

# QUADRAM INSTITUTE BIOSCIENCE

## Annual Report and Accounts

for the year ended 31 March 2023

Quadram Institute Bioscience is a company limited by guarantee and a registered charity: registered company number: 03009972; registered charity number: 1058499.

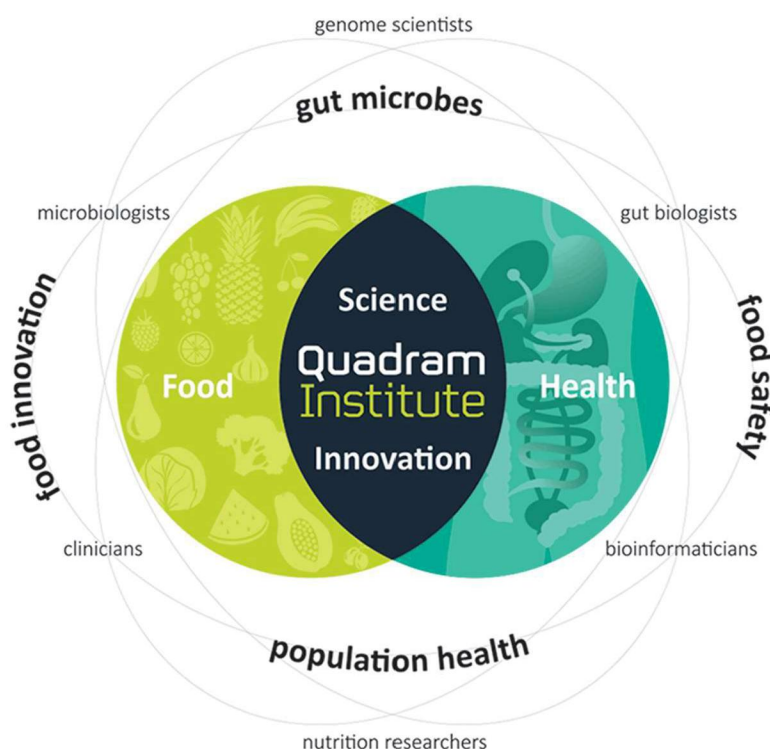
## ANNUAL REPORT CONTENTS

TRUSTEES' REPORT INCORPORATING THE STRATEGIC REPORT.....	3
INDEPENDENT AUDITOR'S REPORT .....	13
FINANCIAL STATEMENTS .....	15
NOTES TO THE ACCOUNTS.....	18
REFERENCE AND ADMINISTRATIVE DETAILS.....	31

## THE QUADRAM INSTITUTE

Quadram Institute Bioscience (QIB) is one of four founding partners in the establishment of the Quadram Institute – a multi-million-pound food and health research centre that was completed in autumn 2018.

The Quadram Institute is at the forefront of the interface between food science, gut biology and health, developing solutions to worldwide challenges in food-related disease and human health. It brings together the Quadram Institute Bioscience research teams, the Norfolk and Norwich University Hospitals NHS Foundation Trust (NNUH) and the University of East Anglia (UEA), as well as NNUH's regional gastrointestinal endoscopy unit and a clinical research facility.



The centre has been funded by the partners and the Biotechnology and Biological Sciences Research Council (BBSRC), part of UK Research and Innovation. The Quadram Institute has capacity for 300 research staff with a further 100 staff supporting one of Europe's largest endoscopy facilities. It is engaged in fundamental and translational food and health research, alongside clinical studies, endoscopy and industry, working together to become a leading international hub for food and health research. It combines scientific excellence and clinical expertise, delivering patient care and accelerating innovation.

The Quadram Institute maximises the unique world-class bioscience cluster based at the Norwich Research Park, including excellent plant and microbial science at the John Innes Centre and The Sainsbury Laboratory and computational science and sequencing expertise at the Earlham Institute.

## INTRODUCTION TO THE ANNUAL REPORT

The Quadram Institute Bioscience trustees (who are also directors in company law) are pleased to present their Annual Report together with the consolidated financial statements of the charity and its subsidiaries for the year ending 31 March 2023, which are also prepared to meet the requirements for a directors' report (incorporating a strategic report) and accounts for Companies Act purposes.

The Annual Report and Accounts have been prepared in accordance with the Accounting and Reporting by Charities: Statement of Recommended Practice (SORP), Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS102), together with the reporting requirements of the Companies Act 2006 and the Charities Act 2011.

The charity constitutes a public benefit entity as defined by FRS102.

## TRUSTEES' REPORT INCORPORATING THE STRATEGIC REPORT

### QUADRAM INSTITUTE BIOSCIENCE

The Quadram Institute Bioscience (QIB) is a BBSRC National Capability Institute purposed with understanding how food and microbes interact to promote health and prevent disease. QIB's research is supporting transformation of the food system to increase the availability of safe and nutritious food and enhance life-long physical and mental health. QIB leverages BBSRC strategic funding to attract investment from other research councils, funding organisations and industry to become a world leading institute for food and health research. Moreover, it is forging links with other world-class academics to become a hub for national and international networks

of related research organisations that promotes collaboration and training necessary to accelerate innovation and deliver solutions to UK and global food and health challenges.

### Charitable objective

The Charity's object is the worldwide advancement of education in food sciences for the public benefit by:

- undertaking research and disseminating the useful results of such research; and
- training research scientists.

### REVIEW OF THE YEAR

In early 2023, QIB was delighted to welcome Sir Patrick Vallance, the then UK Government Chief Scientific Adviser, and Prof. Robin May, Chief Scientific Adviser at the Food Standards Agency, to the Quadram Institute. Sir Patrick unveiled a plaque marking the formal opening of the institute. In June 2022 QIB submitted proposals for the next round of BBSRC strategic funding, which were initiated in April 2023.

Key milestones achieved in the year include:

- The Quadram Institute and the John Innes Centre are co-hosting The Biofortification Hub, which is one of six innovation hubs established by BBSRC in 2022 as part of the Open Innovation Research Club (OIRC) on diet and health. The Hub is funding research into biofortification to increase nutrient levels in crops and food.
- QIB has increased its interactions with policy makers, including written evidence provided by Dr Evelien Adriaenssens to the House of Commons Science and Technology select committee, which examined the use of bacteriophages to help tackle the global health challenge of antimicrobial resistance. QIB has also continued to participate

in the discussions with UK Government departments about the use of gene editing in agriculture. The Genetic Technology (Precision Breeding) Bill was recently passed.

- Three career track group leaders, Dr Naiara Beraza, Dr Falk Hildebrand and Dr Evelien Adriaenssens, demonstrated their respective international track records and gained tenure.
- Benefiting from capital investment by BBSRC, QIB acquired state-of-the-art equipment for two new facilities: a *Food Structure Analysis Facility* and a *Facility for the Culture and Analysis of Anaerobic Organisms*. BBSRC has also made a significant investment to create a facility for Faecal Microbiota Transplants (FMT) at Quadram Institute, which will give QIB and the NNUH the facilities required to progress a clinical service and further research into FMT.
- Professor Nathalie Juge was appointed Deputy Chief Scientific Officer (DCSO) in which role she will work with Prof Martin Warren, Chief Scientific Officer in developing QIB's scientific strategy.



### Scientific achievements during the year include:

- An international research team, led by Prof Alison Mather, has provided valuable new information about what drives the global spread of genes responsible for antimicrobial resistance (AMR) in bacteria. Without concerted efforts on a global scale, AMR will undoubtedly make millions more people vulnerable to infections from bacteria and other microorganisms that can currently be tackled with antimicrobials. The research examined the genomes of around two thousand resistant bacteria and found that different types of AMR genes varied in their temporal dynamics. Bacteria were studied from different geographic regions but also from diverse hosts including humans, animals, food (meat) and the environment (wastewater), to define how these separate but interconnected factors influenced the development and spread of AMR. Understanding the flow of genetic information within and between bacterial populations is key to understanding AMR transmission and the global spread of antimicrobial resistance. This knowledge will contribute to the design of vitally needed interventions that can halt AMR.
- Scientists and clinicians from the Quadram Institute and Norfolk and Norwich University Hospital have discovered that a broccoli-derived compound, known to reduce the risk and progression of prostate cancer, accumulates in prostate tissue. Cruciferous vegetables like broccoli have been associated with a lower risk of aggressive prostate cancer due to the activity of their breakdown compounds. These compounds, broken down by plant enzymes or gut bacteria, form biologically active compounds that protect against prostate cancer in cell and animal studies. Led by Robert Mills, Consultant Urological Surgeon NNUH, Dr Antonietta Hayhoe, QIB Human Study Lead and Tracey Livingstone Urology Research Fellow, the study conducted a clinical trial involving Norfolk patients with known or suspected prostate cancer who volunteered to take supplements before their routine biopsies. The research provides further evidence that dietary interventions with these compounds could benefit prostate cancer patients.
- Prof Rob Kingsley (QIB and the University of East Anglia) and his team have found that bacteriophage resistance, along with antimicrobial resistance, has contributed to the emergence of dominant strains of *Salmonella*. Bacteriophages, viruses that infect and kill bacteria, have been explored as potential allies in the fight against bacterial infections. *Salmonella enterica* serovar Typhimurium (*S. Typhimurium*), a major cause of bacterial disease globally, has demonstrated genetic flexibility, allowing it to adapt and overcome resistance. A new study examined the influence of bacteriophage resistance on *Salmonella* populations and their co-evolution. The dominant strain, ST34, shows high resistance to bacteriophages due to the acquisition of phage genetic material into its genome. However, phage resistance may limit the acquisition of new genetic material, including resistance genes, leading to a reduction in long-term adaptability of the bacteria. Genomic surveillance of these bacteria and their bacteriophages is crucial to identify emerging threats and develop effective countermeasures against them.
- QIB researchers have shown that simultaneously targeting two signalling switches that trigger angiogenesis, the growth of new blood vessels, might be the key to halting the spread of aggressive. The study by Dr Stephen Robinson (who has a joint appointment with the University of East Anglia) and his team highlights potential new approaches for treating cancer in humans. Tumours require a blood supply for growth, and they release signalling proteins to trigger blood vessel formation. Disrupting these proteins and their receptors on cell surfaces has shown limited success in slowing tumour growth. Researchers focused on neuropilin-1 and 2, co-receptors that bind to vascular endothelial growth factors (VEGFs), and found that simultaneously targeting both severely inhibited tumour angiogenesis, cancer growth, and metastasis. Targeting both receptors together had a more significant effect than targeting either receptor individually. The research opens up the possibility of targeting multiple proteins to achieve a synergistic anti-cancer response, thus restricting a cancer's ability to escape therapy.
- Prof Simon Carding, a researcher based at QIB and the University of East Anglia, and his team have discovered that transplanting faecal microbiota from young mice into old mice can reverse age-related effects in the gut, eyes, and brain. Conversely, microbiota from aged mice induced inflammation and vision impairment in young mice. The study suggests that gut microbes play a role in regulating the detrimental effects of aging and paves the way for potential gut microbe-based therapies to combat age-related decline. The findings highlight the connection between gut microbiota and healthy aging, shedding light on the possibility of manipulating diet and gut bacteria to promote good health in later life.



