

Careers in the Core



Peter O'Toole

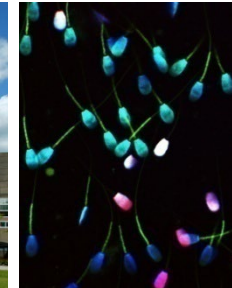
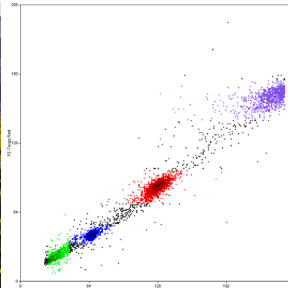
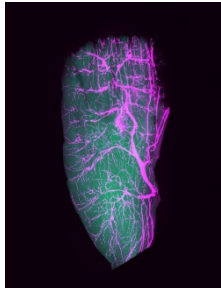
pot1@york.ac.uk



@YorkBioimaging

I&C Team

*Karen Hogg (Flow, LSCM), Karen Hodgkinson (EM, Flow, LSCM), Graeme Park (LSCM, Light Sheet), Paul Gunning (EM)
Jo Marrison (MP-LSCM, Light Sheet), Grant Calder (LM/Nanostring) Clare Steele-King (EM, LM), Sukhveer Mann (Flow)
Alasdair Kaye (PhenoSpot), Alex Roof (FRET/FCS) Ian Morrison (eSRM/FEM), Laura Wiggins (AI),
Daniel Ghetta (QPI - Holography), Jessica Rickman and Meetal Solanki (QPI - Ptychography)*



Evolution/Revolution of Facilities



Peter O'Toole

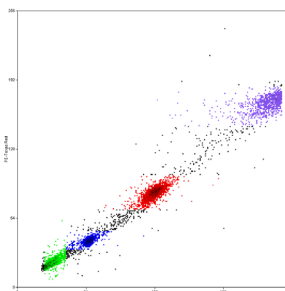
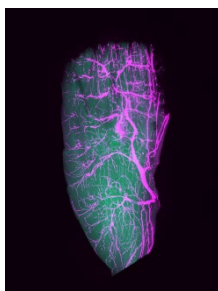
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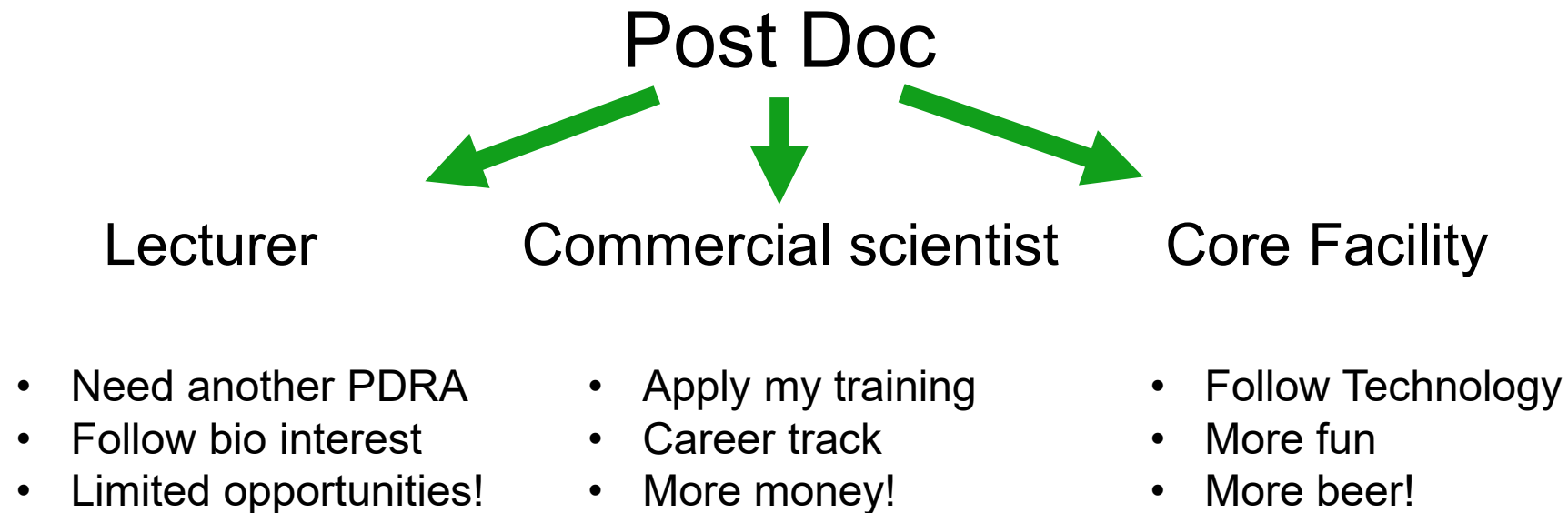
TF Team

