

## Newsletter

Edition 17 July 2019

### Clinical Research Fellows

The Centre of Membrane Proteins and Receptors (COMPARE) is seeking to support four fellowships to facilitate translation of research in the Centre which focusses on G protein-coupled receptors, ITAM receptors and VEGF receptors in cardiovascular, metabolic or respiratory disease.

Two fellowships will be based in Birmingham and two in Nottingham. The fellowships will provide either 12 months support for a clinician to bridge applications for funding to undertake a PhD, or for 18 months for a non-clinician. Each fellow should report to a COMPARE investigator (see <http://www.birmingham-nottingham.ac.uk/compare/> for a list of COMPARE PIs) and to a research-active clinician. Candidates should identify a supervisory team and research project prior to submitting an application.

Fellowships to start between the 1st October 2019 and 1st August 2020.

Informal enquiries can be made to Steve Watson (s.p.watson@bham.ac.uk) or Steve Hill (Steve.Hill@nottingham.ac.uk).

Candidates for the Nottingham vacancies should submit a one page letter naming the supervisors and summarising the project along with their CV and the names of two referees, to the following email addresses;

Nottingham: [compare@birmingham-nottingham.ac.uk](mailto:compare@birmingham-nottingham.ac.uk) by the 1st September 2019

Applications for the Birmingham vacancies can be made via the following links by the closing date of the 16th August 2019.

Research Fellow—Cardiovascular Sciences—81736—Grade 7  
<https://bham.taleo.net/careersection/external/jobdetail.ftl?job=190001UR&tz=GMT%2B01%3A00&tzname=Europe%2FLondon>

Clinical Research Fellow—Cardiovascular Sciences—81736—Clinical  
<https://bham.taleo.net/careersection/external/jobdetail.ftl?job=190001UM&tz=GMT%2B01%3A00&tzname=Europe%2FLondon>

### Annual Research Symposium

Registration is open for the COMPARE Annual Research Symposium on Thursday 26th September. This year the symposium will be held at the Jubilee Conference Centre at the University of Nottingham, click [here](#) for full details and the registration link.

<https://www.eventbrite.com/e/compare-annual-research-symposium-2019-registration-56493968982>

### Key Dates

**Annual Research Symposium**  
26th September 2019  
Jubilee Conference Centre  
Nottingham

### External Conferences

**ELRIG Drug Discovery 2019**  
5th-6th November, Liverpool  
<https://elrig.org/portfolio/2019-drug-discovery/>

**QBI 2020 Conference 2020**  
6-9th January 2020  
University of Oxford  
<https://www.quantitativebioimaging.com/qbi2020/>

[birmingham-nottingham.ac.uk/compare](http://birmingham-nottingham.ac.uk/compare)



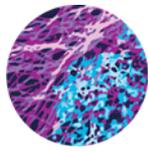
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If you have any items for the next newsletter please send to:

[compare@birmingham-nottingham.ac.uk](mailto:compare@birmingham-nottingham.ac.uk)

### IN PARTNERSHIP:

The Universities of Birmingham and Nottingham



## Microscopes—University of Birmingham

**Arivis Vision 4D and the Ultramicroscope II are now available at The University of Birmingham.**

Arivis Vision 4D allows for the efficient handling of multidimensional data generated from several imaging modalities including light sheet, confocal and widefield systems. The software is capable of easily rendering multi-terabyte datasets generated from light sheet imaging experiments. Users can import image for visualisation, stitching, deconvolution and analysis in 3D and 4D.

More information about Arivis can be found [here](#).

(<https://www.arivis.com/en/imaging-science/arivis-vision4d>)

### The Ultramicroscope II

The [Ultramicroscope II](#) is a light sheet microscope used for 3D fluorescent imaging of large, clarified samples. The microscope is capable of delivering cellular details while keeping the overview of your sample. The system is equipped with dual light sheets that excite the sample from two views improving signal homogeneity and reducing shadowing. Advantages of the system compared to a confocal microscope include high speed acquisition of 3D data (x,y,z), decreased photobleaching and the ability to image large samples e.g. mouse brain. Laser lines include 488, 561, 640 and 760 nm.

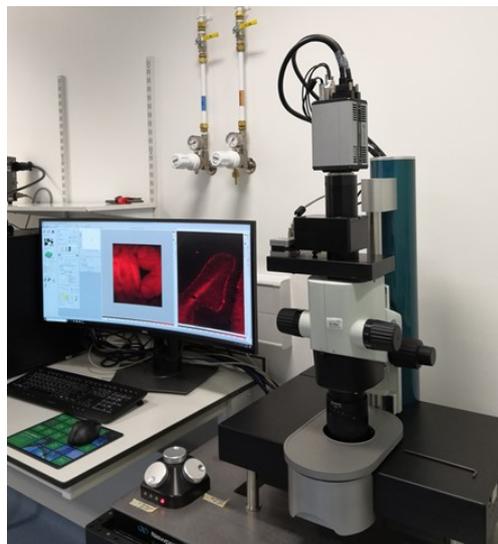
Large samples need to be cleared to reduce opacity, therefore the Ultramicroscope II is compatible with a range of aqueous and solvent based clearing solutions including [CLARITY](#), CUBIC, 3DISCO and [iDISCO](#).

Please note the microscope is not suitable for projects that require sub-cellular resolution. COMPARE has a range of microscope for these applications, please visit our [technology](#) page for information.

### References

[Bozycki](#) et al., Optimized perfusion-based CUBIC protocol for the efficient whole-body clearing and imaging of rat organs. J Biophotonics. 2018.

[Lozovaya](#) et al., GABAergic inhibition in dual-transmission cholinergic and GABAergic striatal interneurons is abolished in Parkinson disease. Nat Commun. 2018.



Please contact [Dee Kavanagh](#) at University of Birmingham to arrange access.