- Researchers from QIB, the University of East Anglia, and University of Cambridge have discovered that the maternal microbiome, the mother's gut microbes, plays a crucial role in placental development and healthy foetal growth. In mice, Prof Lindsey Hall and her collaborators found that a specific gut bacteria called *Bifidobacterium breve*, known for its health benefits, alters the mother's body during pregnancy, affecting placental structure and nutrient transport crucial for the growing baby. As *Bifidobacterium breve* is commonly used as a probiotic, this finding suggests potential strategies for preventing pregnancy complications and promoting healthy outcomes. The gut microbiome, composed of microbes in our digestive system, influences immunity, metabolism, and overall health by breaking down food and releasing active substances. While the impact of microbiome-mediated interactions on ageing is increasingly understood, their influence on foetal development remains largely unexplored. Further research is needed to validate these findings to determine if similar effects occur in humans, potentially offering a simple and cost-effective approach to enhancing pregnancy outcomes and lifelong well-being for both mother and child.
- QIB research leader Prof Nathalie Juge and her team have discovered the role of a gut bacterium, *Ruminococcus gnavus*, in influencing communication between the gut and the brain. This study provides evidence of how bacteria residing in the gut's mucosal lining can impact the brain and neurological disorders. Altering the gut microbiota through diet or microbial therapies is being explored as a means of maintaining mental health and preventing cognitive decline. In this study, by colonizing the intestinal mucus, *R. gnavus* influenced brain regulation, neurogenesis, and behaviour through the activation of immune cells and the release of metabolites. These findings shed light on the mechanisms underlying the gut-brain association and could inform future interventions to support cognitive health as people age.
- The Food Safety Research Network (FSRN), which is hosted at Quadram Institute Bioscience, was established in April 2022 to tackle, through innovation, the major challenges of microbial food safety in the UK. The central value proposition of the FSRN is to connect three related stakeholder communities - food businesses, food researchers, and food policy - into funded collaborations to collectively amplify the opportunity to improve the safety of UK foods. In the first year of its existence, the FSRN has: attracted over 80 formal members; the management team has hosted 105 one-to-one meetings with 56 different organisations; awarded nine collaborative research projects and run or planned five workshops to bring experts and stakeholders together to discuss challenges in larger areas of food safety. A series of project topics spans the network's three stakeholder communities, and its three priority areas: (1) reducing the microbial risk of known pathogens; (2) understanding the risk of alternative proteins and new plant-based foods; (3) applying food safety knowledge and new tools to ready-to-eat foods. Interest in the FSRN model was strong because it not only had a mechanism to capture knowledge and needs, but it has financial resource to provide as a key facilitator and motivator, enabling members to set to work on food safety solutions.

## Public engagement

The resumption of in-person events during the year saw QIB scientists and students take part in a wide range of public engagement events ranging from school visits to the Norwich Science Festival, British Science Week, the Norfolk and Norwich University Hospital Open Day, and the Fascination of Plants Open Day held on the Norwich Research Park.

PhD student Bushra Schuitemaker was chosen to feature in British Science Week's #smashingstereotypes national social media campaign and postdoctoral researcher Emma Waters' "What is a Scientist?" exhibition proved highly popular at the Norwich Science Festival and later went on show at Eaton Primary School and the other research institutes on the research park.

Quadram Institute scientists working on future foods and resistant starch attended the British Science Week in Leicester and 150 volunteers carried out taste tests on pretzels made with a novel chickpea flour which is higher in fibre. The results are being used to inform potential product development.

The BBC Radio 4 Today programme visited QIB laboratories and presenter Justin Webb interviewed Professor Simon Carding about his group's research into Myalgic Encephalomyelitis (ME). Research into ME also featured at the "STEM for Britain" finals at the Houses of Parliament where postdoctoral researchers Katharine Seton and Eleftheria Trampari presented their research into ME, and using microbes to prevent food spoilage, respectively.

## PLANS FOR 2023/24

### Key priorities

- Delivery of academic excellence.
- Embed new strategic programme structure.
- Review the QIB Science Strategy to incorporate the research detailed in the strategic grants.
- Further development of clinical and science interactions within Quadram Institute and across the Norwich Research Park.

QIB will continue to develop new research projects with our clinical colleagues at the Norfolk and Norwich University Hospital (NNUH). This will be achieved

using the clinical seedcorn fund, launched in 2022, through which NNUH clinical colleagues can take time out to engage with QIB research.

QIB will also be continuing the important work it undertakes in collaboration with the John Innes Centre, Earlham Institute, The Sainsbury Laboratory and University of East Anglia to engage with policy makers on such points as food safety and precision breeding of crops.

## GOING CONCERN

The financial statements have been prepared on a going concern basis which the Trustees consider to be appropriate for the following reasons:

The Trustees have prepared cash flow forecasts for the period to March 2028 which indicate that, taking account of reasonable possible downsides and the potential impact of inflation and COVID-19 on the operations and its financial resources, the Institute will have sufficient funds to meet its liabilities as they fall due for that period.

The Institute is reliant on its strategic programme funding from BBSRC, which was £8.2m in the year

(2022: £8.2m). BBSRC has confirmed continued strategic funding of £10.9m for the year to March 2024. BBSRC has also confirmed strategic programme funding allocation for 5 years to March 2028 of £10.9m per annum.

Consequently, the Trustees are confident that the Institute will have sufficient funds to continue to meet its liabilities as they fall due for at least 12 months from the date of approval of the financial statements and therefore have been prepared the financial statements on a going concern basis.

## FINANCIAL REVIEW

### Key performance indicators

QIB's key financial performance indicators during the year were as follows:

<i>Consolidated</i>	<b>2023</b>	2022
	<b>£m</b>	£m
Income excluding capital grants	<b>15.2</b>	18.0
Unrestricted general & designated strategic reserves	<b>14.2</b>	14.4
Cash	<b>22.9</b>	22.5
Value of grant submissions	<b>18.3</b>	18.6
Value of grant awards	<b>7.3</b>	5.7

The main indicator of non-financial performance is Institute publications in relevant scientific journals, as described in 'scientific achievements' above.

### Income

Total income for the year was £21.1m (2022: £18.8), including £5.8m of capital funding (2022: £0.7m). Income excluding capital grants was £15.2m (2022: £18.0m).

QIB's principal sponsor is the BBSRC, which contributed 77% of total incoming resources (2022: 57%). Other major sources of funding were the UK government agencies and charities. An analysis of grant income by principal sponsor is included in the notes to the financial statements.

### Expenditure

Total expenditure for the year amounted to £19.7m (2022: £18.2m). Staff costs accounted for £8.4m (42%) (2022: £8.0m; 44%) of expenditure.

### Fundraising

QIB does not carry out any significant fundraising activities.

### Subsidiaries

QIB's trading subsidiary – QIB Extra Limited - contributed an operating profit of £119,000 (2022: £544,000).

### Net Movement in Reserves

QIB recorded a net decrease in unrestricted reserves of £1m (2022: increased by £1.2m).

Restricted reserves increased by £2.3m (2022: decreased by £0.6m).

### Cash

Group cash at March 2023 was £22.9m (2022: £22.5m).

QIB deposits its cash with UK registered financial institutions that meet its credit rating policy and are subject to agreed counter-party limits. Investment income from cash deposits in the year was £370,000 (2022: £67,000).

### Reserves position

Total group reserves increased by £1.3m in the year to £40.0m (2022: increased by £0.6m to £38.7m).

Restricted reserves increased by £2.3m to £11.2m (2022: decreased by £0.6m to £8.9m), of which £2.5m relates to capital grant funding from BBSRC that may only be utilised on completion of performance conditions.

Unrestricted reserves decreased by £1m in the year to £28.8m (2022: increased by £1.2m to £29.7m).

Unrestricted reserves include the following:

- A building reserve of £1.25m was designated to cover the outstanding loan advances to QI Partners of £0.35m (2022: £1.25m) and energy cost increases;
- Strategic reserves of £9.8m (2022: £10.4m) have been designated to cover planned strategic programme and capital investment to support the development of the Quadram Institute. This reserve was anticipated to be mainly used between 2022 and 2023; and
- A general reserve of £4.4m (2022: £4.0m).

### Reserves policy

QIB's reserves are held to support financial solvency, manage uncertainty and fund future activities. The level of reserves required by QIB is therefore determined by reference to:

- Future operational and capital expenditure requirements in the Business Plan to March 2028;
- Potential financial risks identified in the Business Plan and Risk Register;
- Potential funding required for strategic investments not included in the Business Plan;
- Working capital / liquidity requirements.

As noted above, £1.25m has been designated in connection with QIB's loan commitments and energy cost increases. A further £9.8m has been designated in connection with planned investment in science programmes.

The general reserve of £4.4m (2022: £4.0m) is above the minimum general reserves target of £3.0m set by the Trustees.



## RISK ASSESSMENT AND MANAGEMENT

The Board of Trustees is responsible for ensuring there are effective and adequate risk management and internal control systems in place, and confirm that the major risks to which the Institute is exposed have been reviewed and procedures established to manage those risks. The Audit and Risk Committee agrees an annual risk-based internal audit plan which covers major risks identified by management and Trustees. It receives reports from internal auditors on the effectiveness of internal controls, progress against the internal audit plan and progress on recommendations made in reports. The Board reviews a full risk report annually, including a 'heat map' tracking major risks.

The principal risks and uncertainties facing the Institute are considered to be:

Risk area	Description of Risk	Management of Risk
Future BBSRC research funding	<ul style="list-style-type: none"> <li>➤ BBSRC strategic funding for institutes is reduced due to budgetary pressures.</li> <li>➤ BBSRC strategic funding is reduced due to scientific performance.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Regular monitoring of scientific performance against strategic programme objectives.</li> <li>➤ Regular communication with BBSRC to report performance and ensure strategic alignment of research programmes.</li> </ul>
Research income and sponsor diversification	<ul style="list-style-type: none"> <li>➤ QIB is unable to generate sufficient grant and commercial research income to support the costs of its research activities and infrastructure</li> </ul>	<ul style="list-style-type: none"> <li>➤ Investment in new research leader positions in progress.</li> <li>➤ Communication Strategy being developed to increase sponsor awareness of the Quadram Institute.</li> </ul>
Staff retention and recruitment	<ul style="list-style-type: none"> <li>➤ QIB is unable to retain or attract suitably skilled staff to enable it to deliver its science strategy.</li> <li>➤ In addition to scientific impact, this risk area could also have an impact on the level of funding the Institute is able to attract.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Strategy and action plans in place, aligned to development of Quadram Institute.</li> <li>➤ Career development programmes in place to support high potential staff.</li> <li>➤ Performance Management processes in place.</li> </ul>
Quadram Institute	<ul style="list-style-type: none"> <li>➤ Strategy for the Quadram Institute is not agreed between the partners.</li> <li>➤ The Quadram Institute is not able to attract suitably skilled staff to enable it to deliver its strategy.</li> <li>➤ Benefits from the project are not delivered.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Governance arrangements in place.</li> <li>➤ Strategy agreed and communicated.</li> <li>➤ Recruitment plans in progress.</li> <li>➤ Project plan in place, with identified work streams, terms of reference and appropriate partner representation.</li> <li>➤ Project assurance framework in place.</li> </ul>
QI Building	<ul style="list-style-type: none"> <li>➤ QI facilities management arrangements are poor value for money.</li> <li>➤ Inadequate investment leads to facilities that are not fit for purpose.</li> <li>➤ QI building is not used by partners in line with QI mission.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Building Services Committee established to monitor facilities management arrangements and tenant coordination.</li> <li>➤ Building operating costs regularly reviewed and remedial actions agreed.</li> <li>➤ Lifecycle maintenance plan agreed by the partners.</li> </ul>
Technology investment	<ul style="list-style-type: none"> <li>➤ QIB is unable to keep pace with developments in technology underpinning its science.</li> <li>➤ Funding is inadequate to sustain and improve technology facilities necessary to deliver scientific objectives.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Technology strategy has been updated alongside strategy for the Quadram Institute.</li> <li>➤ Small value capital funding awarded for the period to March 2028 as part of institute strategic grant award.</li> </ul>
Compliance with sponsor funding requirements	<ul style="list-style-type: none"> <li>➤ QIB fails to comply with sponsor grant requirements resulting in a material financial impact.</li> </ul>	<ul style="list-style-type: none"> <li>➤ QIB is subject to regular reviews of its grant compliance processes from sponsors and the internal auditors.</li> </ul>
Cost pressures	<ul style="list-style-type: none"> <li>➤ Increased energy prices divert resources from science to infrastructure costs, resulting in a reduction in research activity and impact.</li> <li>➤ High inflation rates increase research and support costs, resulting in a reduction in research activity and impact.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Energy costs are hedged in the short-term and specialist advisers support the institute with energy procurement.</li> <li>➤ Energy-saving opportunities are actively sought and investment cases developed.</li> <li>➤ The impact of cost inflation is regularly discussed with funders with a view to mitigating the impact on research.</li> </ul>

# TRUSTEES' REPORT

## GOVERNANCE AND MANAGEMENT

### Organisation and governance

Quadram Institute Bioscience (referred to as "QIB", the "Institute", the "Charity" or the "Company") is a company limited by guarantee (registered number 03009972) and a registered charity (number 1058499). During the year, QIB was governed by its Memorandum and Articles of Association adopted on 31 July 2018.