*Jared Cartwright (Protein Production), Alastair Droop (Data Science), Sally James (Genomics), Paul Gunning (Nanocentre)
Andrew Leech (Molecular Interactions and Biophysics), Tony Larson (Metabolomics and Proteomics)*





The Opportunities







The Opportunities

Post Doc



Core Facility

- Follow Technology
- More fun
- More beer!



The Opportunities

Post Doc



Core Facility

A Career?

The Reality



Long hours, not so sunny, not so much holiday!

(but still further away from the in-laws)

What running a core does to you!

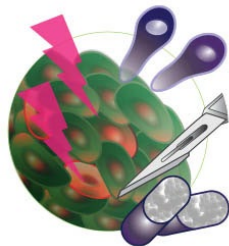


Introducing the

Department of Biology

and

Bioscience Technology Facility



Cancer
Research



Infection and
Immunity



Microbiology



Plant Biology



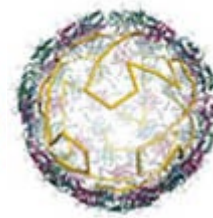
Cell and
developmental
biology



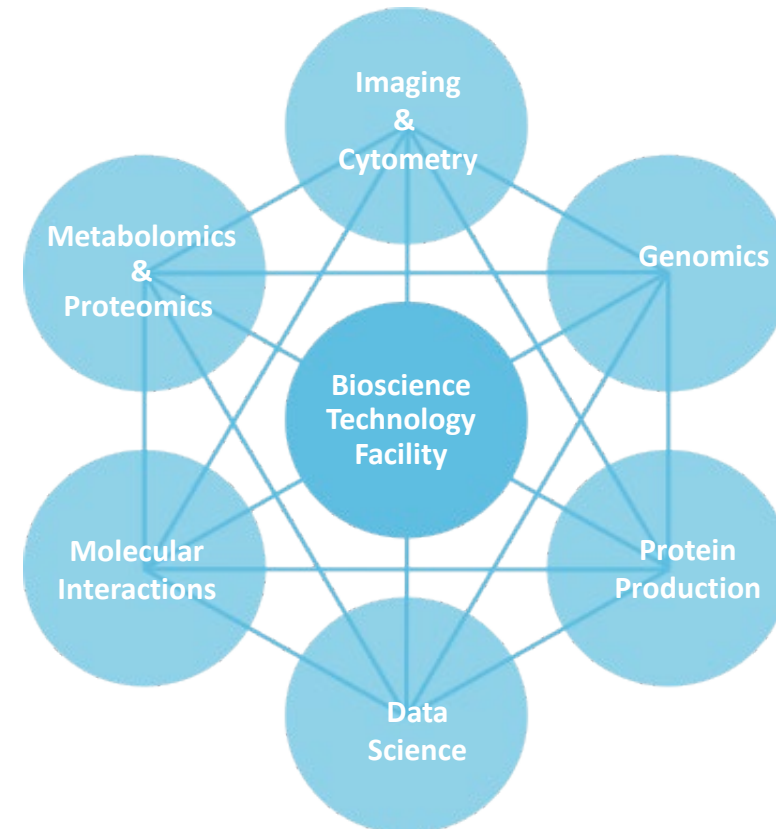
Biochemistry
and biophysics



Molecular
and cellular
medicine



Bioinformatics
and mathematical
biology



Technology Facility



In the beginning...



Technology Facility



In the beginning...

