



Research applications

> 60 projects with request of >16,000 samples

001 : Proteomic signatures in donor blood as diagnostic tools of donor kidney quality and predictors of long term outcomes

003 : Injury pathways and mitochondrial bioenergetics in kidneys and livers after brain (DBD) and circulatory death (DCD)

005 : Assessment of the feasibility and potential impact of a kidney and liver donor histopathology service in the UK

007 : Proteomic and micro-RNA analysis of laser capture microdissected proximal tubules obtained from DBD kidney biopsies

013 : Beta ischaemia & cell death and function in pancreas and islet cell donors

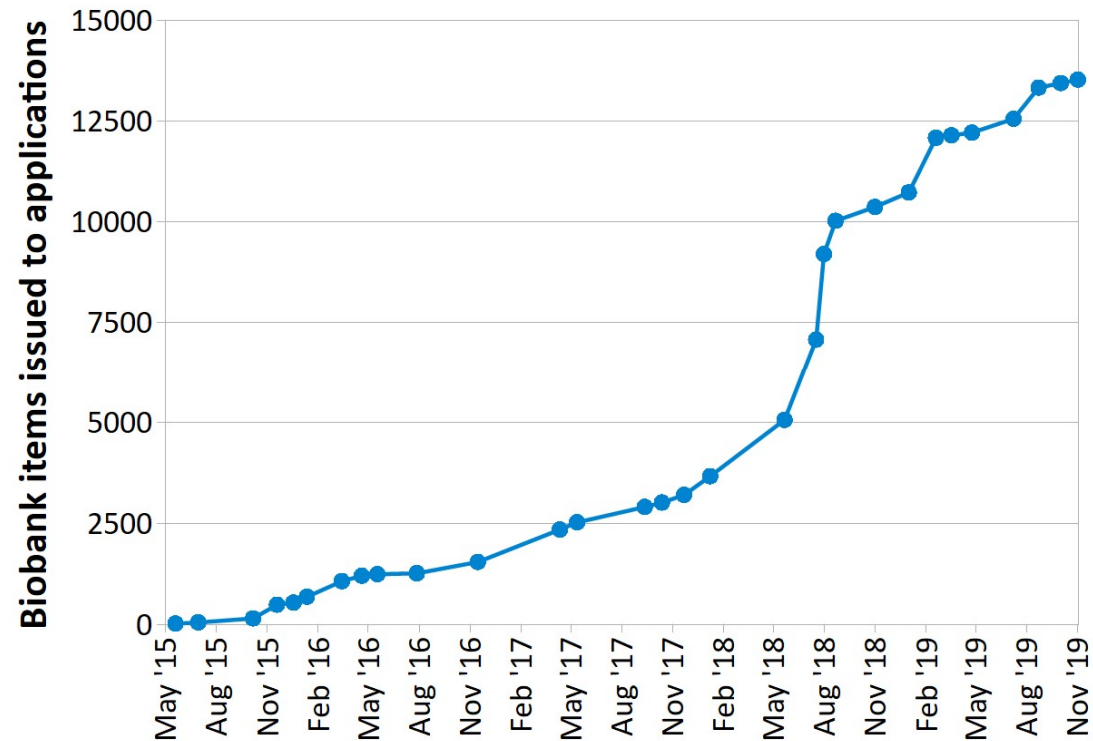
014 : Normothermic Regional Perfusion: A pilot study to investigate the underlying mechanism

017 : Investigation of markers of injury and mitochondrial bioenergetics in kidneys from donors with acute kidney injury (AKI)

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Research support and impact



- Biobank items issued to applications: 13,530
- Total number of research project applications: 63
- New applications at preliminary stage: 16
- Applications approved by the Steering Committee: 44
- Applications 16 completed by QUOD and 28 in progress

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Research capacity building & impact

- 28 known publications and presentations (excluding theses)
- 2/8 presentations in the Medawar Award session of the BTS
- Samples provided for 8 DPhil/PhD projects
- Samples provided for 9 Fellows (clinical, academic clinical, and clinical research)

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Research impact: results

Highlighted findings from publications and presentations:

