

Scientific facilities available at the Babraham Institute



Imaging

The Babraham Institute provides unique research facilities of national importance. These have been developed with significant investment from the BBSRC. The Imaging Facility provides supported access to state-of-the-art fluorescence imaging technologies and is fully accessible to commercial users. The Facility offers advice and training on a wide range of equipment and works with end users to find the best imaging solutions to meet their requirements. For commercial users with limited resources the Facility can process samples and provide image analysis solutions

The Technology

The Imaging Facility offers a number of different imaging technologies including confocal, wide-field, Total Internal Reflection Fluorescence (TIRF) and super resolution.

We also have a sophisticated High Content Imaging system for automated image capture from a large number of samples prepared in a multi-well format. The Facility has a range of software solutions for image processing and analysis and can provide a bespoke image analysis service.

All imaging systems are configured to be as flexible as possible to cater for a wide range of applications and most are compatible with live cell imaging, with the provision of incubation systems to maintain temperature and CO₂.

Pricing

The equipment and services provided by the Imaging Facility are available for commercial use on an hourly basis subject to availability.

For training, supervised use and work undertaken on behalf of companies there is a standard rate of £90 per hour + VAT.

Most instruments can be used unsupervised at a reduced rate of £65 per hour + VAT. Following satisfactory induction, equipment can be booked directly by campus companies via the Babraham campus intranet.



Equipment & Software

High Content Imaging

- GE InCell 6000

Confocal

- Olympus FV1000
- Nikon A1-R confocal
- Andor spinning disk

Multi-photon

- Zeiss LSM 7 with Coherent Chameleon and OPO

Super Resolution

- Nikon N-SIM/N-STORM

Other

- Zeiss MicroBeam Laser Capture Microdissection
- Olympus xCellence wide-field
- Andor TIRF

Analysis software

- Imaris, Volocity and Huygens

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Bioinformatics

The Bioinformatics group has a wide range of experience covering virtually all aspects of modern bioinformatics and statistics in both academic and commercial settings.



Biological Chemistry

The Biological Chemistry Facility provides a research capability to solve biological problems through the use of chemical knowledge and synthetic chemistry skills.



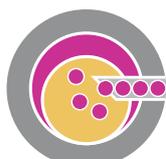
Biological Support Unit

The Biological Support Unit (BSU) provides housing and care for rodents at a highly defined health status, offering the highest standards of welfare, excellence in husbandry and procedural technique to support both academic scientific research programmes and private companies.



Flow Cytometry

The Flow Cytometry Facility offers high quality service and state-of-the-art instrumentation to members of the Babraham Institute and external companies, including those based on the Babraham Research Campus.



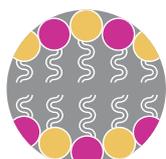
Gene Targeting

The Babraham Gene Targeting Facility provides a complete service to generate novel genetically altered mouse strains for biopharmaceutical companies and academic institutes.



Imaging

The Imaging Facility provides supported access to state-of-the-art fluorescence imaging technologies and offers expertise in live and fixed cell imaging.



Lipidomics

The Babraham Lipidomics Facility has established a series of LC-MS/MS, GC-MS/MS and HR/AM direct infusion mass spectrometric methods to analyse 37 classes of neutral lipids, phospholipids and sphingolipids from various biomedical samples.



Mass Spectrometry

The Mass Spectrometry Facility is equipped with a range of high resolution systems, which can be used for the identification, characterisation and quantitation of almost any type of biomolecule.



Sequencing

The Next Generation Sequencing Facility provides library quality control and sequencing services for the Babraham Institute and external companies, offering a variety of sequencing solutions for different project sizes and a broad range of applications.