My Boss, My Mentor



Technology Facility



...and now



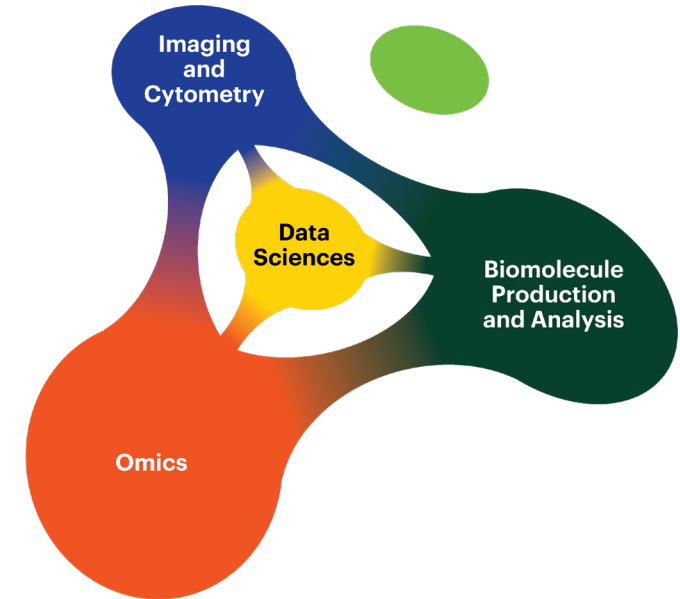
Staff

The Life Blood of any Facility

Who and Why



- Passion for Technology
- Scientifically multi-lingual
- Pragmatic
- Sense of helping and reward
- Enjoy teaching
- Tolerant
- Communicative – have to like people and vice versa!
- Seeking diversity in everyday work
- Stability and a Career
- Influence and Networking



Opportunities – Roles within a Core 2002



Core Role

- Lab Technician
- Research Technician
- Experimental Officer
- Lab Head

- Senior Management

Classic Academic Equivalent

- Lab Technician
- Research Technician
- Postdoctoral
- Lecturer
- Senior Lecturer/Reader
- Professor

Opportunities – Roles within a Core 2024



Core Role

- Lab Technician
- Research Technician
- Experimental Officer
- Senior EO/Lab Head
- Experienced Lab Head
- Professor of Practice
- Senior Management

Classic Academic Equivalent

- Lab Technician
- Research Technician
- Postdoctoral
- Lecturer
- Senior Lecturer/Reader
- Professor

Opportunities – Roles within a Core



Bioscience Technology Facility Director

Admin Support

1 x Executive Assistant
1 x Secretary/PA

Data Science	Omics		PP&MIB		I&C
Data Science	Genomics	Metabolomics & Proteomics	Protein Production	Molecular Interactions	Imaging & Cytometry
1 x Lab Head (G8) 1 x Senior EO (G7) 3 x EO (G6)	1 x Lab Head (G8) 2 x EO (G6)	1 x Lab Head (G8) 1 x Senior RA (G7) 2 x EO (G6) 1 x RT (G5)	1 x Lab Head (G8) 2x RT (G5) 1 x EO (G6)	1 x Lab Head (G8)	1 x Lab Head 1 x Senior EO (G7) 6 x EO (G6) 2 x RT (G5)



Year	Covalent Bound	Transient Interactions
2002	Meg Stark (EO)	
2003	Karen Hogg (EO)	
2004	Karen Hodgkinson (RT)	
2005	Graeme Park (RT), Jo Marrison (EO)	Rosy Manser (Cover)
2006		Roger Leigh (PhD)
2007		Ian Morrison (PDRA)
2008		
2009		Andy King (MSc)
2010		Lotta Rätty (MSc)
2011	Christa Walther (RT)	Clare Dennison (PhD)
2012		Rakesh Suman (PDRA), Tristan Henser-Brownhill
2013	Anna Simon (RT)	Connla Edwards (Cover)
2014		Richard Kasprowicz (PDRA), Helen Miller (PhD)
2015		Tom Youdale (MSc)
2016		Greg Parry (MSc)
2017		
2018		Adam Dickinson (PDRA), Laura Wiggins (PhD)
2019	Grant Calder (EO)	Dan Ghetta (Intern)
2020	Clare Steele King (EO)	Alex Scott (Intern)
2021		Ed (Intern), Savvas (Intern)
2022	Alastair Kaye (PostDoc)	Jodie Malcolm (Intern), Blythe Wright (Intern)
2023	Sukhveer Mann (EO), Paul Gunning (EM)	Juma Ward (Intern)



