recognises both support and academic staff or current students who have made outstanding contributions to both the University and wider communities. Recipients are nominated by colleagues or fellow students.

Amy Woodgate, Project Manager, Distance Education Initiative & Massive Open Online Courses (MOOCs), and the MOOCs Team, received the Exceptional Service medal in recognition of their major contribution in establishing the University's internationally leading reputation for delivering MOOCs.

Colin Adams, Director of Commercialisation, received the Service to the Community award in recognition of his work in leading the commercialisation activities within and beyond the School of Informatics.

Tam Dalyell Prize for Excellence in

Engaging the Public with Science The 2016 prize was awarded to **Professor** Jon Oberlander, Chair in Epistemics in the School of Informatics, who died suddenly and tragically in December 2017.

Research recognition

Nobel Prize in Chemistry

Professor Sir J Fraser Stoddart, alumnus of the University, has jointly been awarded the Nobel Prize in Chemistry for the design and synthesis of molecular machines. Professor Stoddart received his BSc from Edinburgh in 1964 and a PhD in 1966. In 1980 he was awarded a DSc.

Regius Chair of Medical Science

Professor Sir John Savill, former Head of the College of Medicine & Veterinary Medicine, was appointed to the Regius Chair of Medical Science at the University in recognition of his international reputation and outstanding contribution to medical research in investigating the molecular processes of inflammation.

Royal Commission for the 1851 Exhibition Medal

Professor Emeritus Peter Higgs, Nobel Laureate in Physics 2013, has received the Royal Commission for the 1851 Exhibition Medal for his outstanding contribution to physics. It is only the third time the medal has been awarded since its introduction in 2006.

British Medical Journal Imaging Team

The Clinical Research Imaging Centre and partners NHS Lothian won the BMJ Imaging Team Award for their SCOT-HEART trial using CT coronary angiography, which has led to a threefold reduction in standard invasive angiography, and led to a new model for testing people with chest pain.

Royal Scottish Geographical Society's W

Dr Andy Hein, a Chancellor's Fellow in the School of GeoSciences, was presented with the W S Bruce medal by the Royal Scottish Geographical Society. The award recognises his scientific research into the history of ice-sheet fluctuations in Antarctica.

Academia Europaea

Professor Ian Ralston, School of History, Classics & Archaeology, was elected as a member of the Academia Europaea. The Academia is a pan-European academy of science, humanities and letters with 4,000 members, including 72 Nobel Laureates.

Making an impact

Academic Association for Contemporary European Studies (UACES)

Professor Jo Shaw, Salvesen Chair in European Institutions received a UACES Lifetime Achievement Award, for her contribution to the development of European Studies as a discipline.

Tilden Prize

Professor Neil McKeown was awarded the Royal Society of Chemistry's Tilden Prize for advances in chemistry, for his work on making porous materials that can be used to separate substances or in safety sensors for the chemical industry.

Points of Light

Dr Andrew Murray, from the Physical Activity for Health Research Centre, was given a Points of Light award by the Prime Minister Theresa May. As well as volunteering his medical expertise, Dr Murray has raised more than £170,000 for charity through his extreme running achievements.

British Psychological Society's Award for Innovation in Psychology

The **Psychology** teaching team at the University was recognised for enhancements made to its undergraduate programme. Changes have been made to improve the active engagement of students in the course, and give them more experience with psychological research and transferable skills

Association of Human Rights Institutes Dr Kasey McCall-Smith, Edinburgh Law

School, was appointed Chair of the Association of Human Rights Institutes (AHRI). AHRI is an international network, which undertakes research and educational activities in the field of human rights, globally. Dr McCall-Smith will lead AHRI on behalf of the University's Global Justice Academy for a three-year term.

University Students' Association of the Year Award

Edinburgh University Students' Association received the accolade at the NUS Scotland 2017 Awards. The award recognises the progress the Students' Association has made over the past two years in seeking to become more inclusive and relevant to students.

Rising stars

Royal Society of Chemistry

Dr Andrew Lawrence, Senior Lecturer in organic chemistry, won the society's Hickinbottom Award, which is for contributions to organic chemistry from a researcher under the age of 35, for his work on improving how scientists make medicines, agrochemicals and other materials.

Dr Nicholle Bell. Research Fellow, won the Joseph Black Award for 2017, which is made to an early-career scientist in any field covering the practice and teaching of analytical science. Dr Bell won for her work in creating tools for assessing the status of peatlands.

British Ramsay Memorial Fellowship

Dr Jenni Garden, Christina Miller Fellow in the School of Chemistry, was awarded a two-year British Ramsay Memorial Fellowship which she will take up when her current fellowship ends in September 2018.

Royal Scottish Academy New Contemporaries

Seventeen 2016 graduates from Edinburgh College of Art were selected to exhibit at the Royal Scottish Academy's New Contemporaries exhibition, and won six awards:

Oliver Beetschen, Shimal Morjaria and **Jonathan Piper** won the RSA Architecture Prize; Frances Rokhlin won the Glenfiddich Artists in Residence Prize; Megan Hampton won the Friends of the Royal Scottish Academy Award; Doug Stevens won the Edinburgh Sculpture Workshop Graduate Research Award; Lucy Wayman was awarded the RSA Chalmers Bursary; and James **Howden Boyle** won the RSA Stuart Prize.

Royal Society of Edinburgh Prizes

Prizewinners from the University include: **Dr Sinead Rhodes**, Deputy Director of Salvesen Mindroom Centre - the Innovator's Public Engagement Prize; Professor Polly **Arnold** FRSE, the Crum Brown Chair, School of Chemistry – the Lord Kelvin Medal; **Dr Stephen Brusatte**, Chancellor's Fellow in Vertebrate Palaeontology, School of Geosciences – the Makdougall Brisbane Medal; Dr Mirko Canevaro, Chancellor's Fellow in Classics, School of History, Classics & Archaeology – the Thomas Reid Medal.

Fellowships

Royal Society

Four members of University staff have been elected Fellows of the Royal Society:

Professor Wendy Bickmore, Director of the MRC Human Genetics Unit; Christopher **Bishop**, Professor of Computer Science; Gabriele Hegerl, Professor of Climate System Science; and Josephine Pemberton, Professor of Molecular Ecology.

Michela Massimi, Professor of Philosophy of Science in the School of Philosophy, Psychology & Language Sciences, was awarded the society's prestigious Wilkins-Bernal-Medawar Medal for her work on communicating the philosophy of science.