The financial statements have been prepared in accordance with the Charities Act 2011, the Companies Act 2006 and Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102).

### Board of Trustees

The Board of Trustees comprises an independent Chair, up to seven independent members and up to nine UEA-appointed members. The Trustees who served during the year and up to the date of signing these financial statements were:

Trustees	Sub-committees	Changes during the period
<i>At date of Report:</i>		
Dr C Caulcott (Chair)	Remuneration & Nomination Committee	-
Dr E Blair	Audit & Risk Committee; Remuneration & Nomination Committee	-
Prof F Lettice	Science Innovation & Advisory Committee (Chair)	Resigned 20 July 2023
Prof P Morgan	Remuneration & Nomination Committee (Chair)	-
Mr G Potter	Audit & Risk Committee	-
Dr E Robertson	Science Innovation & Advisory Committee	-
Mrs J Waterfield	Audit & Risk Committee (Chair)	-
Dr M Koufali	TBC	Appointed 1 September 2023
Ms G Fine	TBC	Appointed 1 September 2023
Prof B Reid	TBC	Appointed 17 November 2023

The Board has established sub-committees to assist in exercising their company and charity stewardship responsibilities. The Audit and Risk Committee oversees internal controls, risk management and audit. The Remuneration and Nominations Committee considers remuneration, nominations, talent and succession.

The Science Innovation and Advisory Committee assists the development and maintenance of QIB's science in relation to direction, balance, strategy and quality.

### Recruitment, induction and training of Trustees

The Remuneration and Nominations Committee leads the process for Board appointments and makes recommendations to the Board for the appointment of the Chair and Board Trustees. The appointment to

### Members

The Members are all guarantors of QIB, a company limited by guarantee and a registered charity, of an amount not exceeding £1.

The Members of QIB during the year were:

- UK Research and Innovation - Biotechnology and Biological Sciences Research Council ("BBSRC");
- the University of East Anglia ("UEA"); and
- the Norfolk and Norwich University Hospitals NHS Foundation Trust ("NNUH").

UEA is entitled to appoint a majority of the members of the Board of Trustees and accordingly is deemed to be the company's parent undertaking and controlling party. BBSRC, UEA and NNUH each have the right to nominate an "observer" to attend Board meetings. Observers are not entitled to vote and do not hold any authorities.

Chair is made in agreement with the Members. The Committee makes recommendations to the Board on the Board's composition ensuring that the Board has an appropriate balance of skills, capabilities, expertise, experience and diversity to allow it to meet its strategic and organisational objectives.

The Institute advertises nationally for prospective Trustees to ensure appropriate expertise on the Board is maintained. The Institute will also approach individuals thought to have the right skills.

New Board Trustees are invited to spend time with members of the executive team. This is a chance to learn about the Institute and get more involved with the institute's work. In addition to the five formal meetings, all Trustees receive regular presentations from QIB's scientists and briefings on key issues.



### Trustee remuneration

QIB remunerates Trustees where the Board considers payment is necessary to attract Trustees with specialist skills and experience. The power to remunerate Trustees is included in QIB's Articles of Association and has been approved by the Charities Commission.

During the year, Dr Celia Caulcott received £10,000 remuneration in connection with her role as Chair of QIB Board of Directors (2022: £11,177).

Four members of the Board of Trustees were reimbursed for travel expenses incurred during the year (2022: three). The total amount reimbursed was £847 (2022: £576).

### Key Management Personnel

The Trustees delegate management of the day-to-day activities of the charitable company to the Institute Director and Executive Board, who are considered to be the key management personnel for the institute. The Executive Board (EB) works to support the Institute Director in developing scientific, financial, business and administrative policy and strategy. EB will monitor policy implementation and ensure that such policy is embedded in the day-to-day working of the Institute. EB is supported by the executive Science Strategy Board and the Management Forum.

EB membership during the year was as follows:

- Institute Director (EB Chair)
- Director of Operations
- Chief Business Officer
- Finance Director
- Chief Scientific Officer / Leader Food and Health ISP
- Leader Gut Health & Food Safety ISP
- Leader Microbes in the Food Chain ISP
- Head of HR

### Employees

QIB staff that joined before 1 October 2011 were employed by BBSRC up to 1 October 2017, when they transferred employment to the Institute under TUPE.

Transferred employees retain their membership of the Research Councils Pension Scheme (RCPS), where applicable, with QIB becoming an admitted employer in the scheme. The RCPS is a defined benefit scheme funded from annual grant-in-aid on a pay-as-

you-go basis. The RCPS Pension Scheme is a multi-employer scheme and QIB is unable to identify its share of the underlying assets and liabilities. QIB therefore accounts for the scheme as if it were a wholly defined contribution scheme. As a result, the amount charged to the income and expenditure account represents the contributions payable to the scheme in respect of the accounting period. Liabilities for the payment of future benefits are the responsibility of the RCPS and accordingly are not included in these Financial Statements.

QIB has recruited all new staff from October 2011 on its own terms and conditions, covering basic pay and allowances, contractual payments, tax, NI, and liabilities for pension contributions and redundancy. Such staff are eligible to join a defined contribution scheme.

QIB employs a number of group leaders jointly with UEA. Staff are employed under QIB terms & conditions, but are eligible to join The University Superannuation Scheme (USS). QIB is obliged to pay the prevailing employer contribution rate for staff in the USS, however it has no liability for scheme funding deficits.

### Communication

QIB provides all staff with relevant information and seeks their views on matters of common concern through their representatives and through line managers. Priority is given to ensuring that employees are aware of all significant matters affecting QIB's position and any significant organisational change.

### Equality and Diversity

It is the Institute's policy to provide equal opportunities to job applicants and employees of any race, nationality, ethnic origin, marital status, religion or belief, gender, disability, sexual orientation, age or employment status. The Institute does not condone or tolerate any form of discrimination in its recruitment or employment practices. All employees and applicants are treated on merit, fairly, with respect and dignity, recognised as individuals and valued for the contribution they make, provided fair and equal access to training, development, reward and progression opportunities and are accountable for the impact of their own behaviour and actions. All the Institute's policies follow these principles.



## RELATED PARTIES

### Subsidiaries

QIB's subsidiaries in the year were as follows:

- QIB Extra Limited (contract research);
- IFR Enterprises Limited (dormant);
- IFR NRP Capital Limited (dormant).

### NBI Partnership

QIB has a 25% interest in NBI Partnership Limited ("NBIP"). NBIP supplies support and administrative services to QIB and the other Norwich Institutes (John Innes Centre, Earlham Institute and The Sainsbury Laboratory) on a not-for-profit basis. NBIP fully recharges its costs to the four research organisations and accordingly it generates no profit or loss.

### QI Partners

QIB is a member of QI Partners along with BBSRC, UEA and NNUH. QI Partners has been established for the purposes of constructing and managing the Quadram Institute building and providing such facilities for charitable use. QIB does not have any significant influence on QI Partners' financial and operating policies.

On 29 March 2019, QIB entered into a lease agreement for accommodation in the Quadram Institute building from QI Partners.

QIB has agreed to provide QI Partners with a loan facility of £5.4m, which is repayable between November 2018 and October 2024. As at 31 March 2023, £0.35m of the facility was drawn down by QI Partners (2022: £1.25m). The loan has been provided on an arm's length basis and interest is payable on the loan at a rate of 3.0% pa.

### University of East Anglia (UEA)

University of East Anglia is a member of the charitable company. UEA is entitled to appoint a majority of the members of the Board of Trustees and accordingly is deemed to be the company's parent undertaking and controlling party. The majority of QIB PhD students are registered with the UEA.

### Norfolk and Norwich University Hospitals NHS Foundation Trust (NNUH)

NNUH is a member of the charitable company. NNUH is entitled to appoint an observer to attend, speak and provide information to meetings of the Board of Trustees, however such observers have no right to vote at any such meeting.

### Anglia Innovation Partnership LLP (AIP LLP)

QIB is a member of Anglia Innovation Partnership LLP through its 100% subsidiary, IFR NRP Capital Limited. The objective of AIP LLP is to develop and sustain the Norwich Research Park as an international centre for

food, health, plant, microbial and environmental research, innovation and enterprise. QIB is entitled to receive a share of certain profits generated by AIP LLP, however it has no liability for losses or in the event of insolvency. AIP LLP has not yet generated any realised profits.

### BBSRC

BBSRC is a member of the charitable company. BBSRC is entitled to appoint an observer to attend, speak and provide information to meetings of the Board of Trustees, however such observers have no right to vote at any such meeting.

QIB is strategically funded, along with seven other institutes, by BBSRC. BBSRC supports QIB via strategic programme funding programmes, competitively won project grants and capital funding for infrastructure and technology investments. The principal terms and conditions under which BBSRC provides its funding are set out in the Institute Grant Agreement. Key conditions include:

- BBSRC and the Institute shall meet at least annually to review and discuss the implementation and progress of the Institute's business, including strategic and financial plans.
- The Institute shall submit a draft Business Plan, covering a period of at least five years, for discussion.
- The Institute will demonstrate appropriate plans for the maintenance, renewal and development of the estate through a rolling 10-year Institute Estates Strategy covering capital projects, long term and routine maintenance.

BBSRC is part of UK Research and Innovation (UKRI), an organisation that brings together the UK's seven research councils, Innovate UK and Research England.

## STATEMENT OF RESPONSIBILITIES OF THE TRUSTEES OF QUADRAM INSTITUTE BIOSCIENCE IN RESPECT OF THE TRUSTEES' ANNUAL REPORT AND THE FINANCIAL STATEMENTS

The trustees are responsible for preparing the Trustees' Annual Report and the financial statements in accordance with applicable law and regulations.

Company law requires the trustees to prepare financial statements for each financial year. Under that law they have are required to prepare the group and parent company financial statements in accordance with UK Accounting Standards and applicable law (UK Generally Accepted Accounting Practice), including FRS 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland.