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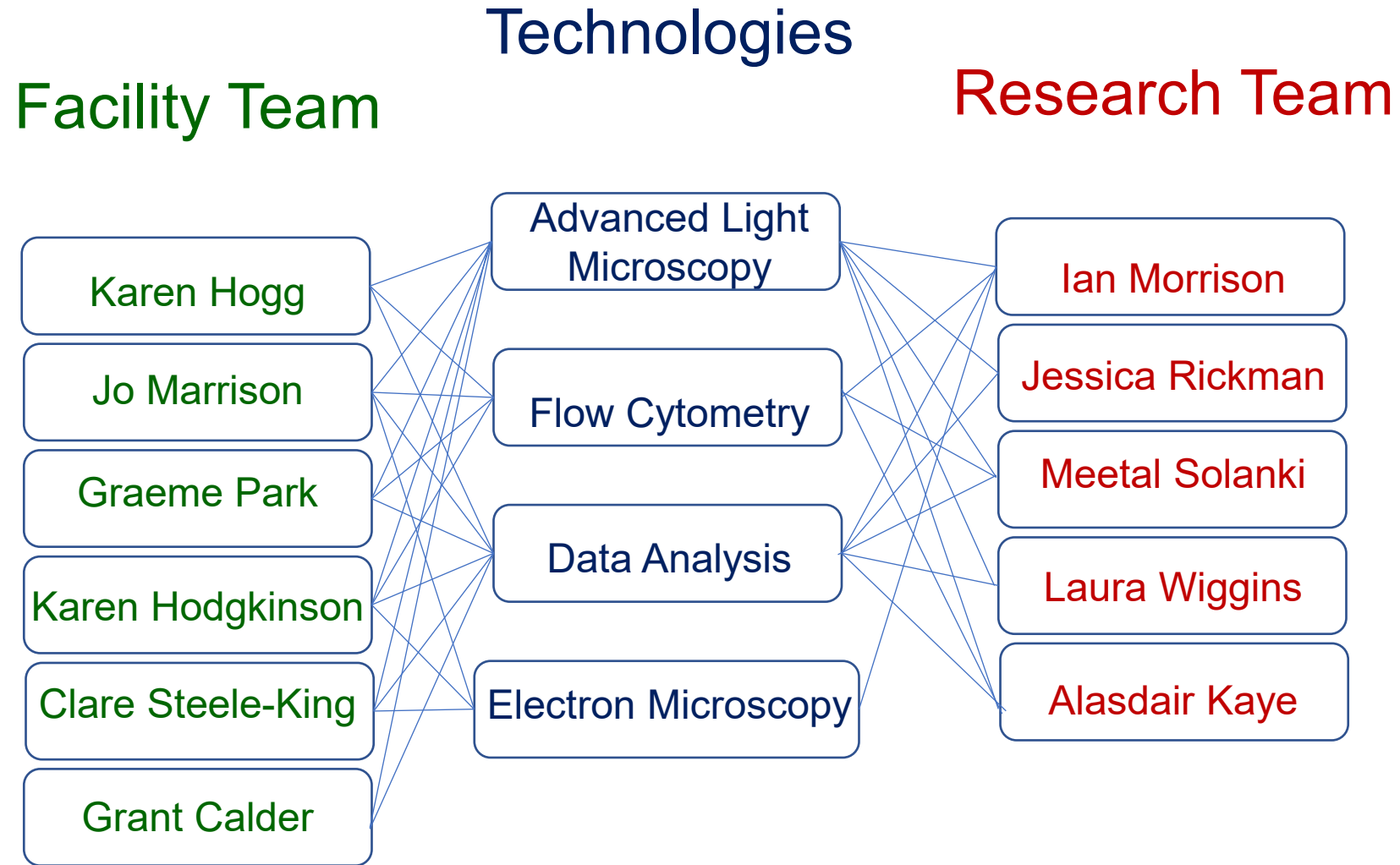
8 went into core Labs

