

# Open Educational Resources in the Biosciences

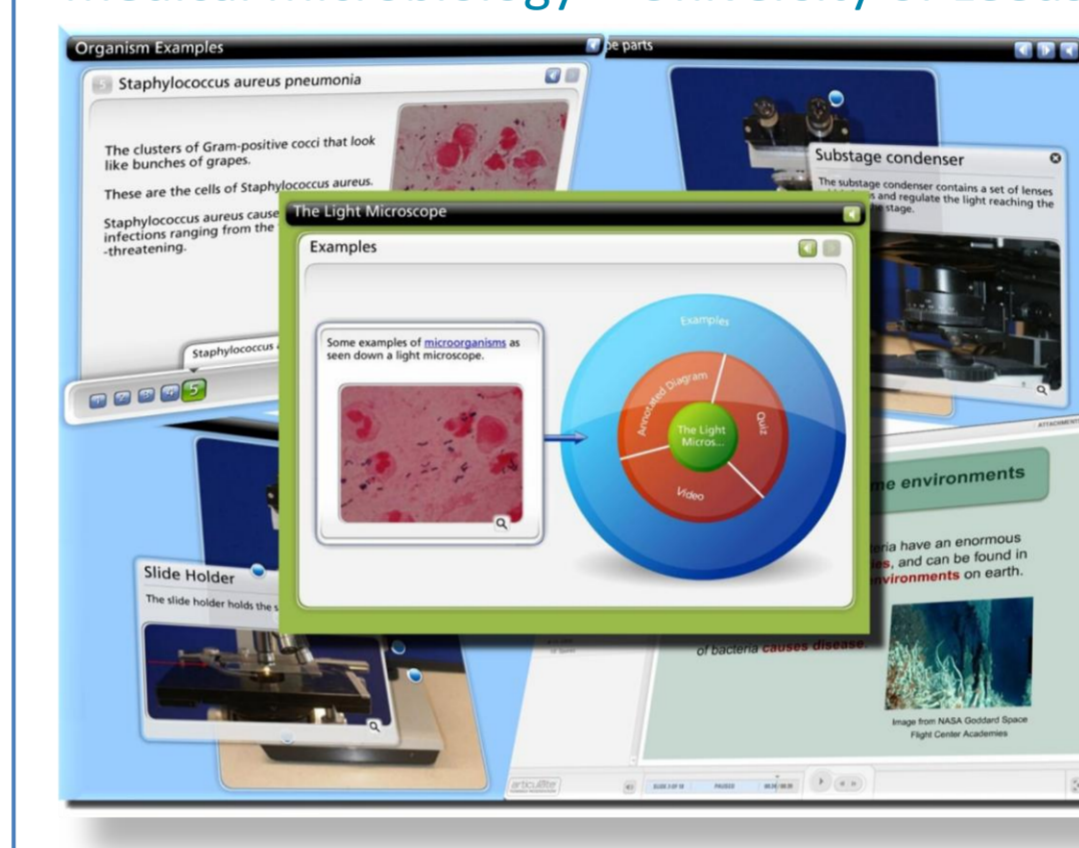
## Enhancing Teaching and Learning with Laboratory and Fieldwork Resources

Finding and adapting resources to support practical work can be difficult. The **UK Centre for Bioscience** managed a programme across ten institutions to enable the preparation and sharing of **Open Educational Resources (OER)** specifically to support laboratory and fieldwork teaching, to build an