Under company law the trustees must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the group and charitable company and of the group's excess of income over expenditure for that period. In preparing each of the group and charitable company financial statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and estimates that are reasonable and prudent;
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements; and
- assess the group's and the charitable company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern; and
- use the going concern basis of accounting unless they either intend to liquidate the group or the charitable company or to cease operations, or have no realistic alternative but to do so.

The trustees are responsible for keeping adequate accounting records that are sufficient to show and explain the charitable company's transactions and disclose with reasonable accuracy at any time the financial position of the charitable company and enable them to ensure that its financial statements comply with the Companies Act 2006. They are responsible for such internal control as they determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error, and have general responsibility for taking such steps as are reasonably open to them to safeguard the assets of the group and to prevent and detect fraud and other irregularities.

The trustees are responsible for the maintenance and integrity of the corporate and financial information included on the charitable company's website. Legislation in the UK governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

### Public benefit

The Trustees are satisfied they have complied with their duty in section 4 of the Charities Act 2011 to have due regard to public benefit guidance published by the Charities Commission. Based on this guidance, and as described in this Trustees' report, the Trustees believe the activities of Quadram Institute Bioscience to be charitable in nature.

### Insurance Disclosure

The Institute maintains liability insurance for its trustees, with an annual aggregate cover limit for all claims against them in that capacity. The trustees have also been granted a qualifying third party provision under section 233 of Companies Act 2006. Neither the Institute's indemnity nor insurance provides cover in the event that a trustee is proved to have acted fraudulently or dishonestly.

### Disclosure of information to auditor

The trustees confirm that:

- so far as each trustee is aware, there is no relevant audit information of which the Company's auditor is unaware, and
- the trustees have taken all the steps that they ought to have taken as directors in order to make themselves aware of any relevant audit information and to establish that the Company's auditor is aware of that information.

### Independent auditors

Larking Gowen LLP have been appointed as auditors and a resolution has been passed by the Board, concerning their appointment as auditors.

On behalf of the Board of Trustees



**Dr C Caulcott, Trustee Chair**

14 December 2023



## INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF QUADRAM INSTITUTE BIOSCIENCE

### Opinion

We have audited the financial statements of Quadram Institute Bioscience (the 'parent charitable company') and its subsidiaries (together the 'group') for the year ended 31 March 2023 which comprise the Consolidated Statement of Financial Activities, Consolidated and Charitable Company Balances Sheets, Consolidated Statement of Cash Flows and Notes to the Accounts, including significant accounting policies. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards, including Financial Reporting Standard 102 The Financial Reporting Standard applicable in the UK and Republic of Ireland (United Kingdom Generally Accepted Accounting Practice).

In our opinion the financial statements:

- give a true and fair view of the state of the group's and parent charitable company's affairs as at 31 March 2023, and of the group's incoming resources and application of resources, including its income and expenditure, for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

### Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the group and parent charitable company in accordance with the ethical requirements that are relevant to our audit of the financial statements in the UK, including the FRC's Ethical Standard, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### Conclusions relating to going concern

In auditing the financial statements, we have concluded that the trustees' use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the group's or parent charitable company's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

Our responsibilities and the responsibilities of the trustees with respect to going concern are described in the relevant sections of this report.

### Other information

The other information comprises the information included in the trustees annual report, other than the financial statements and our auditor's report thereon. The trustees are responsible for the other information contained within the annual report. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon. Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the course of the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

### Opinions on other matters prescribed by the Companies Act 2006

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the trustees' report (incorporating the strategic report and the directors' report) for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the strategic report and the directors' report have been prepared in accordance with applicable legal requirements.

### Matters on which we are required to report by exception

In the light of the knowledge and understanding of the group and parent charitable company and its environment obtained in the course of the audit, we have not identified material misstatements in the strategic report and the directors' report.

We have nothing to report in respect of the following matters in relation to which the Companies Act 2006 requires us to report to you if, in our opinion:

- adequate accounting records have not been kept by the parent charitable company, or returns adequate for our audit have not been received from branches not visited by us; or
- the parent charitable company's financial statements are not in agreement with the accounting records and returns; or
- certain disclosures of directors' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit.



### Responsibilities of trustees

As explained more fully in the trustees' responsibilities statement set out on page 12, the trustees (who are also the directors of the parent charitable company for the purposes of company law) are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the trustees determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the trustees are responsible for assessing the groups and parent charitable company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the trustees either intend to liquidate the group or parent charitable company or to cease operations, or have no realistic alternative but to do so.

### Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

### The extent to which the audit was considered capable of detecting irregularities including fraud

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud, is detailed below.

Due to the field in which the group operates, we identified the areas most likely to have a direct material impact on the financial statements as compliance with UK tax legislation, UK accounting standards, UK charity law and the Companies Act 2006. In addition, we considered the provisions of other laws and regulations which whilst not having a direct impact on the financial statements, are fundamental to the group's ability to operate including health and safety; employment law, and compliance with various other regulations relevant to the conduct of the group's operations.

Our approach to identifying and assessing the risk of material misstatement in respect of irregularities, including fraud and non-compliance with laws and regulations, included the following:

- Enquiries with management about any known or suspected instances of non-compliance with laws

and regulations, accidents in the workplace, potential litigation or claims and fraud;

- Reviewing legal and professional fees to confirm matters where the group engaged lawyers during the year;
- Reviewing financial statement disclosures and tax matters, and testing to supporting documentation to assess compliance with applicable laws and regulations;
- Reviewing board minutes and any relevant correspondence with external authorities;
- Challenging assumptions and judgements made by management in their significant accounting estimates, particularly in relation to the recognition of grant income; and
- Auditing the risk of management override of controls, including through testing journal entries and other adjustments for appropriateness, and evaluating the business rationale of any significant transactions outside the normal course of business.

Due to the inherent limitations of an audit, there is a risk that we will not detect all irregularities, including those leading to a material misstatement in the financial statements or non-compliance with regulation. This risk increases the more that compliance with a law or regulation is removed from the events and transactions reflected in the financial statements, as we will be less likely to become aware of instances of non-compliance. The risk is also greater regarding irregularities occurring due to fraud rather than error, as fraud involves intentional concealment, forgery, collusion, omission or misrepresentation.

A further description of our responsibilities is available on the Financial Reporting Council's website at:

<https://www.frc.org.uk/Our-Work/Audit/Audit-and-assurance/Standards-and-guidance/Standards-and-guidance-for-auditors/Auditors-responsibilities-for-audit/Description-of-auditors-responsibilities-for-audit.aspx>.

This description forms part of our auditor's report.

### Use of our report

This report is made solely to the charitable company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the charitable company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the charitable company and the charitable company's members as a body, for our audit work, for this report, or for the opinions we have formed.

*Larking Gowen LLP*

Anders Rasmussen (Senior Statutory Auditor)  
for and on behalf of  
Larking Gowen LLP  
Chartered Accountants & Statutory Auditors  
Norwich

# FINANCIAL STATEMENTS

## CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES

FOR THE YEAR ENDED 31 MARCH 2023

(Incorporating an income and expenditure account)

	Note	Unrestricted funds £000	Restricted general funds £000	Restricted capital funds £000	Total 2023 £000	Total 2022 £000
<b>Incoming resources</b>						
<i>Income from Charitable activities</i>						
Grant income		-	13,112	-	<b>13,112</b>	15,921
Capital and maintenance grants		-	566	5,254	<b>5,820</b>	744
Other charitable income		642	308	-	<b>950</b>	682
<i>Income from other trading activities</i>						
Trading income		791	-	-	<b>791</b>	1,276
<i>Investment income</i>						
		392	-	-	<b>392</b>	131
<b>Total income</b>	2	1,825	13,986	5,254	<b>21,065</b>	18,754
<b>Expenditure</b>						
Charitable activities		(3,227)	(14,578)	(1,260)	<b>(19,065)</b>	(17,269)
Raising funds		(184)	-	-	<b>(184)</b>	(166)
Trading expenditure		(487)	-	-	<b>(487)</b>	(729)
<b>Total expenditure</b>	3	(3,898)	(14,578)	(1,260)	<b>(19,736)</b>	(18,164)
<b>Net income/(expenditure)</b>		(2,073)	(592)	3,994	<b>1,329</b>	590
<i>Transfers</i>						
Capital transfers	17	(544)	-	544	-	-
Other transfers	17	1,637	(1,637)	-	-	-
<b>Net movement in funds for the year</b>		(980)	(2,229)	4,538	<b>1,329</b>	590
Funds brought forward	17	29,753	2,229	6,682	<b>38,664</b>	38,074
<b>Funds carried forward</b>	17	28,773	-	11,220	<b>39,993</b>	38,664

The Consolidated Statement of Financial Activities ("SoFA") includes all gains and losses recognised in the year. All incoming resources and expenditure relates to continuing activities.

The accompanying notes form part of these financial statements.

## CONSOLIDATED AND CHARITABLE COMPANY BALANCE SHEETS

AS AT 31 MARCH 2023

	Note	Group 2023 £000	Group 2022 £000	Company 2023 £000	Company 2022 £000
<i>Fixed assets</i>					
Tangible assets	9	22,074	18,914	22,074	18,914
Intangible assets	10	-	-	-	-
<b>Total fixed assets</b>		<b>22,074</b>	<b>18,914</b>	<b>22,074</b>	<b>18,914</b>
<i>Current assets</i>					
Debtors	12	6,619	5,313	6,365	5,043
Cash at bank and in hand	13	22,926	22,455	22,812	22,033
		<b>29,545</b>	<b>27,768</b>	<b>29,177</b>	<b>27,076</b>
<i>Current liabilities</i>					
Creditors: amounts falling due within one year	14	(11,626)	(8,018)	(11,381)	(7,865)
<b>Total net current assets</b>		<b>17,919</b>	<b>19,750</b>	<b>17,796</b>	<b>19,211</b>
<b>Total assets less current liabilities</b>		<b>39,993</b>	<b>38,664</b>	<b>39,870</b>	<b>38,125</b>
<b>Total net assets</b>	16	<b>39,993</b>	<b>38,664</b>	<b>39,870</b>	<b>38,125</b>
<b>Funds of the charity</b>					
<i>Unrestricted funds</i>					
Fixed assets reserve	17	13,317	14,069	13,317	14,069
Designated strategic reserves	17	9,831	10,423	9,831	10,423
Designated building reserves	17	1,250	1,250	1,250	1,250
General reserve	17	4,375	4,011	4,252	3,472
Total unrestricted funds		<b>28,773</b>	<b>29,753</b>	<b>28,650</b>	<b>29,214</b>
<i>Restricted funds</i>					
Fixed assets reserve	17	8,757	4,845	8,757	4,845
Restricted general	17	-	2,229	-	2,229
Capital reserve	17	2,463	1,837	2,463	1,837
Total restricted funds		<b>11,220</b>	<b>8,911</b>	<b>11,220</b>	<b>8,911</b>
<b>Total charity funds</b>	17	<b>39,993</b>	<b>38,664</b>	<b>39,870</b>	<b>38,125</b>

A separate income and expenditure account has not been presented for QIB as this is exempted by Section 408 of the Companies Act 2006. The profit after tax of QIB was £1,745,000 (2022: £76,000).

The financial statements on pages 15 to 30 were approved by the Board of Trustees on 14 December 2023 and were signed on its behalf by:



**Dr C Caulcott, Trustee Chair**

The accompanying notes form part of these financial statements.