8 went into commercial companies



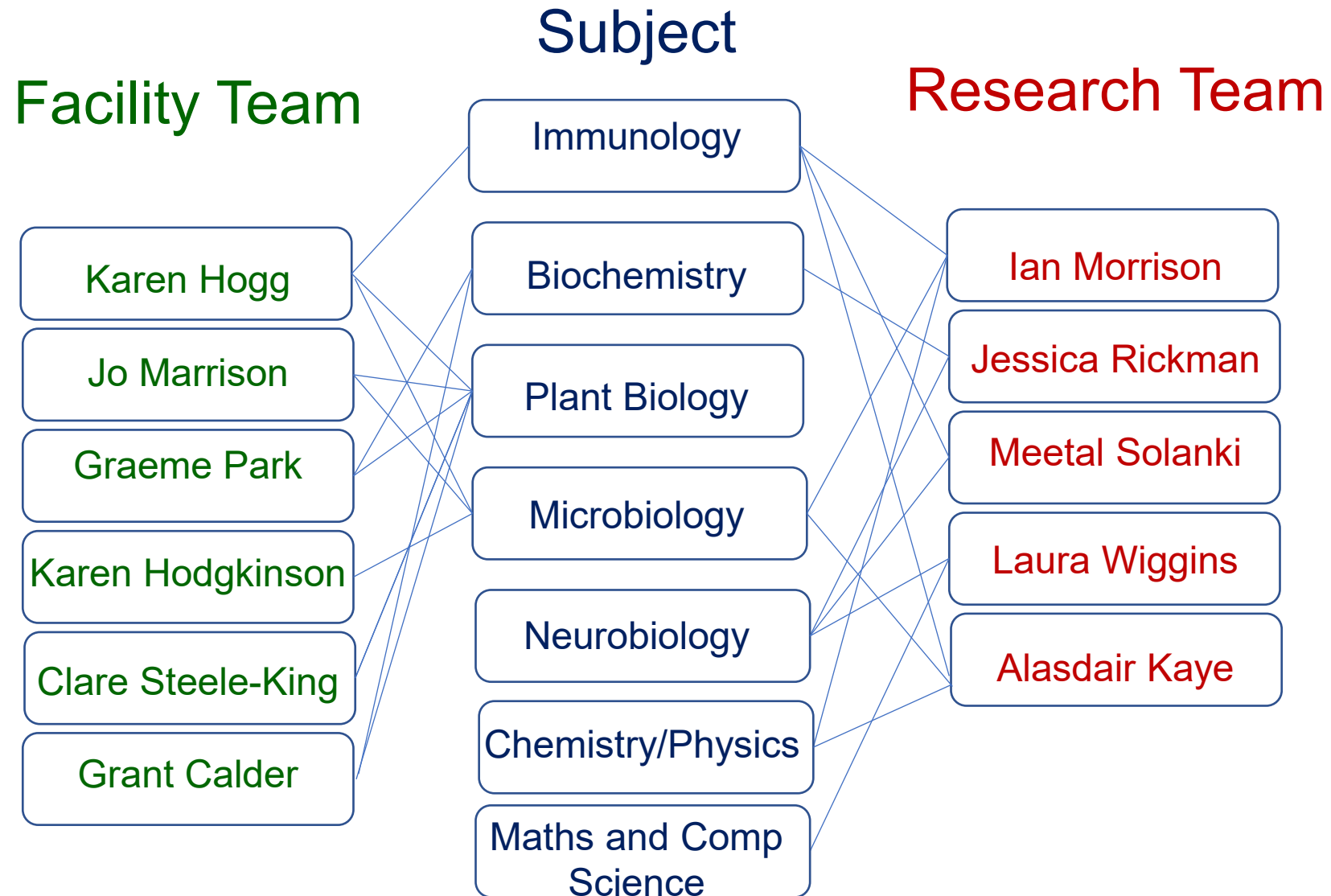
Resilient, Efficient, and Broad Expertise

