Web-based display of 3D data with the Interactive Embryo Viewer (IEV)

OMERO User Meeting, Dundee, Scotland

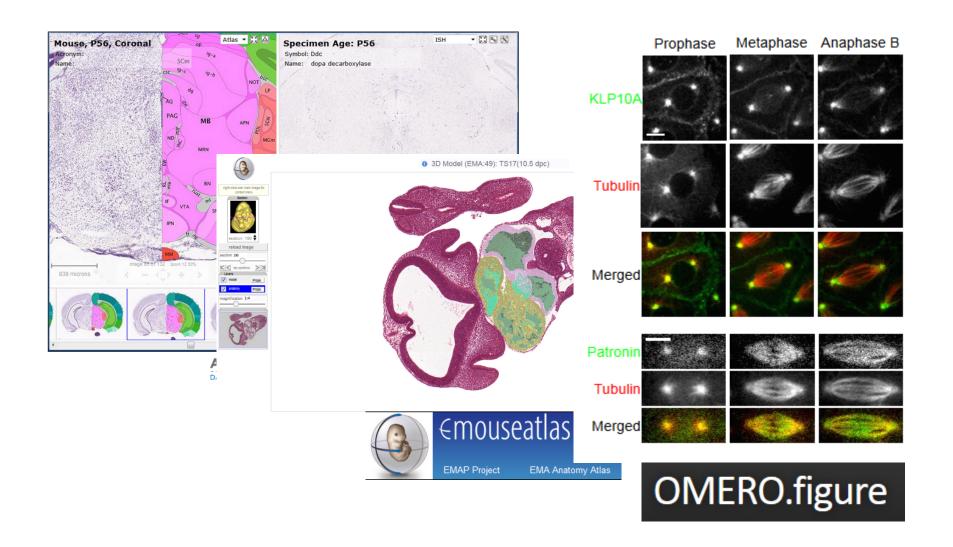
May 31st 2016

Henrik Westerberg, Team Leader, Systems Imaging Group James Brown Neil Horner Jennifer Vibert

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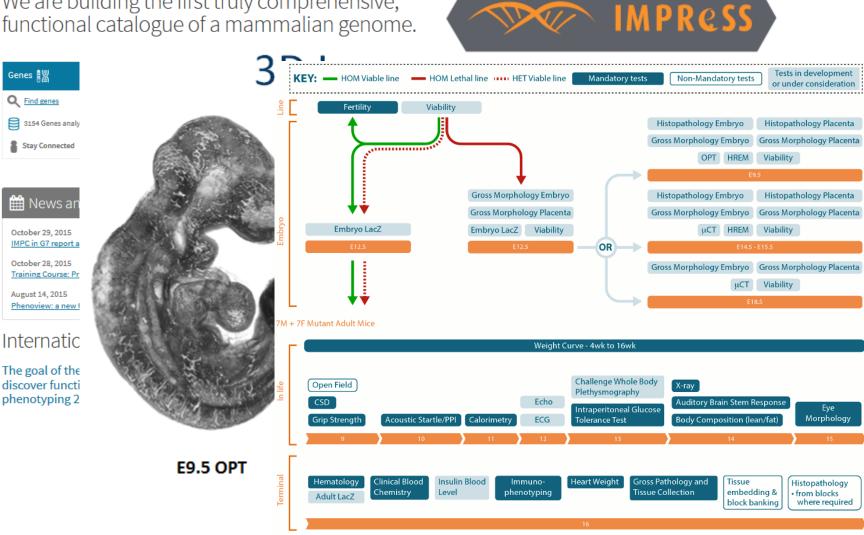


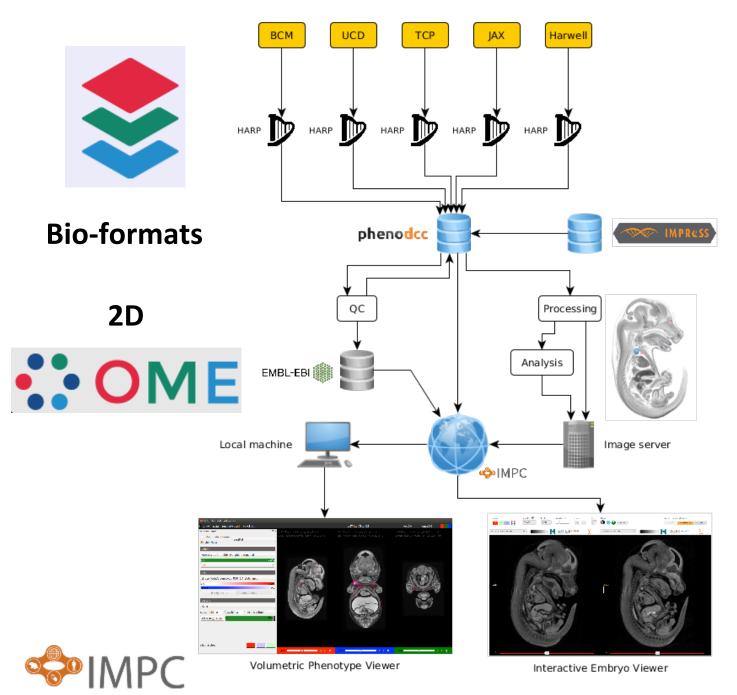
Dissemination of 3D image data on the web



International Mouse Phenotyping Consortium (IMPC) www.mousephenotype.org

We are building the first truly comprehensive, functional catalogue of a mammalian genome.



