



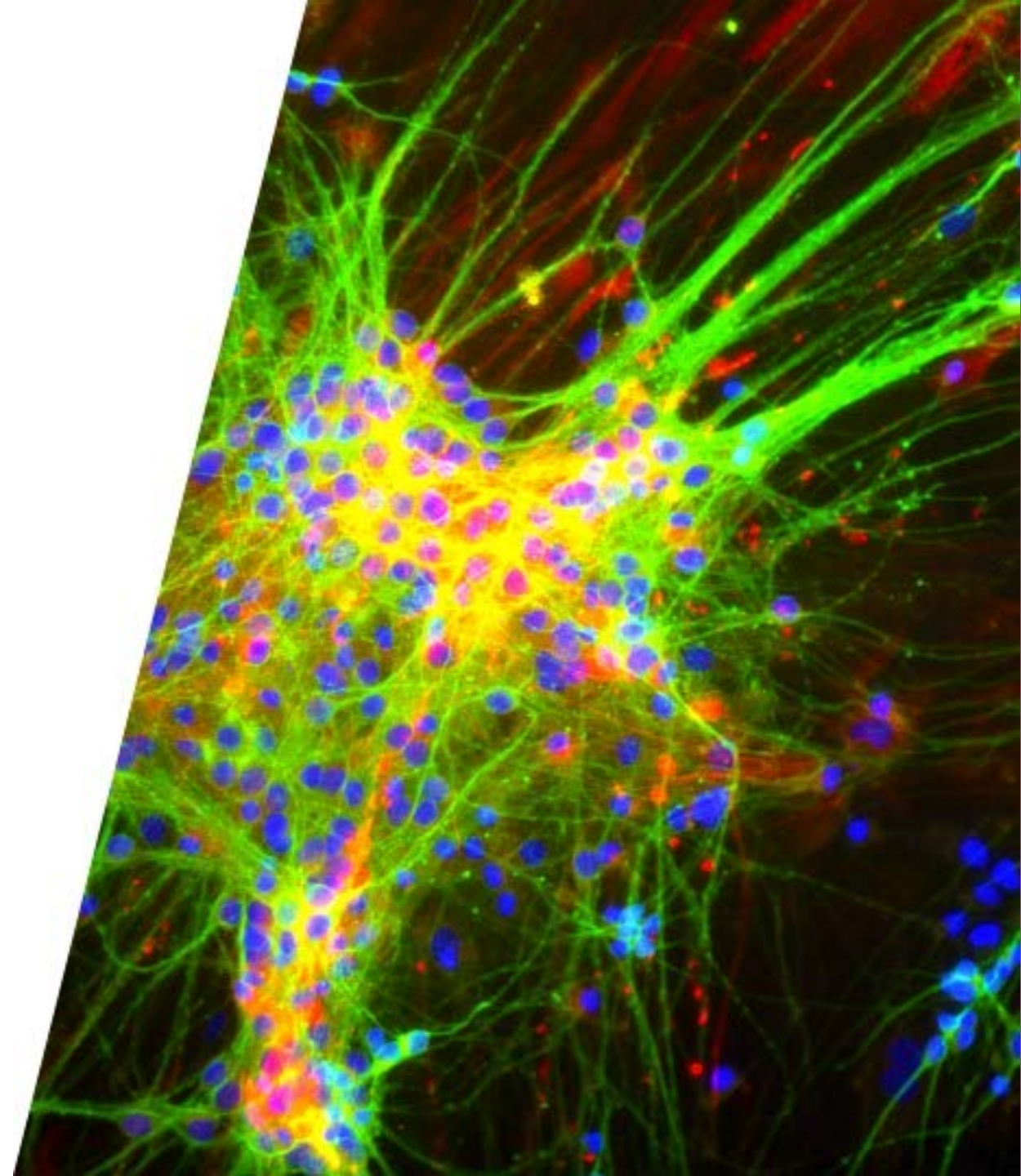
Biotechnology and
Biological Sciences
Research Council

BBSRC Perspectives on Bioimaging

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Associate Director: Frontiers and Foundations

Monday July 5 13:35-13:45



Bioimaging and BBSRC

Imaging is now the **dominant form of analysis** of molecules, cells, and tissues across Life Sciences¹.

Bioimaging technologies **cut across all areas of BBSRC's remit** (from plant and animal phenomics to drug delivery)¹.

Bioimaging tech explicitly used in a minimum of **38%** of BBSRC's funded portfolio from 2010-2014 (**~£1bn** of research funding)¹

Bioimaging **underpins all areas of bioscience**, in turn having an impact on the UK's bioeconomy¹.

Enhanced provision for **characterisation and imaging techniques of national importance** is highlighted as key for progress².

