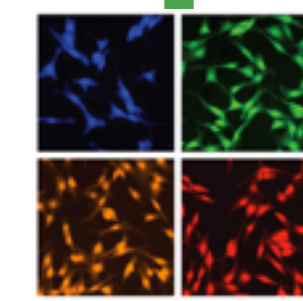
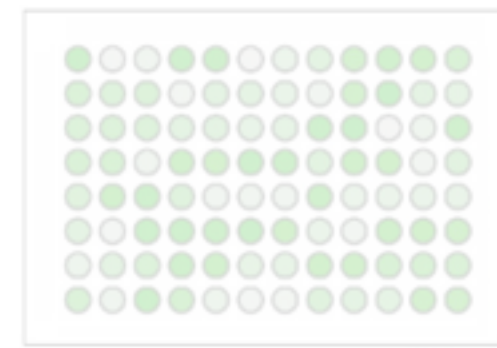
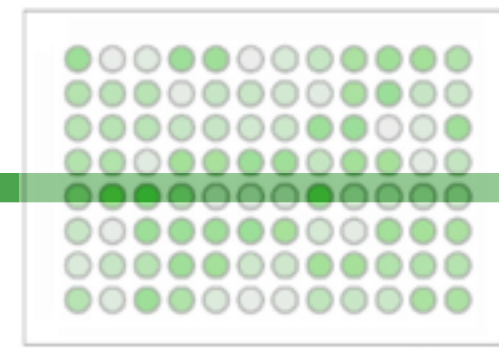
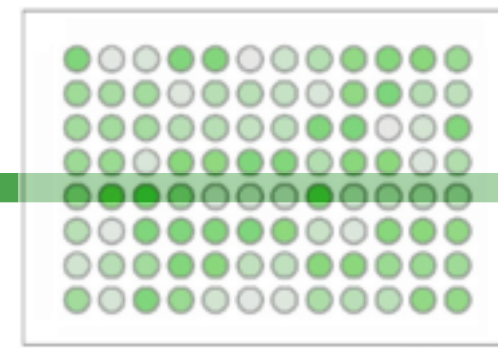
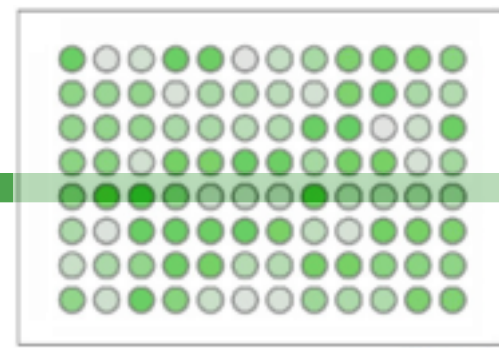
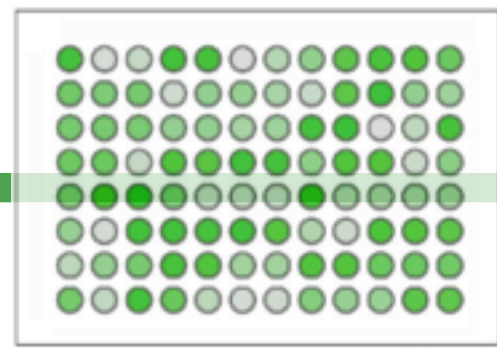
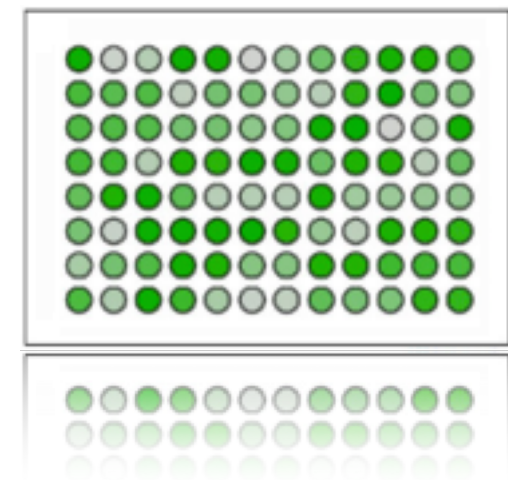
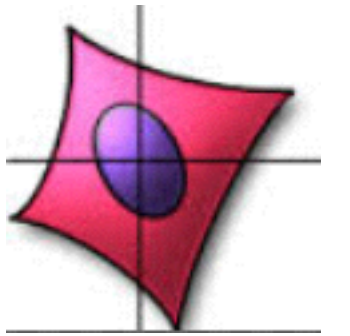
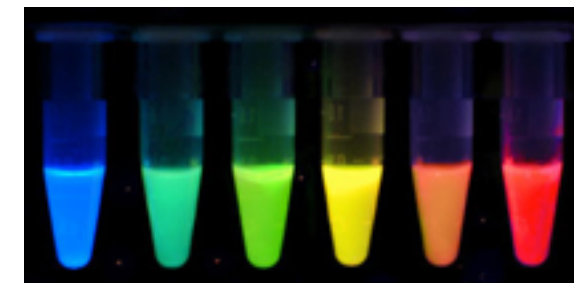
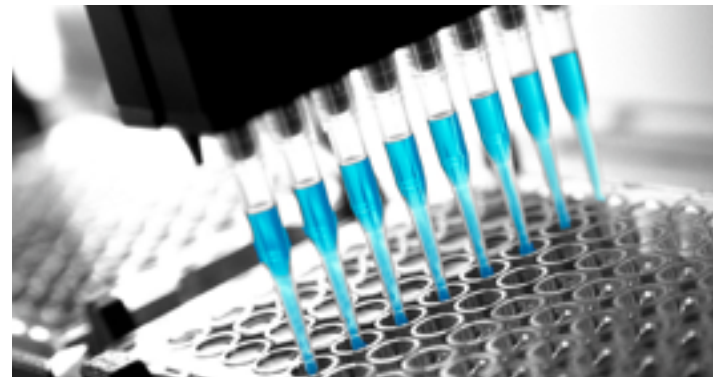


