The research commercialisation office of the University of Oxford, previously called **Isis Innovation**, has been renamed **Oxford University Innovation**

All documents and other materials will be updated accordingly. In the meantime the remaining content of this Isis Innovation document is still valid.

URLs beginning www.isis-innovation.com/... are automatically redirected to our new domain, www.innovation.ox.ac.uk/...

Phone numbers and email addresses for individual members of staff are unchanged

Email : enquiries@innovation.ox.ac.uk

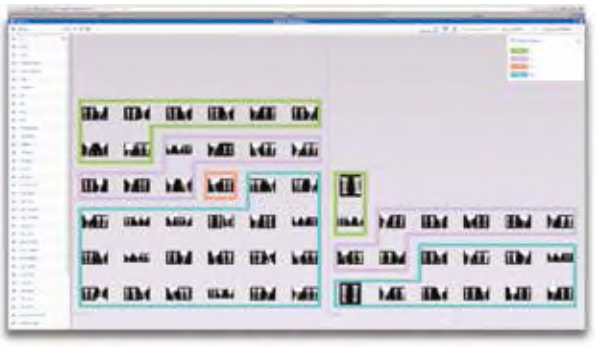
Zegami - A tool for image data exploration

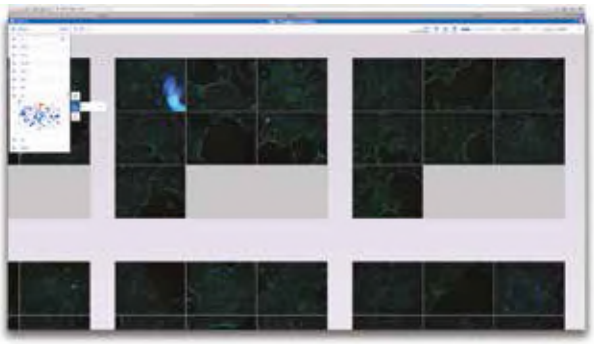
Capable of sorting and filtering over 40,000 images in real-time, Zegami aims to help users generate new insights and hypotheses from large image collections, via its brand new web interface.

Biological imaging is generating an unprecedented amount of data. New, sophisticated imaging techniques yield large, heterogeneous, multidimensional data sets that need to be viewed, analysed, annotated, queried and shared.

There is a need for advanced analytical tools for biological imagery in order to advance biomedical research. A key requirement is automated tools characterizing the phenotype of images and extracting higher-level information content. Traditionally, this is only possible through individual analysis by a highly trained researcher. We believe that there is a growing requirement for tools that enable the efficient exploration of the growing amount of data generated.

A key aim of this research is to allow mining of complex data sets and computer predictions for particular features. In addition, the ability to allow users to quickly filter out false positive leads using raw data has to be retained. Zegami allows visualisation and seamless querying of associated metadata across collections of thousands of images. It supports knowledge discovery and has particular utility in biological image analysis. Zegami's key features are:





- High usability, a dynamic and intuitive way of investigating large image collections with metadata
- Can view and zoom into thousands of images at fine levels of detail
- Can use data associated with each image in complex queries
- Will work on all platforms including touch screens

Given the increasing numbers of images and movies generated in other fields, we believe Zegami has wider applications in medicine, physics, astronomy, movie management, document management, gaming and photo sharing domains.

Further information and a demonstration of the software can be found at: http://zegami.com/ and http://demo.zegami.com/

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