Company registration number: 03009972



## CONSOLIDATED STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED 31 MARCH 2023

	Total 2023 £000	Total 2022 £000
<b>Cash flow from operating activities</b>		
Operating surplus	1,329	590
Interest receivable	(392)	(131)
Depreciation and amortisation	1,260	1,151
Capital grants received	(5,254)	(744)
Loss on disposal of tangible assets	7	67
(Increase)/Decrease in debtors	(2,206)	2,769
Increase/(Decrease) in creditors	3,608	(2,075)
<b>Net cash provided by/(used in) operating activities</b>	<b>(1,648)</b>	<b>1,627</b>
<b>Cash flow from investing activities</b>		
Interest received	392	131
Repayment of loan	900	1,550
Purchase of tangible assets	(4,512)	(1,054)
Disposal Proceeds	85	-
Capital grants received	5,254	744
<b>Net cash provided by/(used in) investing activities</b>	<b>2,119</b>	<b>1,371</b>
<b>Change in cash and cash equivalents in the reporting period</b>	<b>471</b>	<b>2,998</b>
Cash and cash equivalents at the beginning of the reporting period	13 22,455	19,457
<b>Cash and cash equivalents at the end of the reporting period</b>	<b>13 22,926</b>	<b>22,455</b>

The movement in net debt for the current and prior year is identical to the movements in cash flow set out above.

## NOTES TO THE ACCOUNTS

### 1. ACCOUNTING POLICIES

#### a. Basis of preparation

The group financial statements have been prepared under the historical cost convention and applicable accounting standards. They have also been prepared in accordance with Accounting and Reporting by Charities; Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (Charities SORP (FRS102), the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS102) and the Companies Act 2006.

The principal accounting policies adopted in these financial statements, which have been consistently applied, are:

#### b. Basis of consolidation

The consolidated financial statements incorporate the financial statements of Quadram Institute Bioscience ("QIB") and all its subsidiary undertakings in accordance with Financial Reporting Standard ("FRS") 102 "Accounting for Subsidiary Undertakings".

The financial statements of all group undertakings and associates are made up to 31 March 2023.

QIB is one of four members of QI Partners ("QIP"). QIP is accounted for as an investment rather than an associate and has not been consolidated in the QIB financial statements on the basis that QIB does not have significant influence over QIP financial and operating policies.

QIB is one of four members of NBIP Partnership Limited ("NBIP"). The group accounts for NBIP as an associate, although in practice the company makes no profit or loss and has net assets of NIL, therefore has no impact on the Group financial statements.

#### c. Going concern

The financial statements have been prepared on a going concern basis which the Trustees consider to be appropriate for the following reasons:

The Trustees have prepared cash flow forecasts for the period to March 2028 which indicate, taking account of reasonable possible downsides on the operations and its financial resources, the Institute will have sufficient funds to meet its liabilities as they fall due for that period.

The Institute is reliant on its strategic programme funding from BBSRC, which was £8.2m in the year (2022: £8.2m). BBSRC has confirmed continued strategic funding of £10.9m for the year to March 2024. BBSRC has provided the Institute with a strategic programme funding allocation for 5 years to March 2028 of £10.9m per annum.

Consequently, the Trustees are confident that the Institute will have sufficient funds to continue to meet its liabilities as they fall due for at least 12 months from the date of approval of the financial statements and therefore have been prepared the financial statements on a going concern basis.

#### d. Judgements in applying accounting policies and key sources of estimation

Preparation of the financial statements require management to make significant judgements and estimates. The items in the financial statements where these judgements and estimates have been made include:

- Depreciation, which has been charged in line with the accounting policy below. The amount of depreciation charged and net book value of the assets is included in Note 9.

#### e. Income

Charitable grant income represents grants received and receivable in the year from outside granting bodies and other miscellaneous income. Grants that provide core funding are recognised in the year in which entitlement passes. Grant funding received to undertake research is recognised in the year in which the obligation is fulfilled. Grant funding is released to match expenditure incurred during the year together with any related contributions towards overhead costs.

Trading income relates to the non-charitable services undertaken by QIB Extra Limited ("QIBX") and is recognised in accordance with the terms of the contracts entered into, reflecting the point at which the obligations of the company have been satisfied.

Investment income relates to interest receivable from treasury deposits and related party loans. The interest is recognised in the year in which it is earned.

Capital grants are recognised in the Consolidated Statement of Financial Activities ("SoFA") when entitlement passes, which is typically on receipt. Where capital funding includes terms and conditions that must be met before there is unconditional entitlement, the grant income is recognised as those conditions are met, which usually results in capital funding being recognised to match the capital costs incurred.

Where income has been received in advance of conditions being met, the income is deferred until those conditions have been fully satisfied.

#### f. Expenditure

Expenditure on charitable activities represents the full cost of the research performed. It includes the cost of direct staff, consumable stocks and indirect costs apportioned on the basis of use.

Costs of generating funds represent the cost of obtaining funds for research, preparing grant applications and raising the profile of QIB. Costs incurred in preparing grant applications, which primarily comprise staff costs, have been approximated based upon a sample review of time taken to prepare the detailed applications.

Governance costs represent the necessary cost of compliance with statutory and constitutional requirements and any other costs which are not direct charitable expenditure.

Support costs have been wholly allocated to charitable activity expenditure based upon activity as indicated in note 4 to the financial statements.



## NOTES TO THE ACCOUNTS

### 1. ACCOUNTING POLICIES (CONTINUED)

#### g. Restricted funds

Where research at QIB is funded by grants with conditions attached to them, these are shown as restricted. Capital grants received and receivable together with other restricted funds received and receivable and used to purchase tangible assets are included within restricted funds.

A restricted fixed assets reserve has been established representing the net book value of fixed assets purchased from capital grants. The reserve is shown as restricted due to continuing conditions in connection with the capital grants and assets purchased.

Restricted reserves include a designated capital reserve of £2.5m (2022: £1.8m) in connection with funding received from BBSRC, which may only be utilised in line with grant conditions.

#### h. Unrestricted funds

These include the strategic programme grants from the Biotechnology and Biological Sciences Research Council ("BBSRC") and any other grants which do not have specific conditions attached to them.

A fixed assets reserve has been established within unrestricted reserves representing the net book value of fixed assets funded from unrestricted reserves.

Unrestricted reserves that have been designated by the Board for specific purposes are shown in separate designated reserves. As at March 2023, £11.1m (2022: £11.7m) of unrestricted reserves have been designated in relation to planned capital and science investment associated with the development of the Quadram Institute.

#### i. Capital Transfers

A transfer from unrestricted to restricted reserves equal to the depreciation charge for assets purchased from unrestricted reserves is made as a capital transfer.

A transfer from restricted to unrestricted reserves is made following the completion of performance conditions in connection with restricted capital grant activity.

#### j. Other Transfers

A transfer from restricted to unrestricted reserves is made following the completion of performance conditions in connection with restricted non-capital grant activity.

#### k. Tangible fixed assets and depreciation

Tangible assets are shown at cost or valuation less accumulated depreciation. The cost of tangible assets is their purchase cost, together with any incidental costs of acquisition.

Depreciation is calculated to write off the cost or valuation less the estimated residual value of tangible assets by equal instalments over their estimated useful economic lives as follows:

Leasehold land and buildings	shorter of lease term or useful life
Plant and machinery	5 years
Scientific apparatus and eq.	5 to 10 years
Motor vehicles	4 years
Other apparatus and eq.	3 to 5 years

The leasehold improvements have been depreciated over the shorter of their estimated economic life and the remainder of the lease period.

Tangible assets under construction are not depreciated until the asset is in full use.

#### l. Intangible fixed assets and amortisation

Computer Software development costs are recognised as intangible fixed assets at cost less amortisation and any provision for impairment. Intangible assets are amortised over the estimated life of the asset acquired less any residual value.

Amortisation is calculated to write off the cost or valuation less the estimated residual value of intangible assets by equal instalments over their estimated useful economic lives as follows:

Computer Software	3 to 5 years
-------------------	--------------

Intangible assets under construction are not amortised until the asset is in full use.

#### m. Cash balances held as grant co-ordinator

Cash balances held on behalf of the European Union in the charitable company's capacity as grant co-ordinator are included within cash on the charitable company's balance sheet, and details are disclosed in note 20 to the financial statements.

#### n. Debtors

Debtors are non-interest bearing (excluding loan balances) and are stated at their nominal value, as reduced by appropriate allowances for estimated irrecoverable amounts.

Included in debtors is a loan of £0.35m provided to QI Partners, which is repayable between November 2018 and October 2024. The loan has been provided on an arm's length basis and interest is payable on the loan at a rate of 3.0% pa.

#### o. Trade creditors

Trade creditors are non-interest bearing and are stated at their nominal value.

#### p. Provisions

A provision is recognised in the financial statements where there is a legal or constructive obligation to transfer economic benefit to a third party.

## NOTES TO THE ACCOUNTS

### 1. ACCOUNTING POLICIES (CONTINUED)

#### q. Staff and Pensions

All staff employed by QIB (formerly Institute of Food Research) on 30 September 2011 became BBSRC employees on 1 March 2012 and were deployed back to the Institute under conditions set out in the Deployment Agreement (the "Deployed Employees"). The Deployed Employees remained with the Institute on an exclusive and full-time basis and day-to-day direction and line management of the Deployed Employees was delegated to QIB, subject to the terms of the BBSRC Employment Contract. QIB retained responsibility for paying employment costs in relation to the Deployed Employees, including basic pay and allowances, contractual payments, tax, NI and pension contributions.

On 1 October 2017, Deployed Employees transferred employment to the Institute under TUPE.

Deployed Employees retain their membership of the Research Councils Pension Scheme (RCPS), where applicable, with QIB becoming an admitted employer in the scheme. The RCPS is a defined benefit scheme funded from annual grant-in-aid on a pay-as-you-go basis. The RCPS Pension Scheme is a multi-employer scheme and QIB is unable to identify its share of the underlying assets and liabilities. QIB therefore accounts for the scheme as if it were a wholly defined contribution scheme. As a result, the amount charged to the income and expenditure account represents the contributions payable to the scheme in respect of the accounting period. Liabilities for the payment of future benefits are the responsibility of the RCPS and accordingly are not included in these Financial Statements.

QIB staff that joined after 30 September 2011 are eligible to join a defined contribution scheme.

The Company employs some staff jointly with the University of East Anglia. Staff are employed under QIB terms & conditions,

but are eligible to join The University Superannuation Scheme (USS). QIB is obliged to pay the prevailing employer contribution rate for staff in the USS, however it has no liability for scheme funding deficits. Accordingly, these arrangements have been accounted for as defined contribution scheme.

#### r. Termination benefits

Redundancy payments are recognised as a liability and an expense only when the event is demonstrably committed to by either: a. termination of the employment of an employee or group of employees before the normal retirement date, or b. provision of termination benefits as a result of an offer made in order to encourage voluntary redundancy.

#### s. Operating Leases

Rentals payable under operating leases are charged to the Statement of Financial Activities on a straight-line basis over the lease term.

#### t. Foreign currency transactions

The functional and reporting currency of the charity is pounds sterling.

Transactions in foreign currencies are recorded at the rate of exchange ruling at the date of the transaction. Assets and liabilities denominated in foreign currencies are translated at year end exchange rates.

All gains and losses are taken to the Statement of Financial Activities in the year to which they relate.

#### u. Financial instruments

Financial assets and financial liabilities are recognised upon becoming a party to the contractual provisions of the instrument.