Royal Society of Edinburgh Seven members of University staff have been

made fellows of the Royal Society of Edinburgh: Professor Tim Aitman, Professor of Molecular Pathology and Genetics and Director of Centre for Genomic and Experimental Medicine; Professor Christina Boswell, Professor of Politics; Professor Harald Haas, Professor of Mobile Communications; Professor Neil McKeown, Crawford Tercentenary Professor of Chemistry; Professor Jane Norman, Professor of Maternal and Fetal Health; Professor Alexander Tudhope, Head of School of GeoSciences and Professor of Climate Studies; and Professor Greg Walker, Regius Professor of Rhetoric and English Literature.

Academy of Medical Scientists

Three members of University staff were made Fellows of the Academy of Medical Scientists: Professor David Fitzpatrick, Joint Section Head of Disease Mechanisms in the MRC Institute of Genetics and Molecular Medicine Human Genetics Unit; Brian Walker, then Professor of Endocrinology and Head of the BHF Centre for Cardiovascular Science; and Charles ffrench-Constant, Professor of Multiple Sclerosis Research and Dean of Research at the Centre for Regenerative Medicine.

Financial review

It has been another year in which the University has operated in challenging circumstances, facing headwinds in UK public sector funding, more political uncertainty and higher education funding pressures. The University is well positioned for the future, and we will continue to innovate to maintain our position and reputation as an influential and world-class institution.

The University has made good progress over the past year, and we are confident that the institution is well placed financially to deal with its short and longer term commitments. While the consequences of leaving the EU are still somewhat ambiguous, our new framework, which focuses on online education and international partnerships, will ensure continued stability.

Nearly a fifth of the L £157 million, is earn three per cent lower year's performance.

Income from our end was £8.4 million, do last year, but the over

In an increasingly competitive environment we are pleased to have increased operational income by 4.3 per cent.

Total unrestricted comprehensive income for 2016/17 was £69 million, which was 55 per cent of total comprehensive income, representing funds available for reinvestment.

Funding council grants reduced by £2.7 million although there were significant offsets underlying the position. Recurrent teaching and research funding is on a reducing trend. However, funding for buildings and equipment was up by £3.4 million.

Our student population grew by six per cent in the year to 39,576 students. Tuition fee income rose by £23 million, up nine per cent. This growth was due to a seven per cent increase in international student headcount. The decline in Scottish and EU tuition fees is offset from Rest of UK (RUK) fees.

Research income from grants and contracts grew by four per cent (£11.4 million) on the previous year to £265 million.

The University achieved great success in winning research grants and contracts of £364 million, up by 36 per cent on last year's total of £268 million and 19 per cent up on the previous record of £305 million reported in 2014/15.

Nearly a fifth of the University's income, £157 million, is earned from other sources, three per cent lower (£4 million) than last year's performance.

Income from our endowment investments was £8.4 million, down seven per cent on last year, but the overall market return on investments (income plus capital appreciation) was 16 per cent (2016: 8.9 per cent). Other investment income grew by £1.6 million on last year and bank interest grew by £0.3 million to £3.4 million, an increase of 10 per cent.

Under Financial Reporting Standard (FRS) 102, revenue recognition rules mean that we include income from new donations and endowments accepted in the year. Donations increased in 2016/17 by £13 million to £20 million and we received £1.7 million from new endowments (down by £2.7 million on last year)

Group expenditure increased year on year by three per cent (£29 million), reflecting controlled investment for growth.

Staff costs as a proportion of total operating income were 53 per cent, compared to nearly 54 per cent in the prior year (excluding Research and Development Expenditure Credit). £15 million of the increase (54 per cent) was in academic and related support staff, with a further £8 million (30 per cent) invested in research grants and contracts staff as research income continued to grow.

Under FRS 102, we provide for our share of the University Superannuation Scheme recovery plan in the staff costs disclosure. In 2016/17 we have a net credit adjustment of £4.9 million as we unwind the opening provision.

Other costs, which include expenditure on subsidiary company activities, student accommodation, bursaries, premises costs and library services, have increased by £6 million (two per cent) from last year.

Depreciation accounted for five per cent of total spend (£47 million in 2016/17), up by 15 per cent (£6 million) on last year. This planned increase is due to the increased capital spend, reflecting the University's ambitious capital programme and commitment to investing in quality infrastructure and equipment.

Interest and other finance costs are £15 million. Two thirds of the charge, £9 million, is interest payable on borrowing and finance leases and £6 million is the net charge on pension scheme liabilities.

We are pleased to report continued strength in the University Group balance sheet. This strength was a key factor in securing long-term funding from which to invest in the transformational Estates Strategy and provides a strong covenant to the trustees of our pension funds. All balance sheet financial metrics are resilient.

This is the second year that we have aligned our Annual Report and Accounts to the International Integrated Reporting Framework, championed by the British Universities Finance Directors Group. Integrated reporting has provided a very useful framework within which we can demonstrate the huge value created by the University to our wide and distinctive group of stakeholders.

The above information reflects the audited accounts for the year to 31 July 2017, published in December 2017. Anyone interested in obtaining further information is invited to contact the University's Finance Department.

www.ed.ac.uk/finance/accounts

Consolidated statement of comprehensive income and expenditure for the year ended 31 July 2017

	Total 2017 £m	Result before exceptional items 2016 £m	Exceptional items 2016 £m	Total 2016 £m
Income	929	889	19	908
Expenditure	873	844	-	844
Operating surplus	56	45	19	64
Gain on disposal of fixed assets	8	1	_	1
Gain on investments	66	29	-	29
Tax	_	_	(4)	(4)
Surplus for the year	130	75	15	90
Revaluations surplus	_	7	_	7
Actuarial loss	(5)	(41)	-	(41)
Total comprehensive income	125	41	15	56
Represented by:				
Unrestricted comprehensive income	69	_	15	15
Endowment comprehensive income	49	28	_	28
Restricted comprehensive income	7	6	_	6
Revaluation comprehensive income	-	7	_	7
	125	41	15	56

Consolidated balance sheet as at 31 July 2017

1,617 212 531 266	1,493 212 471
531	471
266	255
200	255
2,626	2,431
(319)	(257)
(261)	(254)
2,046	1,921
392	343
48	41
1,398	1,329
208	208
2,046	1,921
	2,626 (319) (261) 2,046 392 48 1,398 208

