HMS Parallel Image Analysis Strategy using OMERO

To enable analysis of large quantities of image data and associated metadata by making use of existing compute and storage resources in conjunction with a new OMERO resource.

Douglas Russell

Harvard Medical School

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- Roll-out OMERO campus wide
- Define new workflow for image management
- Define new workflow for image analysis
- Enable large scale parallel analysis especially for High Content Screens
- Enable collaborative sharing
- Enable data publication
Filesystems

EMC ISILON Distributed Parallel Filesystem

OMERO Managed Repository

OMERO User Home Directories

User Home Directories

User runs in-place import

Symlinks

NFS

OMERO
(Tiny Subset of) Challenges

- Authorization & Permissions
- Generalising Solution
- Publishing
- Federation
- Useability
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Notice of Conflict of Interest: Peter Sorger (HMS LINCS PI) is a co-founder of Glencoe Software Inc. that is developing OMERQ software and selling OMERQ support services.