The group only enters into basic financial instrument transactions that result in financial assets and liabilities like trade and other accounts receivable and payable.



## NOTES TO THE ACCOUNTS

### 2. ANALYSIS OF INCOMING RESOURCES

	Research activities £000	Other activities £000	Total 2023 £000	Research activities £000	Other activities £000	Total 2022 £000
<b>Grant income</b>						
BBSRC	10,495	-	10,495	10,031	-	10,031
Other government departments	1,517	-	1,517	4,299	-	4,299
European Union	261	-	261	754	-	754
Other grants	839	-	839	837	-	837
<b>Total grant income</b>	<b>13,112</b>	<b>-</b>	<b>13,112</b>	<b>15,921</b>	<b>-</b>	<b>15,921</b>
<b>Capital and maintenance grants</b>						
BBSRC						
Capital expenditure	5,254	-	5,254	744	-	744
Other grants						
Capital expenditure	566	-	566	-	-	-
<b>Total capital grants</b>	<b>5,820</b>	<b>-</b>	<b>5,820</b>	<b>744</b>	<b>-</b>	<b>744</b>
<b>Other charitable income</b>						
Miscellaneous income	-	950	950	-	682	682
<b>Total other charitable income</b>	<b>-</b>	<b>950</b>	<b>950</b>	<b>-</b>	<b>682</b>	<b>682</b>
<b>Trading income</b>						
QIB Extra	-	791	791	-	1,276	1,276
<b>Total trading income</b>	<b>-</b>	<b>791</b>	<b>791</b>	<b>-</b>	<b>1,276</b>	<b>1,276</b>
<b>Investment income</b>						
Interest receivable on cash deposits	-	370	370	-	67	67
Other interest receivable	-	22	22	-	64	64
<b>Total investment income</b>	<b>-</b>	<b>392</b>	<b>392</b>	<b>-</b>	<b>131</b>	<b>131</b>
<b>Total incoming resources</b>	<b>18,932</b>	<b>2,133</b>	<b>21,065</b>	<b>16,665</b>	<b>2,089</b>	<b>18,754</b>

QIB's activities consist principally of scientific research in the United Kingdom.

- Grant income of £13,112k (2022: £15,921k) is all restricted general funds.
- Capital grants of £5,820k (2022: £744k) of which £566k (2022: £183k) is restricted general funds and £5,254k (2022: £561k) is restricted capital funds.
- Other charitable income of £950k (2022: £682k) of which £642k (2022: £549k) is unrestricted funds and £308k (2022: £133k) is restricted general funds.
- In both periods all trading and investment income is unrestricted.

### 3. ANALYSIS OF EXPENDITURE

	Research activities £000	Student activities £000	Other activities £000	Total 2023 £000	Research activities £000	Student activities £000	Other activities £000	Total 2022 £000
Note								
Direct charitable expenditure								
Staff costs	7,395	-	-	7,395	7,304	-	-	7,304
Direct costs	3,371	472	-	3,843	2,875	441	-	3,316
Depreciation	1,260	-	-	1,260	1,151	-	-	1,151
Buildings maintenance	336	-	-	336	351	-	-	351
Governance costs	-	-	51	51	-	-	50	50
Support costs	4 5,925	255	-	6,180	4,864	233	-	5,097
<b>Expenditure on charitable activities</b>	<b>18,287</b>	<b>727</b>	<b>51</b>	<b>19,065</b>	<b>16,545</b>	<b>674</b>	<b>50</b>	<b>17,269</b>
Raising funds	-	-	184	184	-	-	166	166
Trading expenditure	-	-	487	487	-	-	729	729
<b>Total expenditure</b>	<b>18,287</b>	<b>727</b>	<b>722</b>	<b>19,736</b>	<b>16,545</b>	<b>674</b>	<b>945</b>	<b>18,164</b>

Included within expenditure on charitable activities is restricted general expenditure of £14,578k (2022: £13,731), and restricted capital expenditure (depreciation) of £1,260k (2022: £1,151k). All other expenditure is unrestricted.

Staff costs are allocated based on time spent by staff. Depreciation is allocated based on the usage of assets. Other costs are allocated on the basis of their nature.

## NOTES TO THE ACCOUNTS

### 3. ANALYSIS OF EXPENDITURE (CONTINUED)

	Total 2023 £000	Total 2022 £000
<b>Analysis of governance costs</b>		
Staff costs	26	26
Other costs	25	24
<b>Total governance costs</b>	<b>51</b>	<b>50</b>

### 4. ALLOCATION OF SUPPORT COSTS

	Research activities £000	Student activities £000	Total 2023 £000	Research activities £000	Student activities £000	Total 2022 £000
Lab management	194	9	203	151	8	159
Institute management	760	34	794	638	32	670
Scientific services	965	43	1,008	247	12	259
Facilities management and utilities*	2,028	90	2,118	1,996	100	2,096
Finance and Purchasing*	533	24	557	388	19	407
Computing and Library*	486	22	508	460	23	483
Human Resources*	173	8	181	168	8	176
Public engagement	333	14	347	355	18	373
Health and Safety*	103	5	108	115	6	121
Other support services*	350	6	356	346	7	353
<b>Total support costs</b>	<b>5,925</b>	<b>255</b>	<b>6,180</b>	<b>4,864</b>	<b>233</b>	<b>5,097</b>

\*Includes services supplied by NBI Partnership Limited (see note 20).

### 5. TAXATION

QIB is considered to pass the tests set out in Paragraph 1 Schedule 6 Finance Act 2010 and therefore it meets the definition of a charitable company for UK Corporation tax purposes. Accordingly, the Charity is potentially exempt from taxation in respect of income or capital gains received within categories covered by Chapter 3 Part 11 Corporation Tax Act 2010 or Section 256 of the Taxation of Chargeable Gains Act 1992, to the extent that such income or gains are applied exclusively to charitable purposes.

The trading activities of the subsidiary companies are subject to corporation tax; however profits in the year are gifted to the charitable company resulting in a £nil (2022: £nil) tax charge payable.

There is no provision for deferred tax on fair value adjustments because any chargeable gains are applied to charitable objectives so no tax liability arises.

### 6. OPERATING SURPLUS/(DEFICIT)

Operating surplus/(deficit) is stated after charging/(crediting):

	Total 2023 £000	Total 2022 £000
Audit services:		
Fees payable for the audit of the charitable company and consolidated financial statements	20	19
Fees payable for the audit of the charitable company's subsidiaries pursuant to legislation	2	2
Depreciation	1,260	1,151
Hire of plant and equipment	19	22
Loss on disposal of tangible assets	7	67
(Gain)/Loss on foreign exchange translations	(4)	8



## NOTES TO THE ACCOUNTS

### 7. REMUNERATION OF THE BOARD OF TRUSTEES

QIB has been given approval by the Charities Commission to remunerate Trustees where the Board considers that payment is necessary to attract Trustees with specialist skills and experience. The power to remunerate Trustees is included in the QIB's Articles of Association.

One member of the Board of Trustees, Dr Celica Caulcott, received remuneration from the group during the year for duties as a trustee (2022: one). Total trustee remuneration in the year was £10,000 (2022: £11,177).

Four members of the Board of Trustees were reimbursed for expenses incurred during the year (2022: three). The total amount reimbursed was £847 (2022: £576).

### 8. EMPLOYEE INFORMATION

The average monthly number of persons employed by or deployed to the group during the year, analysed by category, was as follows:

	<b>Group 2023</b>	Group 2022	<b>Company 2023</b>	Company 2022
	<b>Number</b>	Number	<b>Number</b>	Number
Scientific	<b>161</b>	163	<b>154</b>	156
Office management and services	<b>16</b>	19	<b>14</b>	17
<b>Total</b>	<b>177</b>	182	<b>168</b>	173

The aggregate payroll costs of these persons were:

	<b>Group 2023</b>	Group 2022	<b>Company 2023</b>	Company 2022
	<b>£000</b>	£000	<b>£000</b>	£000
Wages and salaries	<b>7,004</b>	6,761	<b>6,701</b>	6,450
Redundancy payments	<b>9</b>	3	<b>9</b>	3
Social security costs	<b>767</b>	683	<b>735</b>	663
Other pension costs	<b>940</b>	948	<b>916</b>	917
<b>Total</b>	<b>8,720</b>	8,395	<b>8,361</b>	8,033

As required by the Statement of Recommended Practice applicable to charities, an analysis has been provided below of the number of staff who fall within staff cost bands (excluding pension cost) from £60,000 upwards:

	<b>Group 2023</b>	Group 2022	<b>Company 2023</b>	Company 2022
	<b>Number</b>	Number	<b>Number</b>	Number
£60,000 - £69,999	<b>12</b>	7	<b>11</b>	7
£70,000 - £79,999	<b>6</b>	4	<b>6</b>	4
£80,000 - £89,999	<b>5</b>	4	<b>5</b>	4
£90,000 - £99,999	<b>1</b>	2	<b>1</b>	2
£100,000 - £109,999	<b>2</b>	1	<b>2</b>	1
£110,000 - £119,999	<b>-</b>	1	<b>-</b>	1
£120,000 - £129,999	<b>-</b>	1	<b>-</b>	1
£130,000 - £139,999	<b>1</b>	2	<b>1</b>	2
£140,000 - £149,999	<b>2</b>	-	<b>2</b>	-
<b>Total</b>	<b>29</b>	22	<b>28</b>	22

The number of staff with emoluments greater than £60,000 who are also members of the Research Councils' Pension Schemes was seven (2022: six). Thirteen staff with emoluments greater than £60,000 are members of a Defined Contribution Pension Scheme (2022: seven).

All staff employed by QIB on 30 September 2011 became BBSRC employees on 1 March 2012 and were deployed back to the Institute under conditions set out in the Deployment Agreement (the "Deployed Employees"). On 1 October 2017, Deployed Employees transferred employment to the Institute under TUPE. Transferring employees retain their membership of the Research Councils Pension Scheme, where applicable, with QIB becoming an admitted employer in the scheme. QIB staff that joined after 30 September 2011 are employed under QIB terms & conditions.

The key management personnel of the parent charity, Quadram Institute Bioscience, comprise of the trustees and the members of the Executive Board. The total employee benefits of the key management personnel of the charity were £776,385 (2022: £776,414). The key management personnel of the group comprise those of the charity and the key management personnel of the wholly owned subsidiary, QIB Extra Ltd. The key management personnel of QIB Extra Ltd are the Director of Operations and the Head of QIB Extra Operations. The costs of the key management personnel to QIB Extra was £67,268 (2022: £54,223).

The employee benefits of the key management personnel for the group was £843,653 (2022: £830,637).