Appointments

Appointments commenced between 1 August 2016 and 31 July 2017

College of Arts, Humanities & Social Sciences

Personal Chairs

Professor Rowena Arshad

Personal Chair of Anti-Racist and Multicultural Education

Professor Stefan Bilbao

Personal Chair of Acoustics and Audio Signal Processing

Professor Stephen Bowd

Personal Chair of Early Modern History

Professor Mary Brennan

Personal Chair of Food Marketing and Society

Professor Matthew Chrisman

Personal Chair of Ethics and Epistemology

Professor Paul Du Plessis Personal Chair of Roman Law

Professor Adam Fox

Personal Chair of Social History

Professor Alison Koslowski

Personal Chair of Social Policy and Research Methods

Professor Stephen Neff

Personal Chair of War and Peace

Professor Larissa Ryazanova-Clarke

Personal Chair of Russian and Sociolinguistics

Professor Kenny Smith

Personal Chair of Evolutionary Linguistics

Professor Genevieve Warwick

Personal Chair of History of Art

Professor Nuala Zahedieh

Personal Chair Economic and Social History

Professorships

Professor Francis Greene

Chair of Entrepreneurship

Professor Aisha Holloway

Chair of Nursing Studies

Professor Nasar Meer

Chair of Race, Identity and Citizenship

Professor JP Singh

Chair of Culture and Political Economy

Honorary Professors

Professor Peter Aspinall

Edinburgh College of Art

Professor Michael Clarke

Edinburgh College of Art

Professor Guy Jubb

Business School

Professor Chen Liming

School of Literatures, Languages & Cultures

Professor Li Yining

Business School

College of Medicine & Veterinary Medicine

Personal Chairs

Professor Colin Duncan

Personal Chair of Reproductive Medicine and Science

Professor Ross Houston

Personal Chair of Aquacultural Genetics

Professor Keisuke Kaii

Personal Chair of Biology of Reprogramming

Professor Simone Meddle

Personal Chair of Behavioural Neuroendocrinology

Professor Harish Nair

Personal Chair of Paediatric Infectious Diseases and Global Health

Professor Hilary Pinnock

Personal Chair of Primary Care Respiratory Medicine

Professor Martin Taylor

Personal Chair of Evolutionary Genomics

Professor Albert Tenesa

Personal Chair of Quantitative Genetics

Professor Mike Watson

Personal Chair of Bioinformatics and Computational Biology

Professor Christopher Weir

Personal Chair of Medical Statistics and Clinical Trials

Professor Anna Williams

Personal Chair of Regenerative Neurology

Professor Jim Wilson

Personal Chair of Human Genetics

Professorships

Professor Liz Baggs

Chair of Food and Environmental Security

Professor Appolinaire Djikeng

Chair of Tropical Livestock Genetics and Health

Professor David Dockrell

Chair of Infection Medicine

Professor Giles Hardingham

City of Edinburgh Chair of Pharmacology

Chair of Medical Statistics and Trial

Professor John Norrie

Methodology

Professor Geoff Simm

Chair of Global Agriculture and Food Security

Honorary Professors

Professor Lesley Colvin

Deanery of Clinical Sciences

Professor Steve Cunningham

Deanery of Clinical Sciences

Professor John Gillies

Deanery of Molecular, Genetic & Population Health Sciences

Professor Adam Hill

Deanery of Clinical Sciences

Professor Aileen Keel

Deanery of Molecular, Genetic & Population Health Sciences

Professor Ian Russell

Deanery of Molecular, Genetic & Population Health Sciences

Professor Roshini Sanders

Deanery of Clinical Sciences

Professor Richard Sharpe Deanery of Clinical Sciences

Professor Natalie Waran

Royal (Dick) School of Veterinary Studies

Professor Lesley Young Royal (Dick) School of Veterinary Studies

Personal Chairs

Professor Marialuisa Aliotta

College of Science &

Personal Chair of Experimental Nuclear Astrophysics

Professor David Aspinall

Engineering

Personal Chair in Software Safety and Security

Professor Tom Bruce

Personal Chair of Coastal and Maritime **Hydromechanics**

Professor Nick Colegrave Personal Chair of Experimental Evolution

Professor Ruth Doherty

Personal Chair of Atmospheric Sciences

Professor Kousha Etessami Personal Chair of Algorithms, Games, Logic and Complexity

Professor Vittorio Ferrari

Personal Chair of Visual Learning

Professor Andrew Goryachev

Personal Chair of Computational Cell Biology **Professor Catherine Heymans**

Personal Chair of Observational Cosmology

Professor Elham Kashefi Personal Chair of Quantum Computing

Professor Vasileios Koutsos

Personal Chair of Soft Materials and Surfaces

Professor Robert Mann Personal Chair of Survey Astronomy

Professor Simon Mudd

Professor Lev Sarkisov

Personal Chair of Earth Surface Processes

Personal Chair of Molecular Thermodynamics

Professorships

Professor Romeel Dave

Professor Grunde Jomaas

Professor Spyros Karamanos

Professor Simon Kelley

Chair of Isotope Geochemistry

Professor Finn Lindgren

Professor Murray Roberts

Professor Sarah Curtis

Dr Francisco Garcia

Professor Paul Glendinning

Chair of Physics

Professor Stephen Finney

Chair in Power Electronics

BRE Chair of Fire Safety Engineering

Chair of Structural Engineering

Chair of Statistics

Chair in Applied Marine Biology and Ecology

Honorary Professors

School of GeoSciences

School of Informatics

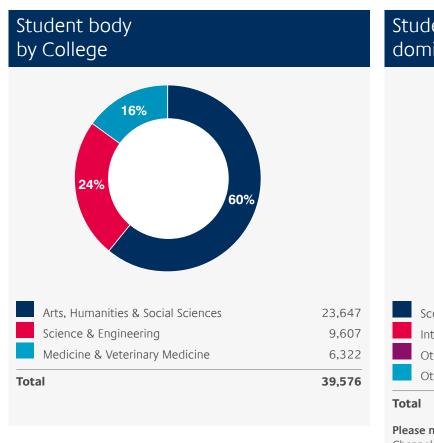
School of Mathematics

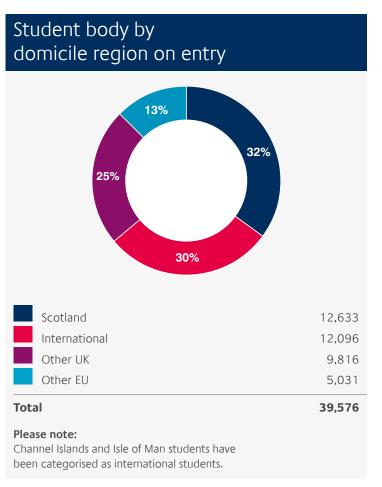
Student numbers

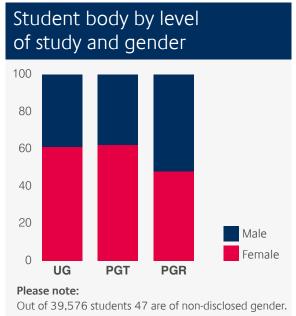
Level of study by Colle	ge			
	UG	PGT	PGR	Total
Arts, Humanities & Social Sciences	15,910	5,598	2,115	23,647
Science & Engineering	6,286	1,256	2,065	9,607
Medicine & Veterinary Medicine	3,033	2,111	1,178	6,322
	25,229	8,965	5,358	39,576