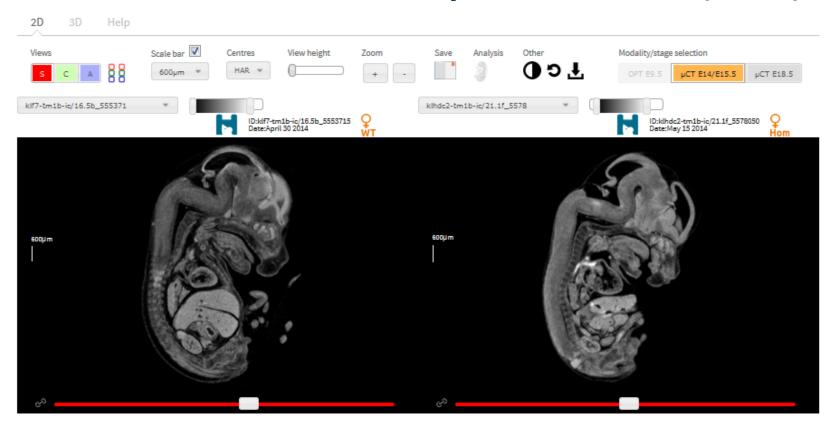


3D

MRC Harwell
Mysql database
defined directory
structure



Interactive Embryo Viewer (IEV)



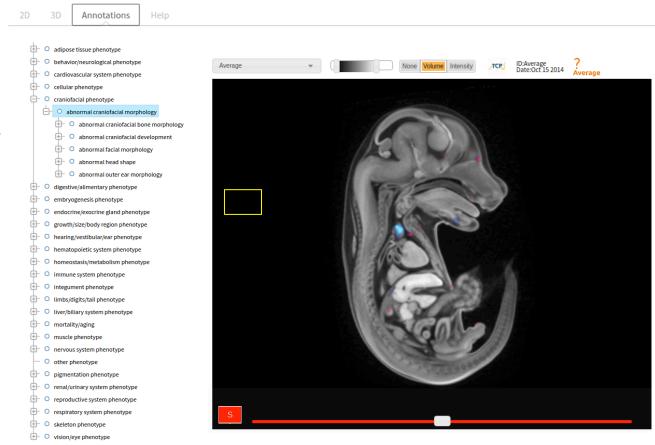
- Rapid and intuitive access into the data
- Developed in Javascript, 2D/3D support provided by XTK
- Integrate the display into OMERO





Annotations Mockup within IEV

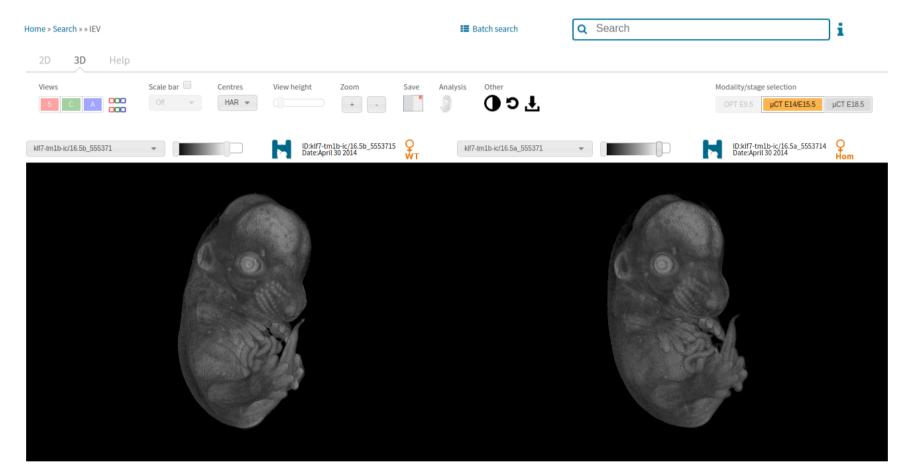
- Links regions of interest to ontologies (EMAP-PATO)
- Found through a high throughput image analysis pipeline







New: 3D mode released to live



http://www.mousephenotype.org/embryoviewer/?gene_symbol=Klf7&v=3d