Staff backgrounds

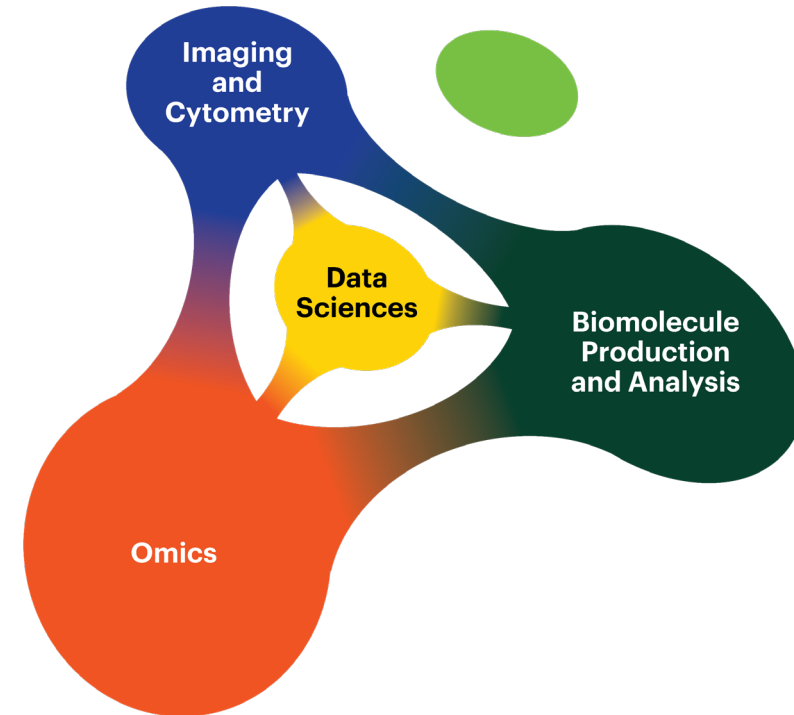
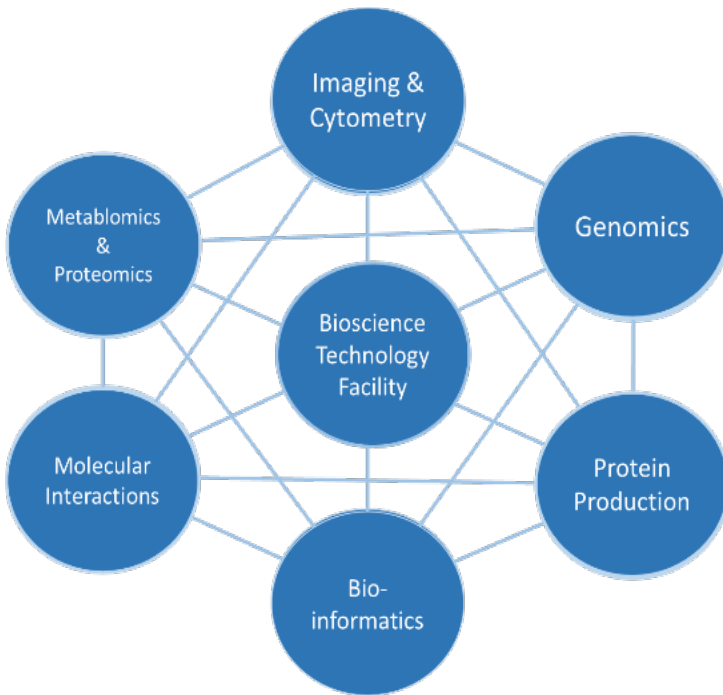


Adding resilience, efficiency and broadening skills

Staff backgrounds



- Create greater flexibility and integration within the facility, making it more resilient to change