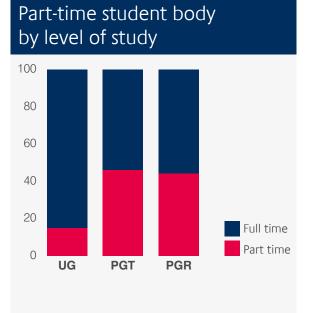
UG undergraduate PGT postgraduate taught

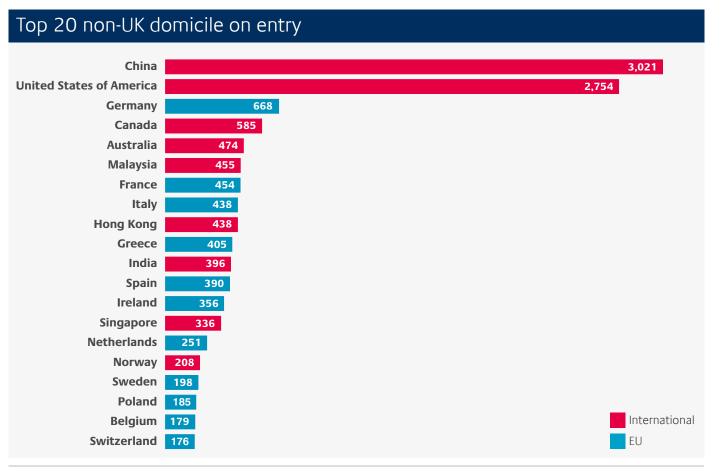
PGR postgraduate research











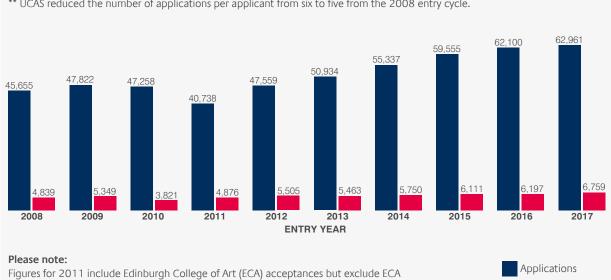
Please note:

The figures above represent all students matriculated during the session, with the exception of those exiting or interrupting their studies within five weeks of the first semester start date. Visiting students, part-time and distance learning students, and students on collaborative programmes are included. Domicile on entry is declared by the student when first matriculating onto their programme.

Undergraduate applications and acceptances

2008**		Men	Women	Total
Applications*		21,193	24,462	45,655
Acceptances		2,221	2,618	4,839
2009		Men	Women	Total
Applications*		22,523	25,299	47,822
Acceptances		2,479	2,870	5,349
2010		Men	Women	Total
Applications*		21,601	25,657	47,258
Acceptances		1,631	2,190	3,821
2011		Men	Women	Total
Applications*		18,549	22,189	40,738
Acceptances		1,981	2,895	4,876
2012		Men	Women	Total
Applications*		20,371	27,188	47,559
Acceptances		2,281	3,224	5,505
2013		Men	Women	Total
Applications*		21,707	29,227	50,934
Acceptances		2,286	3,177	5,463
2014		Men	Women	Total
Applications*		22,984	32,353	55,337
Acceptances		2,365	3,385	5,750
2015		Men	Women	Total
Applications*		24,563	34,898	59,555
Acceptances		2,395	3,714	6,111
2016		Men	Women	Total
Applications*		25,345	36,755	62,100
Acceptances		2,452	3,745	6,197
2017	Non-disclosed gender	Men	Women	Total
Applications*	8	25,735	37,218	62,961
Acceptances	<5	2,594	4,161	6,759

applications. Figures from 2012 onwards include both ECA applications and acceptances.



Acceptances

Appendix 3

Benefactions

Mr Mario D'Amico

Giving from 1 August 2016 to 31 July 2017

The University is grateful to all donors, including those who wish to remain anonymous.

The University is grateful to all o	donors, including those who
£1,000-£4,999	Ms Susan D'Amico
A Sinclair Henderson Trust	David Stevenson Trust
Afton Chemical	Mrs Joyce Denny
Allegro Microsystem Europe	Dr Maria Dlugolecka-Graham N
Ms Nicole Allison	Mrs Hazel Docherty
Amati Global Investors	Mr James W Dodds
Amazon UK Services Ltd	Mrs Eleanor K Eadie
Analog Devices Limited	Mr Dugald Eadie
Andrew Smith Memorial	Mr Robert Eden
Foundation	Edinburgh University Club of
Dr Edward Arens*	Toronto
Mr Michael J Avery	Eighteenth-Century Scottish
Dr Margaret Baird	Studies Society
Baldoukie Trust	Emma Cameron Foundation
Mr Geoff Ball FCA	The Hon Lord Ericht QC
The Late Miss Janet Balston	Mr Christopher Ewan*
Mr Christopher V Ban	Mr and Mrs Fairweather's
Bank of America Merrill Lynch	Charitable Trust
Barclay Viewforth Church	Dr Roualeyn Fenton-May*
Mr. Alan Ball	Fife Ladies Brass
Mr Alan Bell Mrs Frances Bell	Mr Stratos Filalithis
Mr David P Bendix	Flare Edinburgh Ltd
Ms Verna Bevilacqua	Mrs Doris Foreman
Professor Rajinder S Bhopal CBE	Rev Mrs Margaret Forrester
Dr Paul Binns	The Late Mrs Rosalind Fortune
Dr Stuart Blackie	Ms Caroline Fowler
Mrs Catherine Blight	Free Legal Advice Centre
Miss Dorothy Boardman	Professor David W Garland
Dr Stephen Bondurant*	Mrs Margaret M Garvie
BP Foundation Matched Giving	Mrs Elspeth Gibbon
Mr David Brook	Mr John Gibson
Sir Francis G Brooke Bt	Ms Marlene H Gilchrist
Professor Alice Brown CBE	Mr Ian A Godden
Mrs Ada Brownlie MBE	Mr George and Mrs Alison Gra
Mr W M and Mrs Toni E Buchan	Mr Murray Grant
Mrs Ann Burleigh	Mr Alan Gray
Ms Amanda Burstow	Mrs Gurpreet Grewal-Kang
Professor Ian Campbell	Mrs Judith A Halkerston
Mrs Sheila E Cannell	Mr T J D Hall
The Late Miss Audrey Capes	Hamilton & Inches
Dr J D Eric Carson	Mr Stuart Hardie
Ceva Animal Health	Mr Ian Harley
Dr Richard Chin	Dr Roy Harris OBE
Dr Andrew Chisholm	Dr Erik Hauge
Dr David J Clark*	Mr Atholl G Hay
Dr James Clunie	Hess Corporation*
The Late Mr Nicolas Coates	Dr Edward Ho
Mr Henry Cobbe	Mr Kenneth Hodcroft
Mrs Margaret K Cook	Ms Edith Holiday*
Mr Ctaphan Courden	Indie Semiconductor
Mr Stephen Cowden	
Ms Liz Daisley	Mr Malcolm Innes

