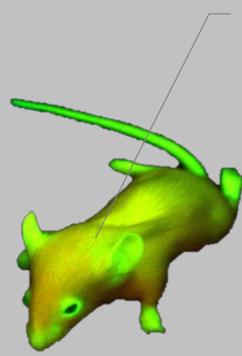


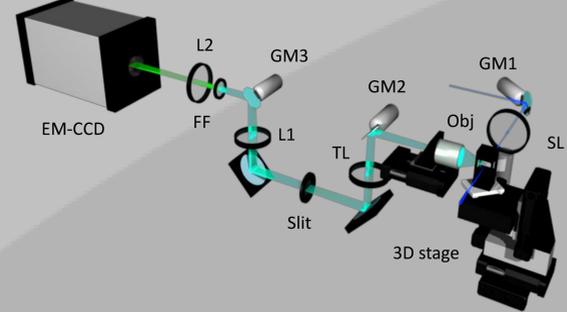
Set up and testing of a High Performance Computational Infrastructure for processing and visualizing neuro-anatomical information obtained using CLSM



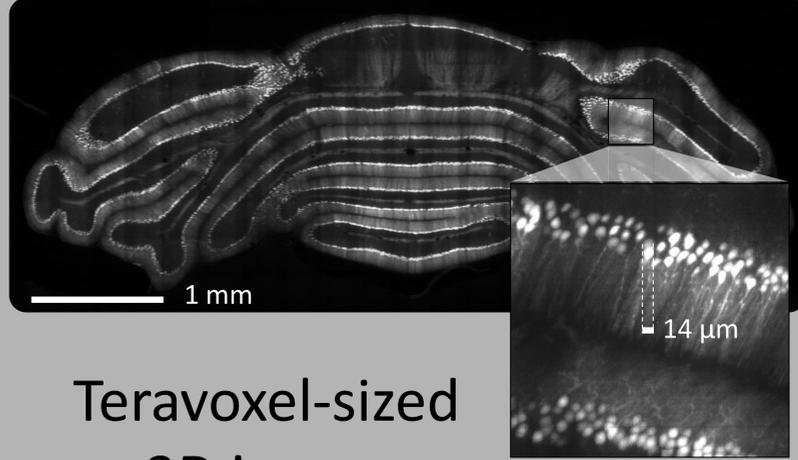
P10 L7-GFP mouse



Cerebellum



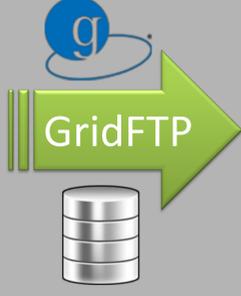
Confocal Light Sheet Microscopy (CLSM)



Teravoxel-sized 3D image



Biophotonics Group



GridFTP



CINECA



Projectome Environment

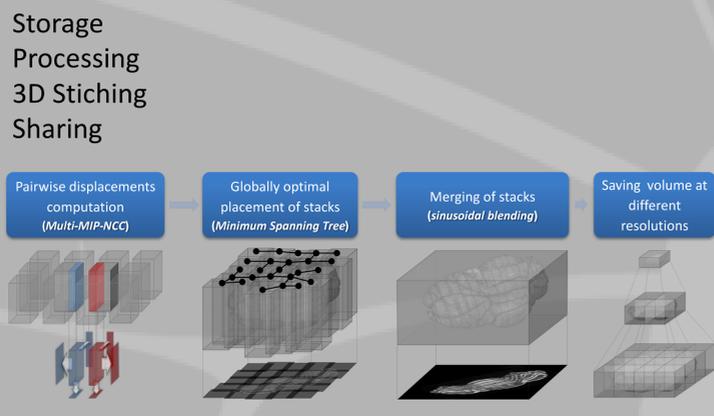
High Performance Computing platform running:

- Projectome Toolkit
- iRODS Data Grid
- Remote Visualisation Service

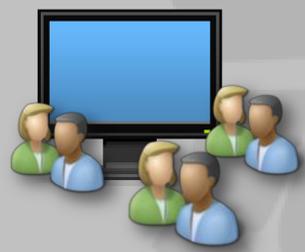
Projectome Environment



Storage Processing 3D Sticking Sharing

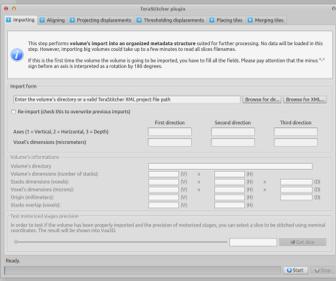


Visualization Annotation (under dev.) Data Mining & Clustering (under dev.) Knowledge extraction (under dev.) Features Extraction



TeraStitcher

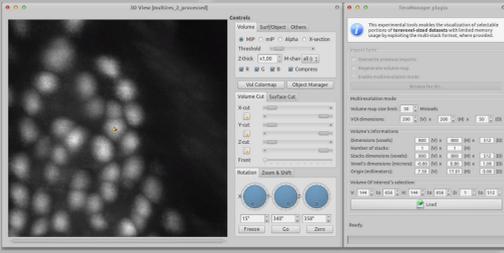
(Vaa3D plugin)



3D Stitching

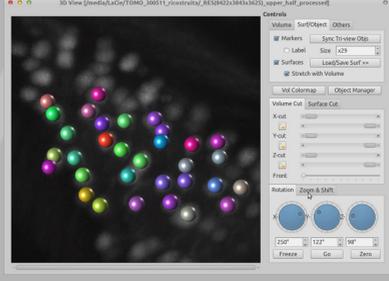
TeraManager

(Vaa3D plugin)



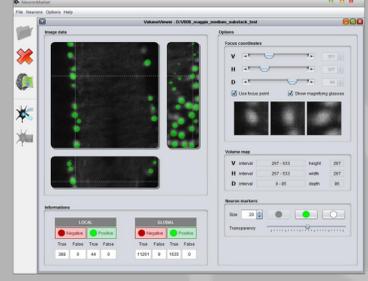
3D Visualization

Vaa3D



Annotation, neuron tracing, brain registration

NeuronMarker



Proofreading of neuron detector