



The MRC Weatherall Institute of Molecular Medicine is a strategic alliance between the Medical Research Council and the University of Oxford



A tool for image data exploration

Capable of sorting and filtering thousands of images in real-time, Zegami aims to help users generate new insights and hypotheses from large image collections, via its powerful web based interface. Stephen Taylor*, Weatherall Insitute of Molecular Medicine, Oxford, UK. Roger Noble,[†]Zegami Ltd, Oxford, UK. *stephen.taylor@imm.ox.ac.uk,[†]rnoble@zegami.com



Interact with data and images using data brushing

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sophisticated imaging techniques yield large, multidimensional data sets that need to be viewed, analysed, annotated, queried and shared.

As high throughput computational tools have enabled large-scale dna sequence analysis, analysing large numbers of images requires informatics tools to be improved. Image analysis techniques usually require visual inspection and verification of the analysis results, but access to raw and derived results of many images rapidly becomes a challenge. Even image collections of large manually annotated databases may be difficult to comprehend since users frequently want to observe patterns that may not necessarily be captured in the metadata.

A key aim of this research is to facilitate mining of complex image data sets, allowing users to quickly filter out false positive leads and combine querying with the human brain's innate pattern recognition ability.

Zegami allows visualisation and seamless querying of associated metadata across collections of thousands of images and movies in any web enabled device.



Find similar images in your data set



Zegami Key Features

Fast, intuitive display, allowing zoom to any level



Get overviews on large NGS data sets e.g. Sashimi plots for alternative splicing

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Extend UI using your own plugins e.g. Geolocation



Conclusions

A highly usable, dynamic and intuitive way of investigating large image collections with metadata.
View and zoom into thousands of images at fine levels of detail.



- Use data associated with each image in complex queries.
 Works on all modern web browsers and includes support for touch screens.
- Fully documented extensible, plugin architecture.
- Free download for academics.

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.

For more information and download details go to zegami.com