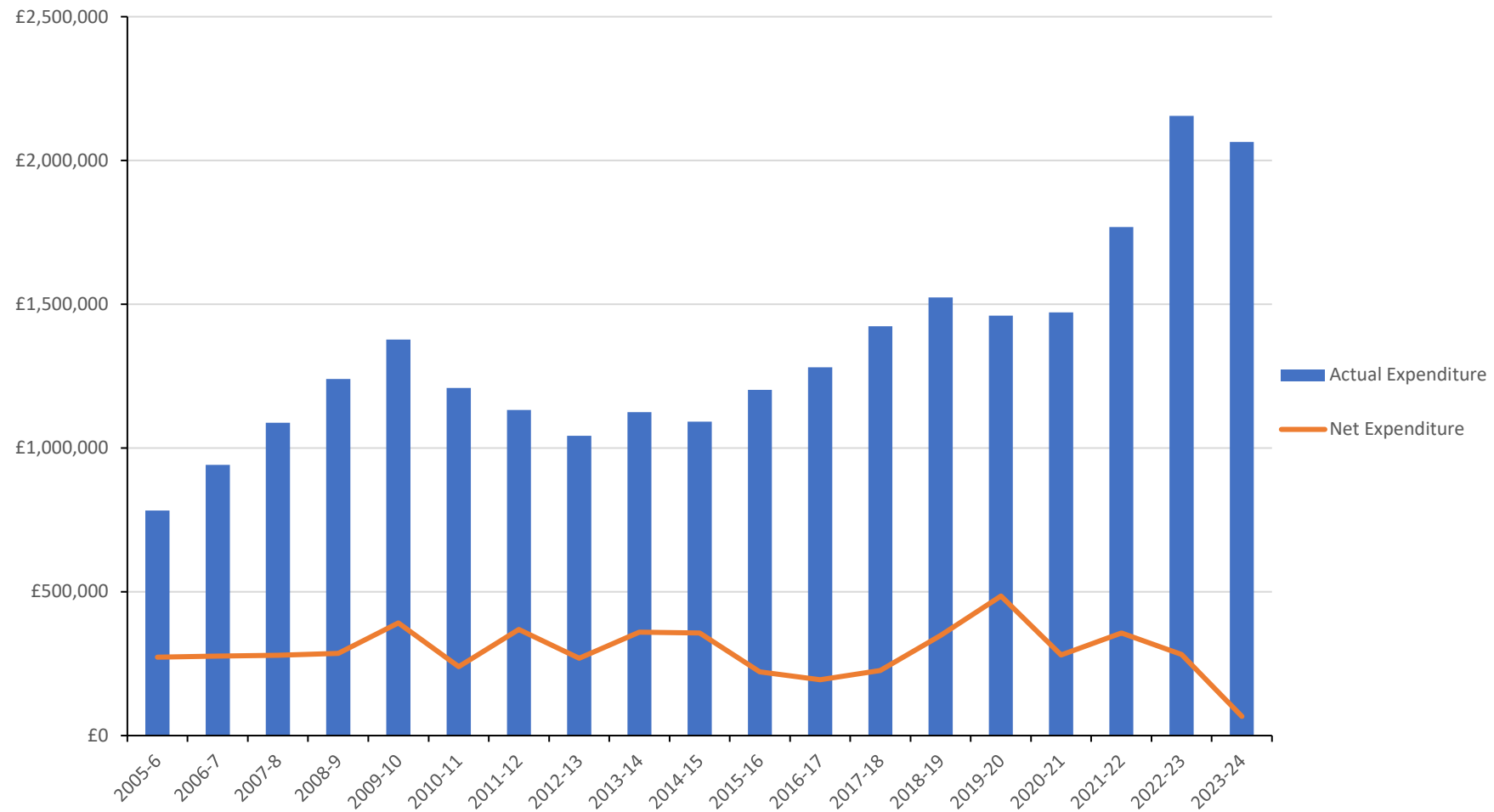


Opportunities – Roles within a Core



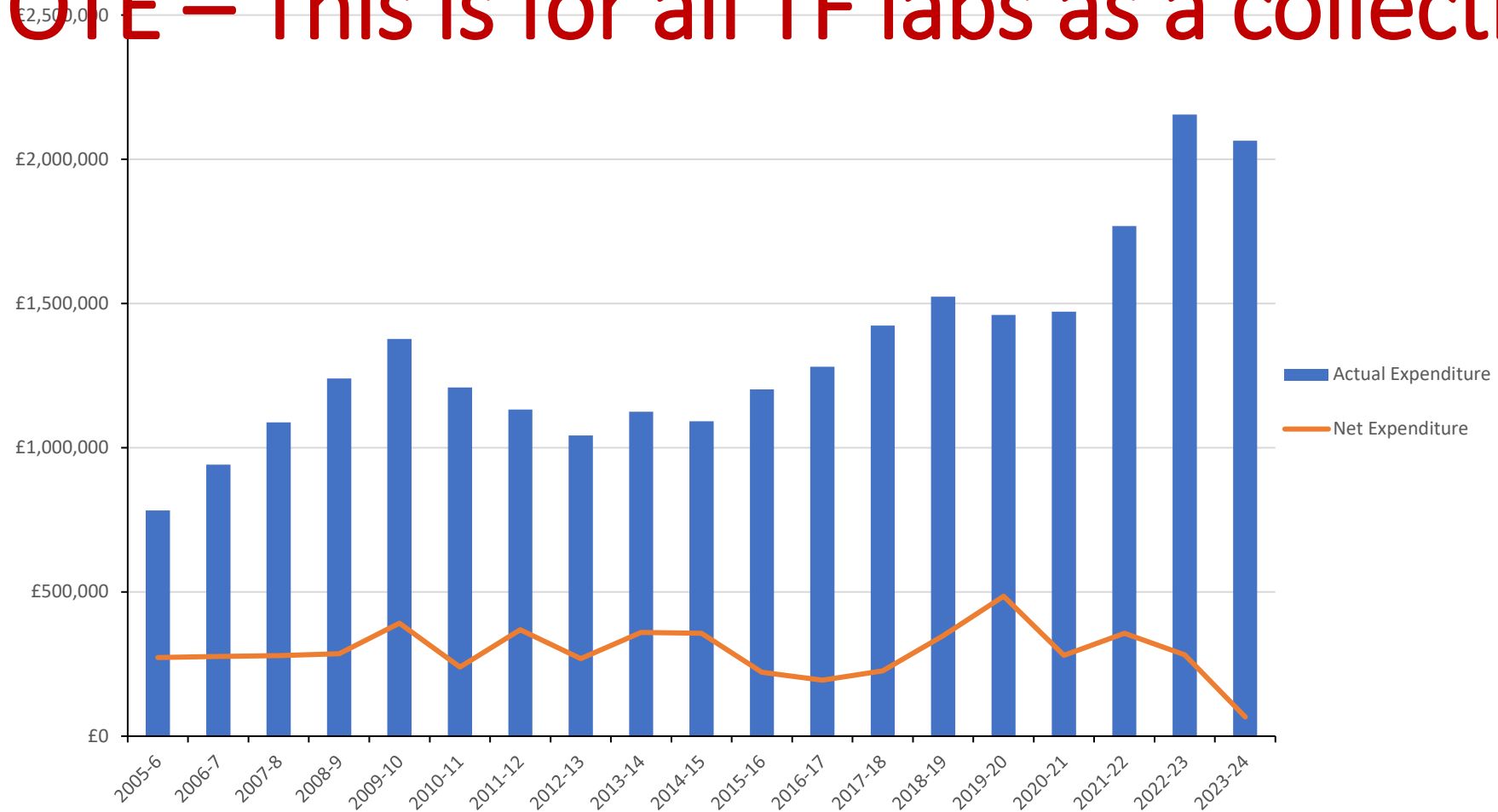
Knock Knock...

