Set up and testing of a High Performance Computational Infrastructure for processing and visualizing neuro-anatomical information obtained using CLSM

Cerebellum

Confocal Light Sheet Microscopy (CLSM)

Teravoxel-sized 3D image

Projectome Environment

High Performance Computing platform running:
- Projectome Toolkit
- iRODS Data Grid
- Remote Visualisation Service

Projectome Environment

Storage Processing 3D Stiching Sharing

Visualization Annotation (under dev.) Data Mining & Clustering (under dev.) Knowledge extraction (under dev.) Features Extraction

TeraStitcher
(Vaa3D plugin)

3D Stitching

TeraManager
(Vaa3D plugin)

3D Visualization

Vaa3D

Annotation, neuron tracing, brain registration

NeuronMarker

Proofreading of neuron detector