o wish 1	to remain anonymous.
	Crematorium Management
	Ms Jane Irwin
	Ms Debra Isaacson
n MBE	Dr Brian Jamieson
	Dr David Jeenes
	Dr Michael Jesudason*
	John Alan Ferguson Charitab
	Trust
	Mr David Johnston
f	The Late Professor Christian J
	Dr John Keenan
	Mrs Jennifer Kerr Smith
	Mrs Joan D Kidd
I	The Late Mrs Margaret Kinne
	Mr James O Kirk
	Mr Joseph Kung*
	The Late Mr Thomas Laing-Re
	Mr David Lamb
	Mr Peter Lamb
	The Late Dr Margaret Langto
	Dr David Lenihan*
	Mr George Lewis
	Mr William Lewis
	Mr Alan P Liebing
ne	Mr Ben Lindwall
	Mr Andrew U Lyburn OBE
	Dr Angus Macarthur Mr A Donald M MacDonald C
	Mr W K Maciver CBE and
	Mrs Virginia Maciver
	Mrs Jacquelyn MacLennan
	Dr Mary Macleod
	Dr Margaret Macnair
	Dr Halina Marszalek-Lewicka
rant	Mrs Phyllis Massie
	Mrs F Massie
	Mr David A Massingham
	Mr Richard H Maudslay CBE
	Mrs Rosalind Maudslay
	Maxim Integrated Products U
	Miss Margaret Mayell
	Mayfield Salisbury Parish Chu
	of Scotland
	Mr David A McCorquodale
	The Hon Lord James McGhie
	Mr David and Mrs Morag McI
	Sir Ian McKellen
	Mr Ryan McKenna
	Mr Philip McNaull
	Mr John D McNeil
	Mr Paul Meitner
	Merck Foundation*
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^{*} Number of applications received in each cycle for entry in the same year or deferred entry the following year.

^{**} UCAS reduced the number of applications per applicant from six to five from the 2008 entry cycle.

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Marchig Animal Welfare Trust Mary Kinross Charitable Trust Mr David McIntosh The Late Mrs Mary McNab

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Association Dr Jim and Dr Marilyn Simons Dr George & Dr Joy Sypert* Terra Foundation for American

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£14,796,714

£36,886

£7,224

£5,000

£1,457

£100,078

£758,365 £1,678,241

£699,587

£6,731

Appendix 4

Research grants and other sources of funding

Sponsor type	Sum of award	Overseas – Charities
EU – Government	£38,877,363	Alzheimer's Association
European Commission	£38,877,363	Animal Charity Evaluators
•		Bill and Melinda Gates
EU – Industry	£1,495,495	Foundation
Airbus Operations GmbH	£19,215	Brain & Behavior Research Foundation
Akzo Nobel Coatings	C4E 2E2	CHDI Foundation Inc
nternational B.V.	£45,252	Found Animal Charity
Aprea AB	£103,308	Gordon and Betty Moore
Boehringer Ingelheim GmbH	£20,652	Foundation
CorPower Ocean AB Genomica S.A.U.	£40,000	John Templeton Foundation
Hendrix Genetics	£20,000	Melanoma Research Alliance
nter-SAGE Baie du Mont-Saint-N	£116,892	Melville Charitable Trust
		National Gallery of Art
Lipogems International SpA	£92,136	National Geographic Society
Network Engine for Objects in I		NCBI National Council for the
Novem Car Interior Design Gm		Blind of Ireland
PledPharma AB	£373,064	The Henry Luce Foundation
Royal Canin	£56,257	The Nature Conservancy
TriaGnoSys GmbH	£120,000	The Newberry
UCB Pharma S.A.	£123,510	The Research Society for Vict
/olvo Construction Equipment	£283,490	Periodicals
U – Other	£5,619,832	The Society for Comparative Endocrinology
Associazione Italiana Sclerosi Multipla	£61,458	Wenner-Gren Foundation
BIAL Foundation	£33,462	Overseas – Government an
iidgenössische Materialprüfung Ind Forschungsanstalt (EMPA)	gs- £40,000	Universities Academy of Korean Studies, 7
European Energy Research Allia	ince	CARB-X
(EERA) AISBL	£6,667	Columbia University
European Respiratory Society	£34,615	Defense Advanced Research
European Space Agency	£38,277	Projects Agency
Fondation Leducq	£3,960,004	Department of Defense
Foundation National Contest For Life	£38,462	DIPLOCAT Public Diplomacy Council of Catalonia
Human Frontier Science Progra	m	Georgetown University
Organization	£326,492	Japan Foundation Endowmer
Humanities in the European	C 400 5 40	Committee, The
Research Area	£496,546	Johns Hopkins University
National Center for Scientific Research, The	£147,308	McGill University
Organisation for Economic		Ministry of Culture, Republic China (Taiwan)
Co-Operation and Developmer	_	National Institute of Food and
Research Council of Norway, Th Social Sciences and Humanities		Agriculture
Research Council of Canada	£12,428	National Institute of Standard and Technology
Swedish Research Council	£151,055	National Science Foundation
Umeä University	£19,298	NordForsk
University of Oslo	£5,000	Office of Naval Research
University of Stavanger	£76,720	Project Management Institute
Zentrum fur Baltische und Skandinavische Archaologie (Centre for Baltic and Scandina	vian	Regents of the University of California
Archaeology)	£3,500	Research Foundation of City