## NOTES TO THE ACCOUNTS

### 9. TANGIBLE ASSETS

Group	Leasehold land and buildings £000	Plant, machinery and equipment £000	Apparatus and equipment £000	Assets under construction £000	Total £000
<b>Cost/Valuation</b>					
At 1 April 2022	14,670	278	13,751	302	29,001
Transfer	-	-	95	(95)	-
Additions	-	-	1,932	2,580	4,512
Disposals	-	-	(187)	-	(187)
<b>At 31 March 2023</b>	<b>14,670</b>	<b>278</b>	<b>15,591</b>	<b>2,787</b>	<b>33,326</b>
<b>Accumulated Depreciation</b>					
At 1 April 2022	731	27	9,329	-	10,087
Charge for the year	246	28	986	-	1,260
Disposals	-	-	(95)	-	(95)
<b>At 31 March 2023</b>	<b>977</b>	<b>55</b>	<b>10,220</b>	<b>-</b>	<b>11,252</b>
<b>Net book value at 31 March 2023</b>	<b>13,693</b>	<b>223</b>	<b>5,371</b>	<b>2,787</b>	<b>22,074</b>
Net book value at 31 March 2022	13,939	251	4,422	302	18,914

Charitable company	Leasehold land and buildings £000	Plant, machinery and equipment £000	Apparatus and equipment £000	Assets under construction £000	Total £000
<b>Cost/Valuation</b>					
At 1 April 2022	14,670	278	13,654	302	28,904
Transfer	-	-	95	(95)	-
Additions	-	-	1,932	2,580	4,512
Disposals	-	-	(187)	-	(187)
<b>At 31 March 2023</b>	<b>14,670</b>	<b>278</b>	<b>15,494</b>	<b>2,787</b>	<b>33,229</b>
<b>Accumulated Depreciation</b>					
At 1 April 2022	731	27	9,232	-	9,990
Charge for the year	246	28	986	-	1,260
Disposals	-	-	(95)	-	(95)
<b>At 31 March 2023</b>	<b>977</b>	<b>55</b>	<b>10,123</b>	<b>-</b>	<b>11,155</b>
<b>Net book value at 31 March 2023</b>	<b>13,693</b>	<b>223</b>	<b>5,371</b>	<b>2,787</b>	<b>22,074</b>
Net book value at 31 March 2022	13,939	251	4,422	302	18,914

All of the tangible assets of the charitable company are used for charitable purposes.

Assets under construction represent capital items which are not yet in full economic use.

### 10. INTANGIBLE ASSETS

Group and charitable company	Software development £000	Total £000
<b>Cost/Valuation</b>		
At 1 April 2022	147	147
Additions	-	-
Disposals	-	-
<b>At 31 March 2023</b>	<b>147</b>	<b>147</b>
<b>Accumulated Depreciation</b>		
At 1 April 2022	147	147
Charge for the year	-	-
Disposals	-	-
<b>At 31 March 2023</b>	<b>147</b>	<b>147</b>
<b>Net book value at 31 March 2023</b>	<b>-</b>	<b>-</b>
Net book value at 31 March 2022	-	-

The intangible asset relates to internally generated research software.



## NOTES TO THE ACCOUNTS

### 11. INVESTMENT IN SUBSIDIARIES AND ASSOCIATES

#### Subsidiaries

The following are the operating subsidiary undertakings in which the charitable company has an interest:

Subsidiary Undertaking	Registration number	Country of registration	Principal activity	Class and percentage of shares held
QIB Extra Limited	06500711	England	Contract research	100% ordinary shares
IFR Enterprises Limited	03398534	England	Dormant	100% ordinary shares
IFR NRP Capital Limited	08132483	England	Dormant	100% ordinary shares

The charitable company owns 100% of the ordinary share capital of IFR Enterprises Limited (cost: £3), QIB Extra Limited (cost: £100) and IFR NRP Capital Limited (cost: £1), all of which are incorporated in England. The subsidiaries are used for trading activities.

The companies' results for the year were as follows:

	IFR Enterprises Limited	QIB Extra Limited	IFR NRP Capital Limited	Total 2023	Total 2022
	£000	£000	£000	£000	£000
<b>Profit and loss account</b>					
Turnover	-	800	-	800	1,276
Cost of sales	-	(396)	-	(396)	(537)
<b>Gross profit</b>	-	404	-	404	739
Administrative expenses	-	(286)	-	(286)	(195)
<b>Operating profit</b>	-	118	-	118	544
Interest receivable and similar income	-	6	-	6	-
<b>Profit retained in subsidiary</b>	-	124	-	124	544
<b>Net assets at 31 March</b>	-	125	-	125	541

In addition to the above, £540,332 (2022: £29,827) in Gift Aid was paid to the charitable company in the year.

The charitable company has committed to provide financial support to QIB Extra Limited ("QIBX"), and not demand repayment of amounts due to it, in order to enable QIBX to meet its liabilities as they fall due – but only to the extent that money is not otherwise available to the company to meet such liabilities – for a period of at least 12 months from the signing of the financial statements of QIBX for the year ended 31 March 2023.

IFR NRP Capital Limited is a member of Anglia Innovation Partnership LLP, which is responsible for the management and development of the Norwich Research Park (NRP) estate and for the furtherance of the NRP Enterprise Vision. IFR NRP Capital Limited did not trade during the year.

### 12. DEBTORS

	Group 2023	Group 2022	Company 2023	Company 2022
	£000	£000	£000	£000
Note				
<i>Grants receivable:</i>				
from government bodies	1,345	743	1,345	743
from other sources	2,834	1,657	2,834	1,657
Trade debtors	301	223	91	26
Amounts owed by subsidiary undertakings	-	-	57	72
Amounts owed by other related parties	469	1,452	469	1,452
Other debtors	213	98	213	97
Prepayments and accrued income	1,457	1,140	1,356	996
<b>Total amounts falling due within one year</b>	<b>6,619</b>	<b>5,313</b>	<b>6,365</b>	<b>5,043</b>

Included in the above amounts is £350k (2022: £1,250k) unsecured loan to QI Partners, of which £200k (2022: £350k) is repayable in over one year. Interest is payable on the loan at a rate of 3.0% per annum.

### 13. CASH AT BANK AND IN HAND

	Group 2023	Group 2022	Company 2023	Company 2022
	£000	£000	£000	£000
Cash at bank	22,924	22,452	22,810	22,031
Cash in hand	2	3	2	2
<b>Total</b>	<b>22,926</b>	<b>22,455</b>	<b>22,812</b>	<b>22,033</b>

## NOTES TO THE ACCOUNTS

### 14. CREDITORS: AMOUNTS FALLING DUE WITHIN ONE YEAR

		<b>Group 2023</b>	Group 2022	<b>Company 2023</b>	Company 2022
	Note	<b>£000</b>	£000	<b>£000</b>	£000
<i>Grants received in advance:</i>					
from government bodies		<b>956</b>	892	<b>956</b>	892
from other sources		<b>2,581</b>	2,590	<b>2,467</b>	2,572
Amounts owed to subsidiary undertakings		-	-	-	-
Amounts owed to other related parties	21	<b>975</b>	788	<b>975</b>	788
Trade creditors		<b>3,136</b>	849	<b>3,132</b>	842
Other creditors		<b>1,722</b>	1,470	<b>1,669</b>	1,430
Accruals and deferred income		<b>2,061</b>	1,265	<b>2,022</b>	1,186
Taxation and social security		<b>195</b>	164	<b>160</b>	155
<b>Total amounts falling due within one year</b>		<b>11,626</b>	8,018	<b>11,381</b>	7,865

### 15. RECONCILIATION OF MOVEMENT IN GRANTS RECEIVABLE

<b>Group</b>		<b>Total 2023</b>	Total 2022
	Note	<b>£000</b>	£000
Grants receivable	12	<b>4,179</b>	2,400
Grants received in advance	14	<b>(3,537)</b>	(3,482)
<b>Net grants received in advance</b>		<b>642</b>	(1,082)
Net grants received in advance at beginning of year		<b>(1,082)</b>	1,715
Grant monies received during the year		<b>(17,208)</b>	(19,462)
Grant money released to SOFA during the year		<b>18,932</b>	16,665
<b>Net grants received in advance at end of year</b>		<b>642</b>	(1,082)

### 16. ANALYSIS OF NET ASSETS BETWEEN FUNDS

	Fixed assets £000	Net current assets £000	<b>Total 2023 £000</b>
<b>Group</b>			
<i>Unrestricted:</i>			
Fixed assets reserve	13,317	-	<b>13,317</b>
Designated strategic reserve	-	9,831	<b>9,831</b>
Designated building reserve	-	1,250	<b>1,250</b>
General	-	4,375	<b>4,375</b>
<i>Restricted:</i>			
Fixed assets reserve	8,757	-	<b>8,757</b>
Capital reserve	-	2,463	<b>2,463</b>
General	-	-	-
<b>Net assets</b>	<b>22,074</b>	<b>17,919</b>	<b>39,993</b>
<b>Charitable company</b>			
<i>Unrestricted:</i>			
Fixed assets reserve	13,317	-	<b>13,317</b>
Designated strategic reserves	-	9,831	<b>9,831</b>
Designated building reserves	-	1,250	<b>1,250</b>
General	-	4,252	<b>4,252</b>
<i>Restricted:</i>			
Fixed assets reserve	8,757	-	<b>8,757</b>
Capital reserve	-	2,463	<b>2,463</b>
General	-	-	-
<b>Net assets</b>	<b>22,074</b>	<b>17,796</b>	<b>39,870</b>

## NOTES TO THE ACCOUNTS

### 16. ANALYSIS OF NET ASSETS BETWEEN FUNDS (CONTINUED)

	Fixed assets £000	Net current assets £000	Total 2022 £000
<b>Group</b>			
<i>Unrestricted:</i>			
Fixed assets reserve	14,069	-	<b>14,069</b>
Designated strategic reserve	-	10,423	<b>10,423</b>
Designated building reserve	-	1,250	<b>1,250</b>
General	-	4,011	<b>4,011</b>
<i>Restricted:</i>			
Fixed assets reserve	4,845	-	<b>4,845</b>
Capital reserve	-	1,837	<b>1,837</b>
General	-	2,229	<b>2,229</b>
<b>Net assets</b>	<b>18,914</b>	<b>19,750</b>	<b>38,664</b>
<b>Charitable company</b>			
<i>Unrestricted:</i>			
Fixed assets reserve	14,069	-	<b>14,069</b>
Designated strategic reserves	-	10,423	<b>10,423</b>
Designated building reserves	-	1,250	<b>1,250</b>
General	-	3,472	<b>3,472</b>
<i>Restricted:</i>			
Fixed assets reserve	4,845	-	<b>4,845</b>
Capital reserve	-	1,837	<b>1,837</b>
General	-	2,229	<b>2,229</b>
<b>Net assets</b>	<b>18,914</b>	<b>19,211</b>	<b>38,125</b>

The Unrestricted fixed assets reserve relates to the net book value of fixed assets purchased from unrestricted funds. The restricted fixed assets reserve relates to the net book value of fixed assets purchased from capital grants.

The unrestricted designated strategic reserve relates to funds designated by the Board for use in relation to planned science investment associated with the Quadram Institute. The designated building reserve represents the loan advances to QI Partners £0.35m (2022: £1.25m) and energy cost increases.

The restricted capital reserve is not an endowment fund, but represents capital funding received, from BBSRC, that may only be utilised on fulfilment of certain grant conditions.

The unrestricted general reserve is held to manage income fluctuations, cover unexpected liabilities including restructuring costs.