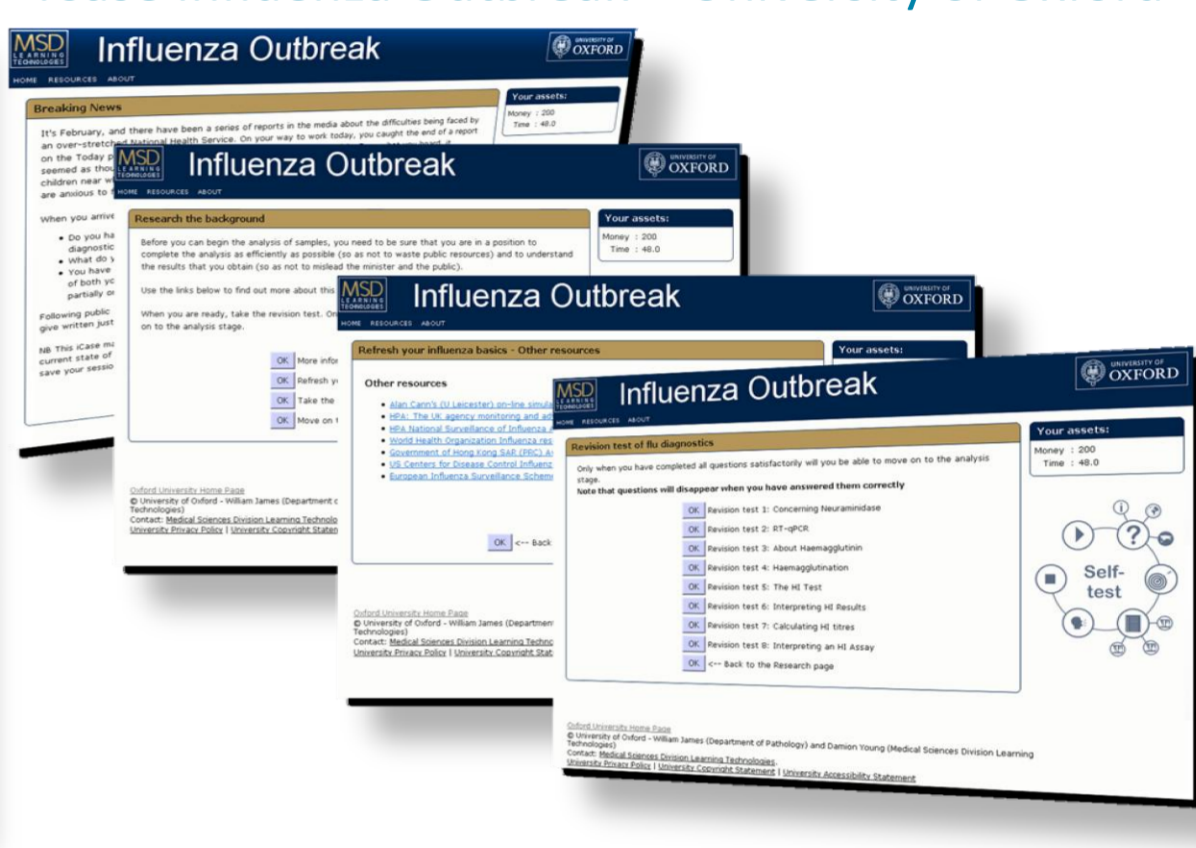
## 'Interactive Laboratory and Fieldwork Manual for the Biosciences'

The programme delivered over 360 credits' worth of high quality, proven teaching resources, released under a Creative Commons Share-Alike licence, designed to allow sharing and reuse. These are hosted on a freely accessible JISC-supported repository, **JorumOpen**, and links to all resources and further information can be found on our website:

Medical Microbiology - University of Leeds

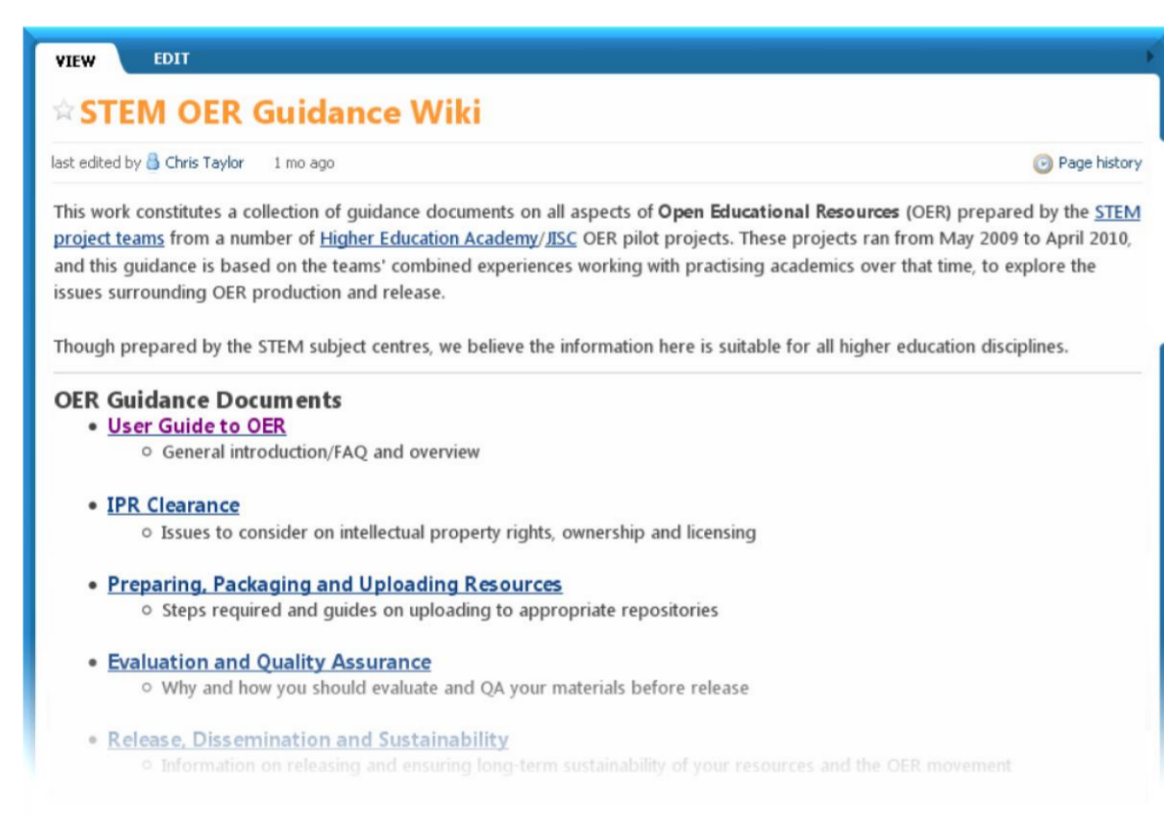


iCase Influenza Outbreak - University of Oxford



[www.bioscience.heacademy.ac.uk/resources/oer](http://www.bioscience.heacademy.ac.uk/resources/oer)