	£8,226,643
Alzheimer's Association	£947,873
Animal Charity Evaluators	£6,789
Bill and Melinda Gates Foundation	£5,549,911
Brain & Behavior Research	C 4 0 2 7 C
Foundation	£48,276
CHDI Foundation Inc	£7,757 £655,601
Found Animal Charity Gordon and Betty Moore	1000,001
Foundation	£25,810
ohn Templeton Foundation	£278,739
Melanoma Research Alliance	£120,000
Melville Charitable Trust	£166,550
National Gallery of Art	£34,483
National Geographic Society	£16,667
NCBI National Council for the	
Blind of Ireland	£27,931
The Henry Luce Foundation	£274,194
The Nature Conservancy	£32,163
The Newberry	£1,724
The Research Society for Victorial Periodicals	n £13,775
The Society for Comparative	C4 027
Endocrinology Wenner-Gren Foundation	£4,827 £13,574
Universities	£2,437,250
Universities Academy of Korean Studies, The	£10,344
Universities Academy of Korean Studies, The CARB-X	£10,344 £561,340
Universities Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research	£10,344 £561,340 £110,000
Universities Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency	£10,344 £561,340 £110,000
Universities Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense	
Universities Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy	£10,344 £561,340 £110,000
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia	£10,344 £561,340 £110,000 £24,087 £125,792
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Japan Foundation Endowment	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Japan Foundation Endowment Committee, The	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Japan Foundation Endowment Committee, The Johns Hopkins University	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Iapan Foundation Endowment Committee, The Iohns Hopkins University McGill University	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Idapan Foundation Endowment Committee, The Iohns Hopkins University McGill University Ministry of Culture, Republic of China (Taiwan)	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Idapan Foundation Endowment Committee, The Iohns Hopkins University McGill University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Inpan Foundation Endowment Committee, The Inchns Hopkins University McGill University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and Agriculture National Institute of Standards and Technology	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813 £15,172 £195,613
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University In pan Foundation Endowment Committee, The Iohns Hopkins University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and Agriculture National Institute of Standards and Technology National Science Foundation	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813 £15,172 £195,613 £315,741 £25,862
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Iapan Foundation Endowment Committee, The Iohns Hopkins University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and Agriculture National Institute of Standards and Technology National Science Foundation NordForsk	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813 £15,172 £195,613 £315,741 £25,862 £21,643
Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Iapan Foundation Endowment Committee, The Iohns Hopkins University McGill University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and Agriculture National Institute of Standards and Technology National Science Foundation NordForsk Diffice of Naval Research	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813 £15,172 £195,613 £315,741 £25,862 £21,643 £80,762
Overseas – Government and Universities Academy of Korean Studies, The CARB-X Columbia University Defense Advanced Research Projects Agency Department of Defense DIPLOCAT Public Diplomacy Council of Catalonia Georgetown University Iapan Foundation Endowment Committee, The Iohns Hopkins University McGill University Ministry of Culture, Republic of China (Taiwan) National Institute of Food and Agriculture National Institute of Standards and Technology National Science Foundation NordForsk Office of Naval Research Project Management Institute, In Regents of the University of	£10,344 £561,340 £110,000 £24,087 £125,792 £30,429 £49,090 £2,220 £76,479 £33,813 £15,172 £195,613 £315,741 £25,862 £21,643 £80,762

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University of New York Social Trends Institute	£10,919
Terra Foundation for American A	£21,429
The George Institute for Global	Art £83,000
Health	£16,454
The Japan Foundation	£9,739
UK-India Education and Researc	
Initiative	£414,800
United States Department of	005.070
Agriculture	£95,272
University of Alberta	£27,500
University of California	£6,061
University of Sydney	£5,405
US Army Research Laboratory	£15,919
Yale University	£27,681
Overseas – Industry	£6,380,582
Agilent	£22,883
Biogen Idec	£535,754
Biological Process Science and	0100000
Technology Co, Ltd	£180,000
Clene Nanomedicine TM, Inc	£103,000
Cobb-Vantress Inc	£47,441
Corning Incorporated	£92,903
Daiichi Sankyo Company, Limite	
DePuy Synthes Galios Inc	£45,000
Gallos IIIC Genome Alberta	£61,764 £15,789
Google Inc	£159,131
Huawei Technologies Co, Ltd	£2,831,537
Input Output HK Limited	£861,362
Intercept Pharmaceuticals, Inc	£385,994
LEAP Therapeutics Inc	£326,308
Life Technologies Corporation	£14,483
Lockheed Martin	£125,000
Merck Inc	£271,743
Novartis Foundation	£5,600
Pfizer Inc	£11,100
Proctor & Gamble	£15,229
Retrophin	£55,357
Synopsys International Limited	£85,231
Thales UK Limited	£27,000
Zoetis	£92,973
Overseas – Other	62.016.070
FIL Foundation	£2,016,079 £947,873
National Institutes of Health	£286,398
Rett Syndrome Research Trust	£751,119
RIKEN	£20,690
World Health Organization	£10,000
	210,000
UK – Charities and Learned Societies	£0E 711 600
Academy of Medical Sciences	£85,711,609 £48,743
, additing of wichical sciences	- 10,173

Alan Turing Institute, The	£1,887,736
Alcohol Research UK	£57,511
Alzheimer's Research UK	£826,065
Alzheimer Scotland	£100,000
Alzheimer's Society	£610,601
Anatomical Society	£201,190
Arthritis Research UK	£310,706
Association for Public Service	
Excellence Scotland	£8,922
Association of Physicians of Great	
Britain and Ireland	£39,140
Asthma UK	£50,000
Bailey Thomas Charitable Fund	£90,860
Binks trust	£2,500
Biochemical Society	£2,000
Biomathematics and Statistics	
Scotland, Moredun Research Institute, The	£35,450
Brain Tumour Charity, The	£210,026
BRE Trust	£442,000
Breakthrough Breast Cancer	£106,878
Breast Cancer Campaign and	2100,010
Breakthrough Breast Cancer	£73,698
Breast Cancer Now	£216,840
Breast Cancer Research Trust	£100,000
British Association for American	
Studies	£1,570
British Heart Foundation	£5,012,096
British Institute of Persian Studies	£11,333
British Neuropsychological Societ	y £5,000
British Skin Foundation	£9,600
British Society for	
Neuroendocrinology	£5,000
	£5,000 £2,650
Neuroendocrinology British Teilhard Association, The Cancer Research UK	£2,650 £8,326,603
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities	£2,650 £8,326,603
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland	£2,650 £8,326,603 £286,639
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology	£2,650 £8,326,603 6 £286,639 7 £28,750
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiothera	£2,650 £8,326,603 6 £286,639 7 £28,750 by £6,653
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK	£2,650 £8,326,603 6 £286,639 7 £28,750 by £6,653 £18,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia	£2,650 £8,326,603 £286,639 y £28,750 by £6,653 £18,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group	£2,650 £8,326,603 6 £286,639 7 £28,750 by £6,653 £18,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherar Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute	£2,650 £8,326,603 £286,639 7 £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute Dogs Trust	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute Dogs Trust Dr Hadwen Trust	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572 £3,880
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute Dogs Trust Dr Hadwen Trust Dunhill Medical Trust	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572 £3,880
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute Dogs Trust Dunhill Medical Trust Edinburgh & Lothians Health	£2,650 £8,326,603 £286,639 £287,50 by £6,653 £18,000 £9,600 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572 £3,880 £185,751
Neuroendocrinology British Teilhard Association, The Cancer Research UK Carnegie Trust for the Universities of Scotland Centre for Ecology and Hydrology Chartered Society of Physiotherap Children with Cancer UK Children's Cancer and Leukaemia Group Clark Foundation for Legal Education Colt Foundation Crohn's and Colitis UK Cunningham Trust Cure Parkinson's Trust Cystic Fibrosis Trust Daiwa Anglo-Japanese Foundation Daphne Jackson Trust Darwin Trust of Edinburgh Diabetes Research & Wellness Foundation Diabetes UK Digital Health Institute Dogs Trust Dr Hadwen Trust Dunhill Medical Trust Edinburgh & Lothians Health Foundation	£2,650 £8,326,603 £286,639 / £28,750 by £6,653 £18,000 £3,987 £261,053 £74,597 £82,640 £59,878 £237,879 n £3,000 £34,446 £795,000 £160,670 £151,722 £197,309 £119,572 £3,880 £185,751