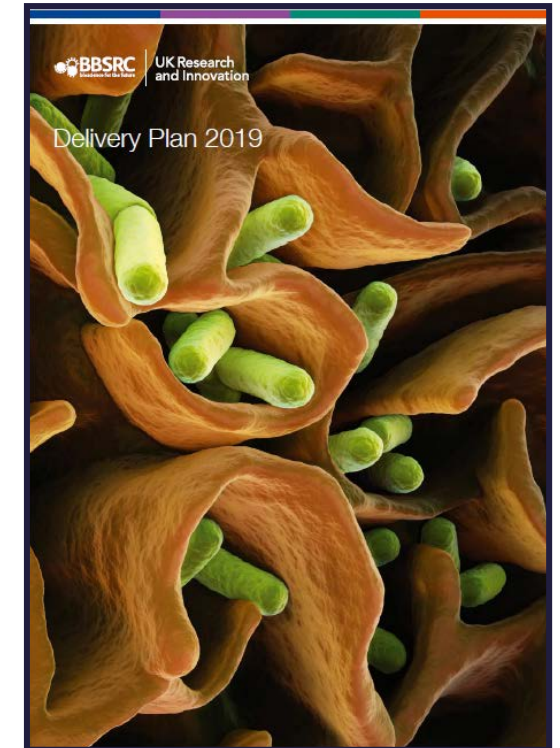
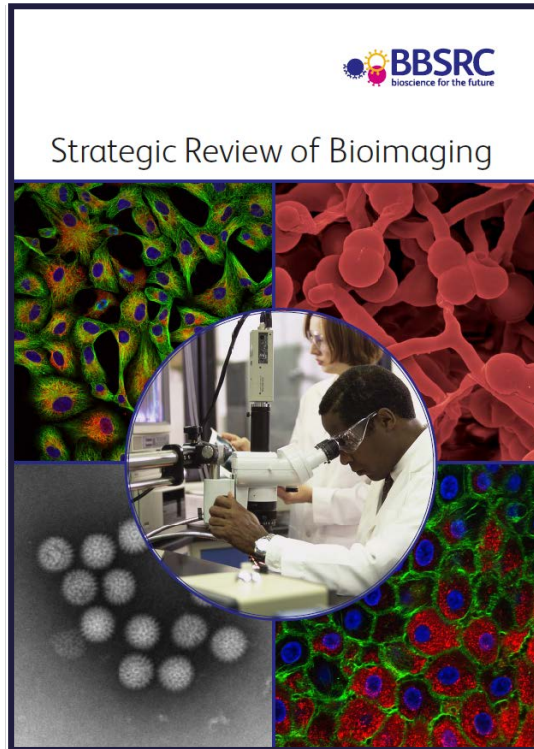
Maintaining UK strengths in core capabilities such as bioimaging that underpin fundamental research is a **key objective of BBSRC**³

¹UKRI-BBSRC: Strategic Review of Bioimaging 2018

²UKRI: The UK's research and innovation infrastructure: opportunities to grow our capability 2018

³UKRI-BBSRC: Delivery Plan 2019

Bioimaging and BBSRC (2)



Bioimaging and BBSRC (3)

- Infrastructure and Access
- Training and Skills
- Data Management and Analysis
- Working in Partnership with Industry
- International Engagement
- Enabling Future World-Class Bioscience

Theme 1

Advancing the frontiers of bioscience discovery



Understanding
the rules of life



Transformative
technologies

Theme 2

Tackling strategic challenges



Bioscience for
sustainable
agriculture and food



Bioscience for
renewable
resources and
clean growth



Bioscience for
an integrated
understanding of
health

Theme 3

Building strong foundations



People
and talent



Infrastructure



Collaboration,
partnerships and
KE



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BBSRC Support and Funding of Bioimaging

BBSRC Mechanisms of Support and Funding	
<i>Activity</i>	<i>BBSRC Support Mechanisms</i>
Equipment Funding	Responsive Mode (relatively small scale) Dedicated Initiatives e.g. ALERT (mid-range equipment) Strategic Investments (BBSRC-Sponsored Institutes)
Skills and Training	Centres for Doctoral Training (Post Graduate) Fellowships (PDRA) STARS (small-scale training)
Networking and Collaboration	Networks, e.g. BioImagingUK , EMAG ESFRIs e.g. Euro-BioImaging , ELIXIR , EMPHASIS Partnering Awards & International Workshops Conference session/special interest meeting sponsorship
Industry Engagement	Industrial Partnership Awards ‘Stand-alone’ LINK Follow on Fund (FoF)



Pilot UK Nodes for Euro-Biolmaging

- The UK has been a **founding member** of Euro-Bioimaging ERIC since 2019, having been involved in its development since 2011.
- Euro-Biolmaging represents a **significant opportunity** for the UK to engage in **skills and knowledge exchange** with **world-leading institutes** within Europe, ensuring UK Bioimaging research remains at the **bleeding edge**
- Pilot call now **LIVE** 14.06.21 – 26.07.21



For more info, contact
EuBI@bbsrc.ac.uk

- FOUNDING MEMBERS
- OBSERVER
- PROSPECTIVE MEMBERS
- HUB HOSTS



16
Members



25
Nodes



112
Imaging
Facilities.



30 Biolog.
Imaging
Tech.



14
Biomed.
Imaging
Tech.



3 Coord.
Hub Sites

Coordinated with our
community partner
BiolmagingUK



UKRI Support and Funding of Bioimaging



Natural
Environment
Research Council



Science and
Technology
Facilities Council



Research
England



Engineering and
Physical Sciences
Research Council



Biotechnology and
Biological Sciences
Research Council



Medical
Research
Council



Arts and
Humanities
Research Council



Economic
and Social
Research Council



Innovate
UK

Summary

- Bioimaging technologies **cut across all areas of BBSRC's remit**
- **Bioimaging features heavily in BBSRC's future strategy planning**, as outlined in our Strategic Review of Bioimaging 2018
- Historically **BBSRC has supported bioimaging across a broad range of activities** including equipment, infrastructure, skills and training, networking and collaboration, and industry engagement, and is very likely to continue doing so in the future
- BBSRC is currently running a **pilot call for identification of UK community access nodes for Euro-BioImaging** together with BioImagingUK – to find out more, search “BBSRC Community Access Nodes Euro-BioImaging” or contact **EuBI@bbsrc.ac.uk**





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Questions?