## OER Guidance Wiki



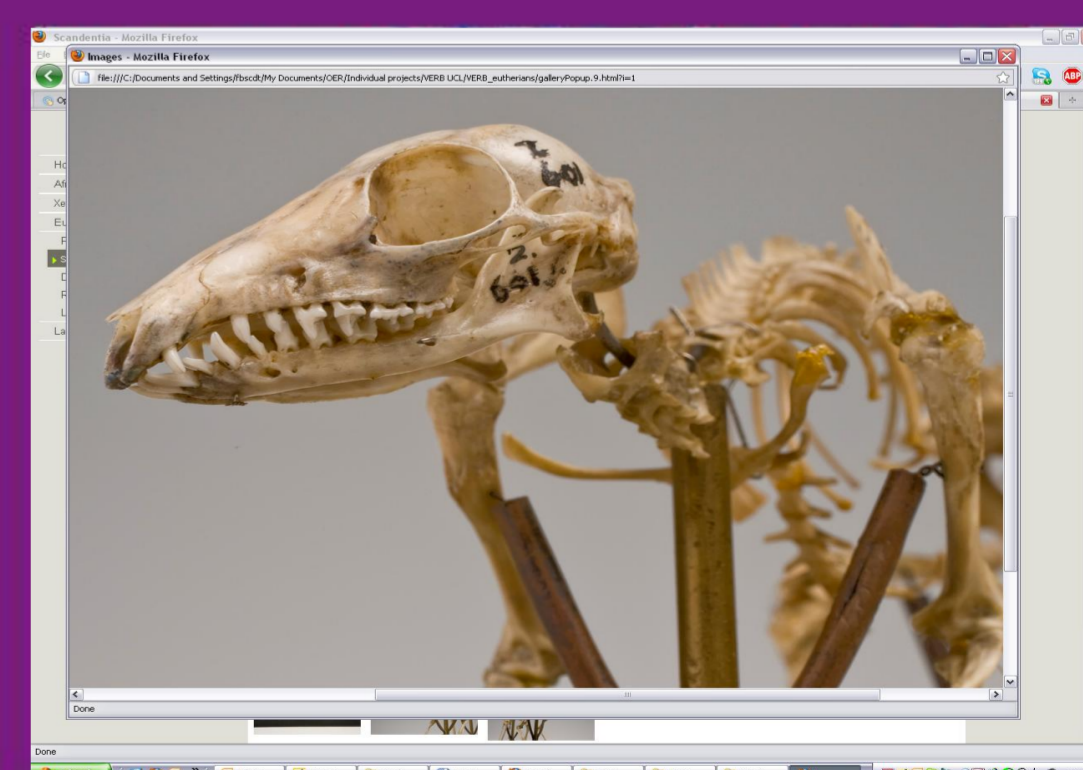
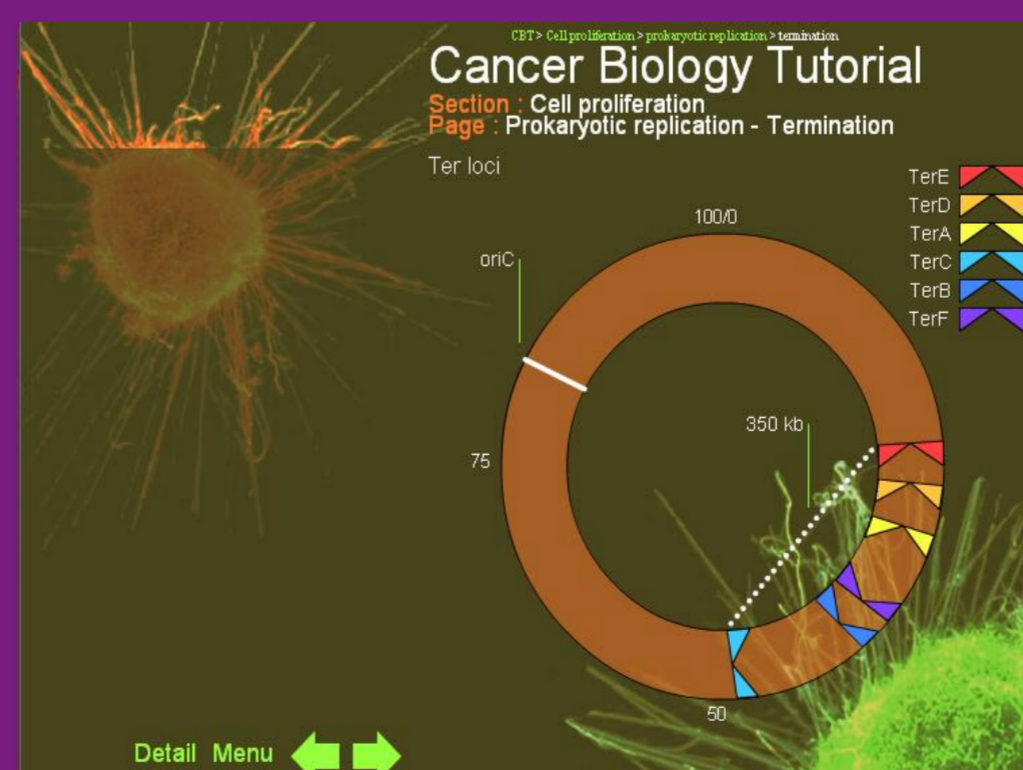
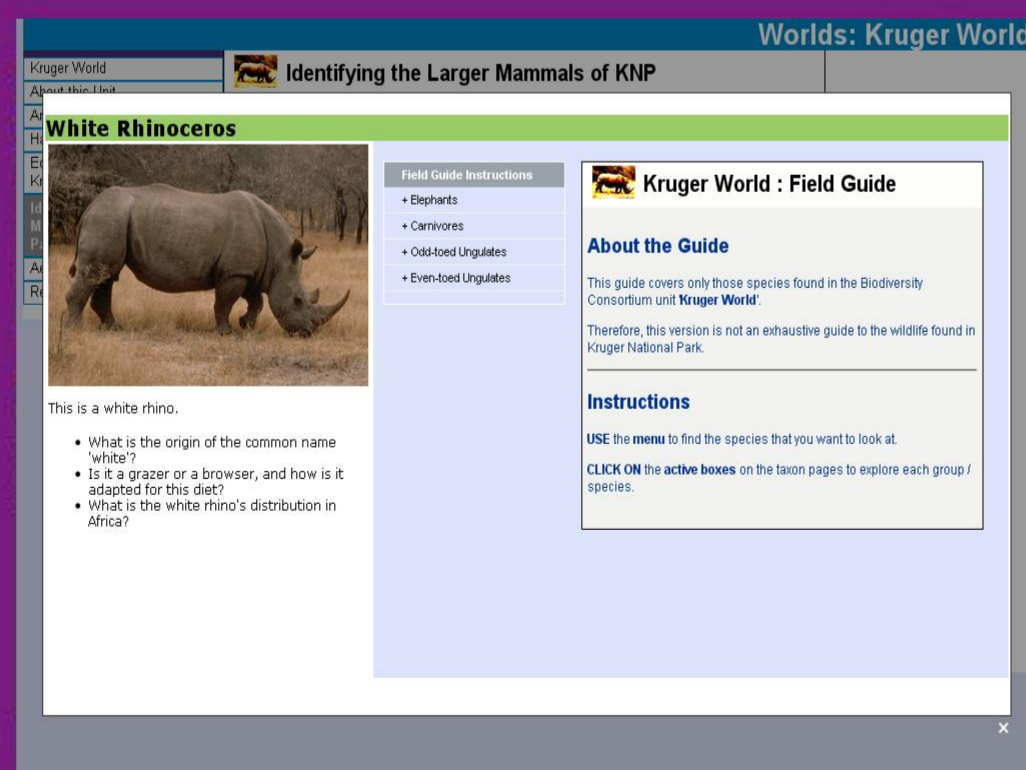
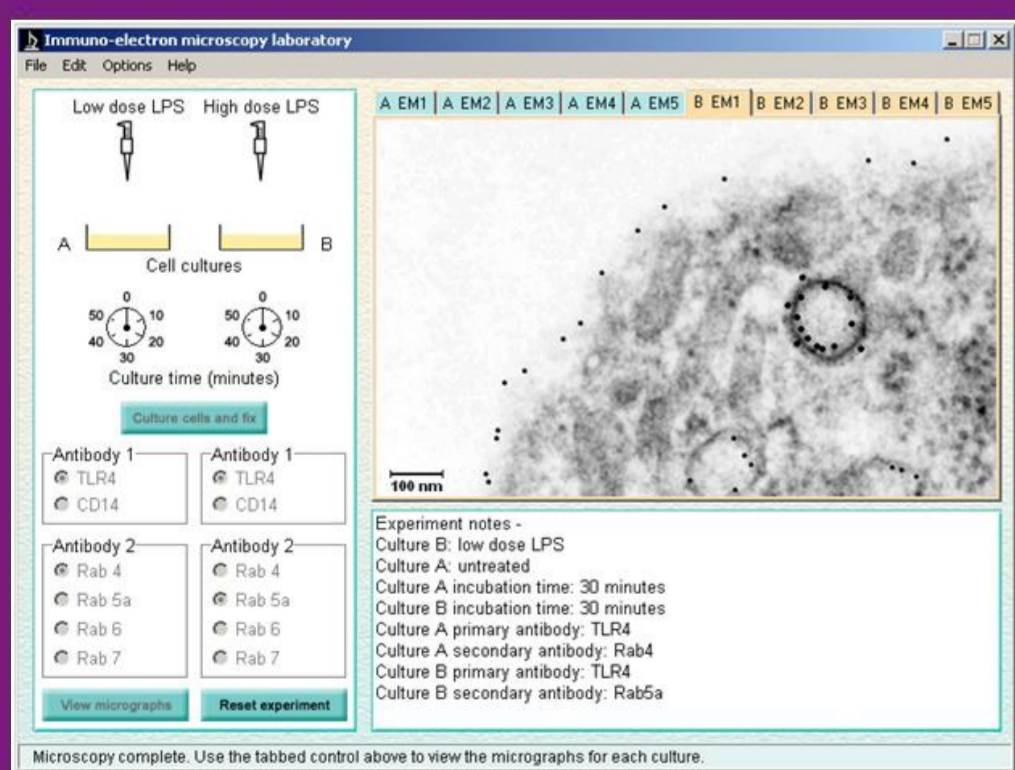
<http://stemoer.pbworks.com>

Created as a starting point for anyone interested in using or producing OER, the Wiki contains a number of guides and advice based on the STEM Subject Centres' combined experiences working with practising academics to explore the issues surrounding OER production and release.

## About the resources:

The Bioscience OERs cover a range of subjects, from evolutionary history to microbiology and genetic analysis, and are available in a range of formats, including:

- Interactive laboratory simulations
- Scenario-based learning packages
- PowerPoint presentations
- Video and Image collections
- Pre-lab demonstrations/exercises
- Flash-based tutorials
- Articulate/Engage activities
- Hosted, service-based case studies



## What are OER?

Open Educational Resources are resources for learning and teaching which are specifically designed with a different and distinct purpose; to *encourage* re-use, re-mixing and re-purposing.

## How can you contribute?

- Download and use the resources in your own teaching
- Build on and enhance the resources and share your enhancements back to the community
- Give either us or the creators constructive feedback or information on how you've used them
- Create your own OER and upload for others to benefit
- Promote OER amongst your colleagues