	£18,814
Fiona Elizabeth Agnew Trust	£9,128
Fire Service Research & Training	661.047
Trust, The	£61,947
Froebel Trust	£14,997
Genetics Society, The Great Britain Sasakawa Foundati	£4,700 on £12,100
Heritage Lottery Fund	£9,500
Hope Trust, The	£49,328
Horse Trust – Home of Rest for	L49,520
Horses	£100,344
Institute of Occupational Medici	ne £3,000
Institute of Physics	£1,000
International Institute for Environment and Development	£10,350
Juvenile Diabetes Research	
Foundation	£2,031,828
Kidney Research UK	£1,376,230
Leadership Foundation for Highe Education	£12,000
Leukaemia & Lymphoma Researc	ch £210,008
Leverhulme Trust	£2,562,997
Life Changes Trust	£2,310
Marie Curie Cancer Care	£310,698
Medical Research Scotland	£233,284
Medical Research Scotland (SHE	
Medical Schools Council	£30,160
Millar-McKenzie Trust	£2,500
Motor Neurone Disease Scotland	£294,869
Multiple Sclerosis International Federation	£32,000
Multiple Sclerosis Society	£348,249
National Eye Research Centre	£8,925
National Museums Scotland	£6,500
National Society for the Preventi	on
National Society for the Preventi of Cruelty to Children	on £79,900
National Society for the Preventi of Cruelty to Children NHS Blood and Transplant	fon £79,900 £6,748
National Society for the Preventi of Cruelty to Children NHS Blood and Transplant Oak Foundation	£79,900 £6,748 £349,997
National Society for the Preventi of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust	£79,900 £6,748 £349,997 £18,019
National Society for the Preventi of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid	£79,900 £6,748 £349,997 £18,019 £35,210
National Society for the Preventi of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 £teterinary £991 £7,000 £1,029
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £1,029
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £127,600 £299,403
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £127,600 £299,403
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons Edinburgh Royal Commission for the	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £127,600 £299,403 £2,000
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons Edinburgh Royal Commission for the Exhibition of 1851	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 £14,800 £17,000 £1,029 £127,600 £299,403 £2,000 £68,696 £149,558
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal Commission for the Exhibition of 1851 Royal Society	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 £14,800 £17,000 £1,029 £127,600 £299,403 £2,000 £68,696 £149,558 £3,057,636
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons Edinburgh Royal Commission for the Exhibition of 1851 Royal Society Royal Society of Edinburgh	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 £14,800 £17,000 £1,029 £1,029 £127,600 £299,403 £2,000 £68,696 £149,558 £3,057,636 £375,694
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons Edinburgh Royal Commission for the Exhibition of 1851 Royal Society Royal Society Wellcome Trust	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £127,600 £299,403 £2,000 £68,696 £149,558 £3,057,636 £375,694 £2,176,553
National Society for the Prevention of Cruelty to Children NHS Blood and Transplant Oak Foundation Ogden Trust Orchid Oxfam Scotland Paget's Association Pathological Society Petplan Charitable Trust PetSavers, British Small Animal V Association PSC Support Regional Studies Association Rosetrees Trust Royal Academy of Engineering Royal College of Physicians of Edinburgh Royal College of Surgeons Edinburgh Royal Commission for the Exhibition of 1851 Royal Society Royal Society Wellcome Trust Sanofi US	£79,900 £6,748 £349,997 £18,019 £35,210 £1,500 £30,000 £36,048 £14,800 eterinary £991 £7,000 £1,029 £127,600 £299,403 £2,000 £68,696 £149,558 £3,057,636 £375,694 £2,176,553 £62,802

Society for Applied Microbiology	
Society for Applied Microbiology	£3,408
Society for Endocrinology	£22,530
Society for Reproduction and Fertility	£15,205
Society for the Advancement of	
Management Studies	£4,500
Spina Bifida Hydrocephalus Scotl	
Strathmartine Trust	£9,748
Stroke Association	£799,807
Sylvia Waddilove Foundation UK	£2,000
Tenovus – Scotland	£11,800
The John S Cohen Foundation	£2,000
The Rooney Plastic Surgery and Reconstructive Surgery Trust	£95,493
The Shackleton Scholarship Fund	£2,500
Tommys Campaign	£420,000
Tropical Health and Education Trust (THET)	£111,890
Universities' China Committee in London	
Urology Foundation	£51,526
Waterloo Foundation, The	£46,261
Wellbeing of Women	£257,729
	£26,492,561
	£40,632,114
Advanced Propulsion Centre UK Limited	£30,000
Air Force Office of Scientific	
Research	£316,894
Research British Council	£316,894 £386,500
British Council	
British Council Chief Scientist Office Children's Commissioner for	£386,500
British Council Chief Scientist Office Children's Commissioner for England	£386,500 £4,285,680
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog	£386,500 £4,285,680 £940 £158,577
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment,	£386,500 £4,285,680 £940 £158,577
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International	£386,500 £4,285,680 £940 £158,577 Y
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment,	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953 ion £43,240
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health Forest Research GlaxoSmithKline, Scottish Fundir	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953 ion £43,240 £13,236,448 £34,646
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health Forest Research GlaxoSmithKline, Scottish Fundir Council Government Communications	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953 ion £43,240 £13,236,448 £34,646
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health Forest Research GlaxoSmithKline, Scottish Fundir Council Government Communications Headquarters	£386,500 £4,285,680 £940 £158,577 y £737,345 £81,271 £103,953 ion £43,240 £13,236,448 £34,646 ng £33,138 £122,274
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health Forest Research GlaxoSmithKline, Scottish Fundir Council Government Communications Headquarters Historic Scotland	£386,500 £4,285,680 £940 £158,577 Y £737,345 £81,271 £103,953 ion £43,240 £13,236,448 £34,646 ng £33,138 £122,274 £13,943
British Council Chief Scientist Office Children's Commissioner for England Commonwealth Scholarships Defence Science and Technolog Laboratory Department for Environment, Food and Rural Affairs Department for International Development Department of Business Innovat and Skills Department of Health Forest Research GlaxoSmithKline, Scottish Fundir Council Government Communications Headquarters	£386,500 £4,285,680 £940 £158,577 y £737,345 £81,271 £103,953 ion £43,240 £13,236,448 £34,646 ng £33,138 £122,274