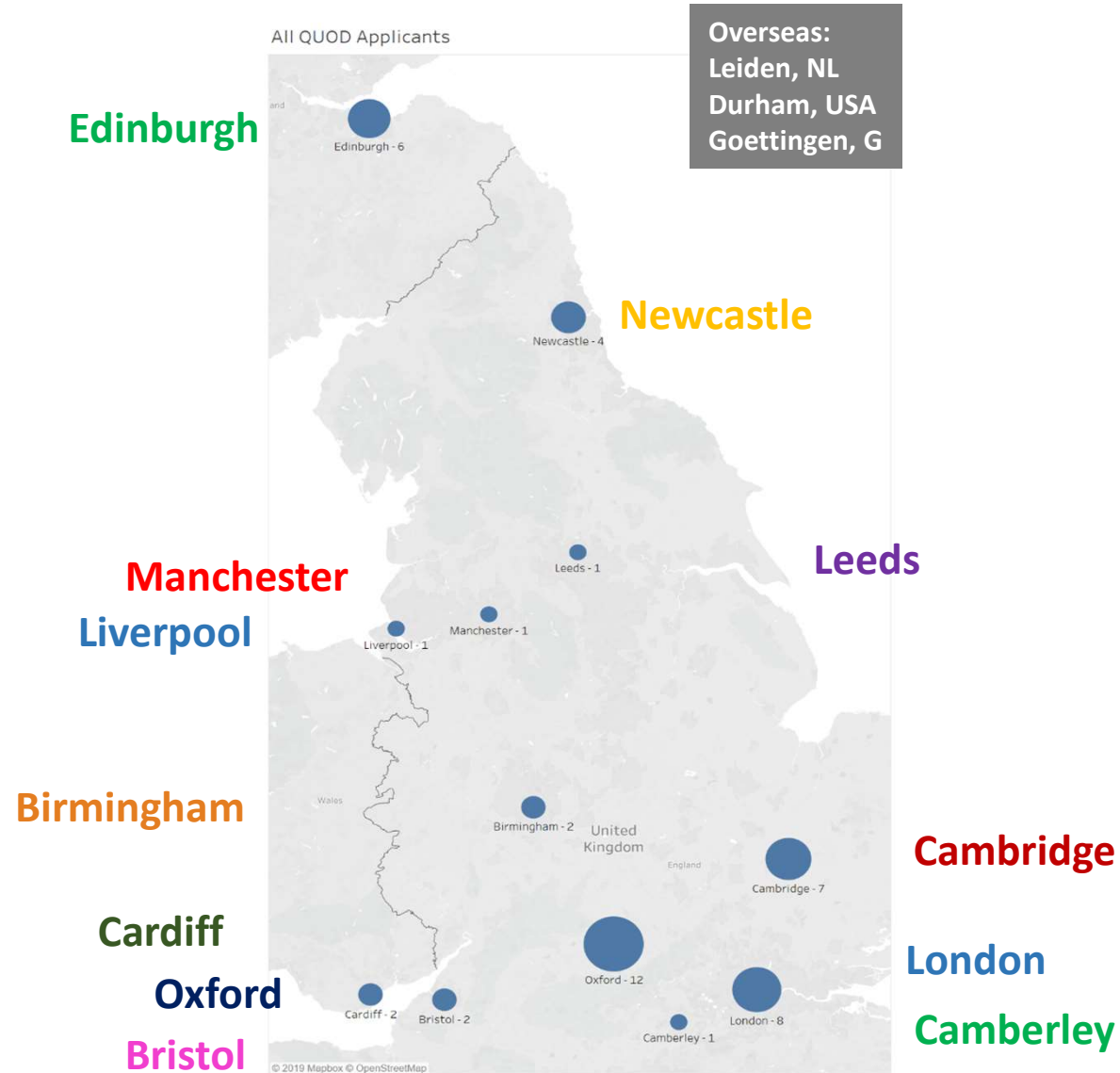
- Proteomic profiles of deceased donor kidney biopsies obtained prior to transplantation correlate with allograft function at one year
- Identification of clinically relevant exosome proteins associated with transplant outcome from donor plasma
- 240 candidate genes that are significantly associated with DGF and a smaller number with long term GFR
- Donor/recipient serotype mismatch may be a useful tool for stratifying the risk of BK virus disease.
- Validated pathology scoring system for EM microscopy of pancreas tissue and endocrine cells.

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Research support: geographic reach



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Research support: collaboration highlights

- Support of **NRP** and **PITHIA** as a service development in ODT
- Consulting with **BTS** for set-up of UK recipient biobanks system
- Collaboration with **UK Renal Imaging Network** to develop of whole organ imaging assessing donor kidneys and complement the 'organ atlas'
- Support **Human Cell Atlas** project by providing whole organs and hyper-sampled tissues (heart)
- Support a bid for the **IMI2 Digital Pathology repository** using slides from QUOD samples

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Research impact: funding

Local to Applicants

Oxford Translational Transplant Research Nucleus	University of Manchester	Oxford Transplant Foundation	Duke Medical Center	Royal Free Charity PhD Fellowship
University of Oxford	Royal College of Surgeons (Edinburgh)	Leeds Ray of Hope Fund	Transplant Dept Papworth	Transplantatie Centrum Leiden
King's College London	Cardiff Transplant Unit - Nephrology and Transplant Research Fund	Kings Liver Research Fund	Renal Allograft Fund (QEH Charity)	Wales Kidney Research Unit
	OUCAGS	Wellington Hospital Fellowship	Oxford NIHR BRC	

External Bodies

NIHR BTRU - Biomarkers & Genomics	MRC-CiC	Diabetes UK	MRC PhD
NIHR BTRU - Organ Donation & Transplantation	Kidneys for Life	European Innovation and Technology Fellowship	Horizon 2020
NIHR ACF	Central Manchester Foundation Trust	British Heart Foundation	Kidney Research UK
Kidney Wales	Wellcome Trust	Institute of Physics and Engineering in Medicine	Kidney Patient Association

Funds from 34 different non-commercial bodies have been used in support of QUOD projects so far

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