### 17. ANALYSIS OF FUNDS MOVEMENTS

	Unrestricted fixed assets £000	Unrestricted designated strategic £000	Unrestricted designated building £000	Unrestricted general £000	Restricted fixed assets £000	Restricted general £000	Restricted capital £000	Total 2023 £000
<b>Group</b>								
<b>At 1 April 2022</b>	14,069	10,423	1,250	4,011	4,845	2,229	1,837	<b>38,664</b>
Surplus for the year	-	-	-	(2,073)	3,994	(592)	-	<b>1,329</b>
Designated reserve transfers	-	(1,592)	-	3,229	-	(1,637)	-	-
Depreciation transfer	(804)	-	-	-	804	-	-	-
Capital transfers	52	-	-	208	(886)	-	626	-
Other transfers	-	1,000	-	(1,000)	-	-	-	-
<b>At 31 March 2023</b>	<b>13,317</b>	<b>9,831</b>	<b>1,250</b>	<b>4,375</b>	<b>8,757</b>	<b>-</b>	<b>2,463</b>	<b>39,993</b>
<b>Charitable company</b>								
<b>At 1 April 2022</b>	14,069	10,423	1,250	3,472	4,845	2,229	1,837	<b>38,125</b>
Surplus for the year	-	-	-	(1,657)	3,994	(592)	-	<b>1,745</b>
Designated reserve transfers	-	(1,592)	-	3,229	-	(1,637)	-	-
Depreciation transfer	(804)	-	-	-	804	-	-	-
Capital transfers	52	-	-	208	(886)	-	626	-
Other transfers	-	1,000	-	(1,000)	-	-	-	-
<b>At 31 March 2023</b>	<b>13,317</b>	<b>9,831</b>	<b>1,250</b>	<b>4,252</b>	<b>8,757</b>	<b>-</b>	<b>2,463</b>	<b>39,870</b>



## NOTES TO THE ACCOUNTS

### 17. ANALYSIS OF FUNDS MOVEMENTS (CONTINUED)

	Unrestricted fixed assets	Unrestricted designated strategic	Unrestricted designated building	Unrestricted general	Restricted fixed assets	Restricted general	Restricted capital	Total 2022
	£000	£000	£000	£000	£000	£000	£000	£000
<b>Group</b>								
<b>At 1 April 2021</b>	14,972	6,486	3,050	4,013	4,106	2,914	2,533	<b>38,074</b>
Surplus for the year	-	-	-	(1,326)	(590)	2,506	-	<b>590</b>
Designated reserve transfers	-	3,937	(1,800)	1,054	-	(3,191)	-	-
Depreciation transfer	(903)	-	-	-	903	-	-	-
Capital transfers	-	-	-	270	426	-	(696)	-
<b>At 31 March 2022</b>	<b>14,069</b>	<b>10,423</b>	<b>1,250</b>	<b>4,011</b>	<b>4,845</b>	<b>2,229</b>	<b>1,837</b>	<b>38,664</b>
<b>Charitable company</b>								
<b>At 1 April 2021</b>	14,972	6,486	3,050	3,988	4,106	2,914	2,533	<b>38,049</b>
Surplus for the year	-	-	-	(1,840)	(590)	2,506	-	<b>76</b>
Designated reserve transfers	-	3,937	(1,800)	1,054	-	(3,191)	-	-
Depreciation transfer	(903)	-	-	-	903	-	-	-
Capital transfers	-	-	-	270	426	-	(696)	-
<b>At 31 March 2022</b>	<b>14,069</b>	<b>10,423</b>	<b>1,250</b>	<b>3,472</b>	<b>4,845</b>	<b>2,229</b>	<b>1,837</b>	<b>38,125</b>

The designated reserve transfers relates to costs incurred in the year that have been set against the designated strategic reserves, or changes to designations approved by the trustees.

The depreciation transfer is the reallocation of the depreciation charge for assets purchased from unrestricted reserves.

Capital transfers include a transfer from restricted to unrestricted reserves following the completion of performance conditions in connection with restricted capital grant activity, and the reallocation of funds to reflect the capital funding restrictions.

Other transfers include a transfer from restricted to unrestricted funds following the completion of performance conditions in connection with restricted non-capital grant activity, and the reallocation of funds to reflect funding restrictions.

### 18. COMMITMENTS

	Total 2023 £000	Total 2022 £000
<b>Group and charitable company</b>		
Capital commitments at the end of the financial year for which no provision has been made:		
Contracted	<b>1,087</b>	963
Amounts due under other operating leases for plant and machinery:		
Within one year	<b>2</b>	2
Between one and two years	<b>2</b>	2
Between two and five years	-	2
	<b>4</b>	6

## NOTES TO THE ACCOUNTS

### 19. PENSION SCHEMES

All staff employed by QIB on 30 September 2011 became BBSRC employees on 1 March 2012 and were deployed back to the Institute under conditions set out in the Deployment Agreement (the "Deployed Employees"). On 1 October 2017, Deployed Employees transferred employment to the Institute under TUPE.

Deployed Employees retain their membership of the Research Councils Pension Scheme (RCPS), where applicable, with QIB becoming an admitted employer in the scheme. The RCPS is a defined benefit scheme funded from annual grant-in-aid on a pay-as-you-go basis. The RCPS Pension Scheme is a multi-employer scheme and QIB is unable to identify its share of the underlying assets and liabilities. QIB therefore accounts for the scheme as if it were a wholly defined contribution scheme. As a result, the amount charged to the income and expenditure account represents the contributions payable to the scheme in respect of the accounting period. Liabilities for the payment of future benefits are the responsibility of the RCPS and accordingly are not included in these Financial Statements. The employer contribution rate during the year was 26% (2022: 26%).

QIB employees that joined after 30 September 2011 are eligible to join a defined contribution scheme.

The Company employs some staff jointly with the University of East Anglia. Staff are employed under QIB terms & conditions but are eligible to join The University Superannuation Scheme (USS). QIB is obliged to pay the prevailing employer contribution rate for staff in the USS, however it has no liability for scheme funding deficits. Accordingly, these arrangements have been accounted for as defined contribution scheme.

The total pension charge for the year was £940,861 (2022: £937,011), with outstanding contributions at the year-end of £50,232 (2022: £50,079).

### 20. RELATED PARTY TRANSACTIONS

#### Biotechnology and Biological Science Research Council (Member)

The charitable company is strategically funded by BBSRC along with seven other Institutes.

Grants received from BBSRC are detailed in note 2.

As at 31 March 2023, BBSRC owed £1,264,663 (2022: £358,202) to QIB, and QIB owed BBSRC £nil (2022: £nil).

BBSRC is part of UK Research and Innovation (UKRI), an organisation that brings together the UK's seven research councils, Innovate UK and Research England.

#### University of East Anglia (Member)

University of East Anglia ("UEA") is a member of the charitable company. UEA is entitled to appoint a majority of the members of the Board of Trustees and accordingly is deemed to be the company's parent undertaking and controlling party.

UEA invoiced QIB £1,477,319 (2022: £4,320,482) for salaries and other charges and QIB invoiced UEA £704,513 (2022: £162,221) for services.

As at 31 March 2023, the UEA owed QIB £5,661 (2022: £82,355) and QIB owed UEA £351,741 (2022: £241,093).

#### Norfolk and Norwich University Hospitals NHS Foundation Trust (Member)

Norfolk and Norwich University Hospitals NHS Foundation Trust (NNUH) is a member of the charitable company.

During the year NNUH invoiced QIB £969,378 for services and capital costs (2022: £407,681) and QIB invoiced £31,140 (2022: £28,802) for grant related costs. As at 31 March 2023, NNUH owed QIB £10,034 (2022: £3,028) and QIB owed NNUH £486,711 (2022: £160,796).

#### NBI Partnership Limited (Associate)

The charitable company is one of four members and guarantors of NBI Partnership Limited ("NBIP"), a company limited by guarantee. QIB has provided short-term loans to NBIP to enable NBIP to manage its cash requirements. At 31 March 2023, QIB had a loan balance with NBIP of £100,339 (2022: £105,000).

During the year, QIB received services totalling £1,453,450 (2022: £1,399,627), received interest from NBIP of £2,100 (2022: £2,100) and invoiced NBIP £nil (2022: £nil) for other services. As at 31 March 2023, QIB owed NBIP £136,191 (2022: £117,109) and NBIP owed QIB £nil (2022: £nil).

## NOTES TO THE ACCOUNTS

### 20. RELATED PARTY TRANSACTIONS (CONTINUED)

#### QI Partners (Associate)

The charitable company is one of four members and guarantors of QI Partners, a charitable company limited by guarantee.

QIB has agreed to provide QI Partners with a loan facility of £5,400,000, which is repayable between November 2018 and October 2024. As at 31 March 2023, £350,000 of the facility has been drawn down by QI Partners (2022: £1,250,000). Interest is payable on the loan at a rate of 3.0% pa.

During the year, QIB invoiced QI Partners £19,861 (2022: £61,705) for interest on its loan. As at 31 March 2023, QI Partners owed QIB £2,603 (2022: £11,178).

QI Partners has invoiced QIB for service charges totalling £2,275,084 (2022: £1,809,666) in relation to the building running costs. As at 31 March 2023, QIB owed QI Partners £nil (2022: £268,547).

QIB does not have any significant influence on QI Partners' financial and operating policies.

#### Anglia Innovation Partnership LLP

QIB is a member of Anglia Innovation Partnership LLP ("AIP LLP") through its 100% subsidiary, IFR NRP Capital Limited. AIP LLP is responsible for the management and development of the Norwich Research Park (NRP) estate and for the furtherance of the NRP Enterprise Vision. During the year, QIB was charged £19,464 (2022: £24,854) for estate costs and services and QIB charged AIP £nil for utility costs (2022: £nil). As at 31 March 2023, QIB owed AIP LLP £nil (2022: £nil).

#### QIB Extra Ltd

QIB Extra Ltd is the wholly owned trading subsidiary of QIB. QIB Extra undertakes contract research for the food industry.

During the year, QIB invoiced QIBX for services and other costs totalling £180,103 (2022: £258,148). QIBX invoiced QIB for services totalling £8,800 (2022: £817). In addition, QIBX made a gift aid payment to QIB of £540,332 (2022: £29,827). As at 31 March 2023, QIBX owed QIB £57,028 (2022: £71,955).

### 21. CASH HELD AS EUROPEAN GRANT CO-ORDINATOR

The charitable company holds cash on behalf of the European Union in its capacity as project co-ordinator on a number of projects. It acts as an intermediary only and does not control the risks and rewards associated with the cash balances. Cash balances of £1,470,390 (2022: £1,088,439) in relation to this are included within the balance sheet.

### 22. ULTIMATE PARENT UNDERTAKING AND CONTROLLING PARTY

The trustees consider that the ultimate parent undertaking and controlling party is the University of East Anglia, by virtue of its right under the Articles of Association to appoint a majority of the company's directors.

QIB is the parent undertaking of the smallest group of undertakings to consolidate these financial statements, and the University of East Anglia is the parent undertaking of the largest group of undertakings to consolidate these financial statements.



## REFERENCE AND ADMINISTRATIVE DETAILS

### Directors and Trustees

Dr C Caulcott (Chair – Board)  
Dr E Blair  
Prof P Morgan (Chair – Remuneration and Nomination Committee)  
Mr G Potter  
Dr E Robertson  
Mrs J Waterfield (Chair – Audit and Risk Committee)  
Dr M Koufali  
Ms G Fine  
Prof B Reid

### Director of the Institute

Professor I Charles

### Company Secretary

Mrs S Bennion

### Key Management Personnel

Prof I Charles  
Dr G Brown  
Prof S Carding  
Mrs S Bennion  
Ms A O'Halleron  
Dr A Mather  
Prof M Warren  
Dr R Wilson

### Registered charity number

1058499

### Registered company number

03009972

### Registered and principal office

Norwich Research Park  
Norwich  
NR4 7UQ

### Independent auditors

Larking Gowen LLP  
Chartered Accountants and Statutory Auditors  
Prospect House  
Rouen Road  
Norwich  
NR1 1RE

### Bankers

Barclays Bank Plc  
54 Lombard Street  
London  
EC3V 9EX