National Institute for Health

National Records of Scotland

NHS Greater Glasgow and Clyde Board

NHS Health Scotland

Renfrewshire Council

Scottish Funding Council Scottish Government

South Lanarkshire Council

Scottish Enterprise

NHS Scotland

Research

Research grants and other sources of funding (continued)

Stratified Medicine Scotland –	
Innovation Centre	£648,000
UK Space Agency	£1,533,586
UK – Health Authorities	£352,695
Health Research Authority	£110,425
Leeds Teaching Hospital	£6,685
NHS Education for Scotland	£19,985
NHS Highland	£8,586
NHS Lothian	£207,014
UK – Industry	£6,966,006
AbbVie Ltd	£892,737
Albatern	£40,000
Aquila BioMedical	£10,000
ARM Limited	£35,000
Artemis Intelligent Power Ltd	£25,000
ARUP	£47,995
AstraZeneca	£580,327
AXA	£96,154
Becton Dickinson	£15,760
Bloomberg	£43,369
CelluComp Ltd	£7,500
CENSIS: Innovation Centre for	<u> </u>
Sensor and Imaging Systems	£61,357
Centre for Process Innovation	
Limited	£142,148
Concrete Marine Solutions	£40,000
Costain Oil Gas & Process Ltd	£71,504
Digital Catapult	£40,000
DNV GL UK Ltd	£40,000
ECO Animal Health	£90,833
Edinburgh Molecular Imaging Ltd	
Ericsson Media Services UK Limite	
European Marine Energy Centre	£40,000
Ferring Pharmaceuticals	£81,894
Floating Wind Turbines Ltd	£40,000
GALVmed	£41,502
Genius Foods Limited	£40,000
Geno	£126,059
Genus plc	£50,000
GlaxoSmithKline	£783,128
GlycoMar Ltd	£38,900
Golder Associates (UK) Ltd.	£3,000
Hologic Ltd	£20,000
Howden Group Limited	£25,518
Hyaltech Ltd	£100,000
iMC Worldwide	£87,450
INEOS Manufacturing Scotland	£20,000
International Paint Ltd	£13,544
Leica Biosystems	£30,000

Leonardo MW Ltd	£23,333
LTS International Limited	£107,537
LumiraDX Technology Limited	£12,924
MARS Chocolate UK Ltd	£100,000
Mentholatum Company Ltd, The	£15,000
Microsoft Research Ltd	£111,450
National Physical Laboratory	£27,000
Nosebleed Interactive Ltd	£36,272
Nova Innovation Ltd	£25,000
Novartis Pharmaceuticals UK Ltd	£172,014
Offshore Renewable Energy	£40,000
Catapult	£40,000 £30,000
Optos plc	
Pearson	£9,427
QinetiQ Group plc	£113,702
Route Monkey	£5,000
Samsung	£60,400
Sanofi Pasteur MSD Limited	£687,419
Scottish Water	£23,333
Selex ES Ltd	£36,918
Shop Direct Finance Company Limited	£74,000
Siemens Healthcare Limited	£30,000
Standard Life Investments Limited	£59,996
STMicroelectronics	£250,823
Sustainable Marine Energy Ltd	£80,000
Toyota	£119,695
UCB	£10,000
Wave Energy Scotland Limited	£731,585
Zyba Renewables Ltd	£90,000
UK – Research Councils £17	1,141,994
Auto and Humanitias Descend	

UK – Research Councils	£171,141,994
Arts and Humanities Research Council	£2,109,030
Biotechnology and Biological Sciences Research Council	£88,664,715
Bowel & Cancer Research	£32,000
British Academy	£814,750
Economic and Social Research Council	1 £5,953,372
Engineering and Physical Sciences Research Council	£31,156,655
Innovate – UK	£2,059,438
Medical Research Council	£30,159,815
National Centre for the Replace Refinement and Reduction of Animals in Research	t 186,334
Natural Environment Research Council	1 £8,404,103
Research Councils United King	dom £237,417
Science and Technology Facili Council	ties £1,364,364

UK – Universities etc.	£3,387,446
ARUK Scotland Network Centre	£13,499
British Association for Japanese Studies	£9,995
Cardiff University	£35,571
Edinburgh Napier University	£5,000
Energy Technology Partnership (E	
Faclair na Gaidhlig (Dictionary of the Scottish Gaelic Language)	£22,010
Imperial College London	£45,380
Institute of Latin American Studie	£1,800
Manchester Metropolitan Univers	ity £2,845
Scottish Crucible	£4,500
Scottish Imaging Network: A Platform for Scientific Excellence	te £45,000
University of Aberdeen	£73,461
University of Birmingham	£138,384
University of Dundee	£2,013,248
University of Glasgow	£22,464
University of Leicester	£358,277
University of Manchester	£156,297
University of Nottingham	£152,191
University of Oxford	£10,000
University of Sheffield	£25,447
University of Southampton	£61,883
University of St Andrews	£9,912
University of Stirling	£418
University of Strathclyde	£17,415
University of Warwick	£141,396
Welsh Thoracic Society	£10,000

Note: The above list sets out the total project value of research grants funded from these sponsors. The sponsor will have contributed this whole amount, with the exception of some governmental sources (including research councils) and charitable sources, who fund the majority, with the balance being received indirectly via the Scottish Funding Council.

£373,245,107

Please also note: rounding has been applied to the figures.

Grand Total