Annual Expend/Net Expend



Annual Expend/Net Expend

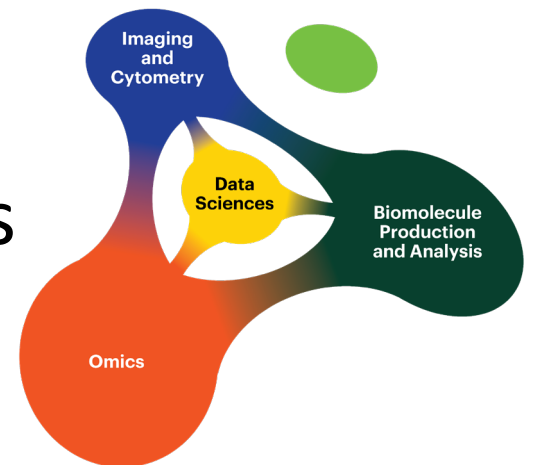
NOTE – This is for all TF labs as a collective



The next 20 years...Continuing Challenges



- Communication, Communication, **COMMUNICATION!!!**
- Every new group
- VC, Pro-VC, Head of Faculty, ...everyone with an interest
- New in Finance
- New in Procurement
- New in Grants Office
- New External Posts – e.g. New staff within funders



The Lab...



How to enable research without funding University citizenship



PhD Intern

Summer
Studentship

CTLS Mentee

School
Placement



Shadowing



GLOBAL
BIOIMAGING
growing collaboration





Establishing career paths within core facilities?



THEMED ISSUE ARTICLE | Open Access |

Recognising the importance and impact of Imaging Scientists: Global guidelines for establishing career paths within core facilities

Graham D. Wright, Kerry A. Thompson, Yara Reis , Johanna Bischof, Philip Edward Hockberger, Michelle S. Itano, Lisa Yen, Stephen Taiye Adelodun, Nikki Bialy, Claire M. Brown, Linda Chaabane, Teng-Leong Chew, Andrew I. Chitty, Fabrice P. Cordelières, Mariana De Niz, Jan Ellenberg, Lize Engelbrecht, Eunice Fabian-Morales, Elnaz Fazeli, Julia Fernandez-Rodriguez, Elisa Ferrando-May, Georgina Fletcher, Graham John Galloway, Adan Guerrero, Jander Matos Guimarães, Caron A. Jacobs, Sachintha Jayasinghe, Eleanor Kable, Gregory T Kitten, Shinya Komoto, Xiaoxiao Ma, Jéssica Araújo Marques, Bryan A. Millis, Kildare Miranda, Peter John O'Toole, Sunday Yinka Olatunji, Federica Paina, Cora Noemi Pollak, Clara Prats, Joanna W. Pylvänäinen, Mai Atef Rahmoon, Michael A. Reiche, James Douglas Riches, Andres Hugo Rossi, Jean Salamero, Caroline Thiriet, Stefan Terjung, Aldenora dos Santos Vasconcelos, Antje Keppler ... [See fewer authors](#) ^



First published: 01 May 2024 | <https://doi.org/10.1111/jmi.13307> | Citations: 1

Graham D. Wright, Kerry A. Thompson and Yara Reis contributed equally to this work.

SECTIONS



PDF



TOOLS



SHARE

Top 5 - Challenges regarding Career in Imaging Core facilities?



Take the Survey!