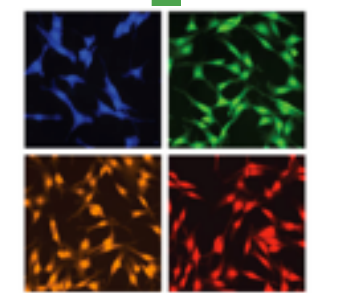
Michel Nederlof, Damir Sudar, Elmar Bucher, Mark Dane, Adam Margolin, Laura Heiser
Oregon Health Science University, Quantitative Imaging Systems



Lab Actions



Images



Features



Input

Selected files to steer equipment

Programmatic interface layer (Django & C++)

Database

Selectable "Settings" Files in Database

"Reference" Files in Database

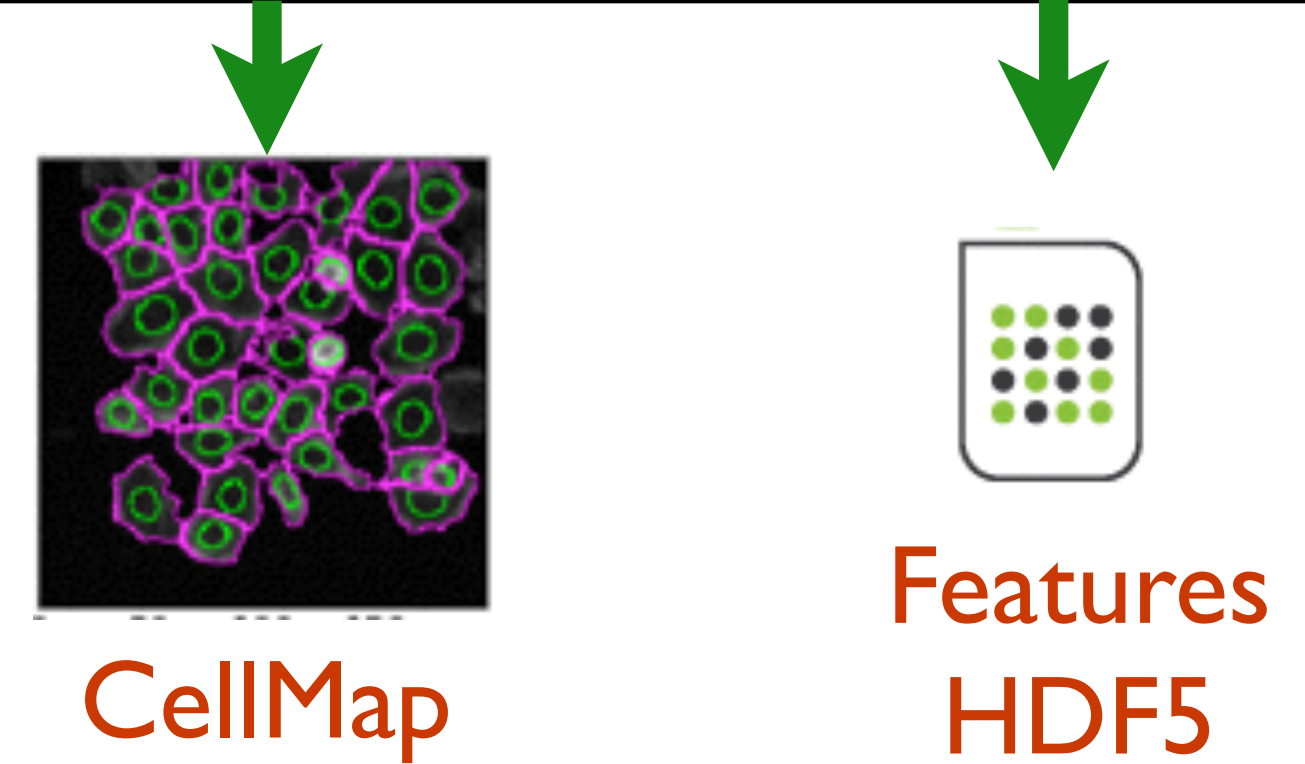
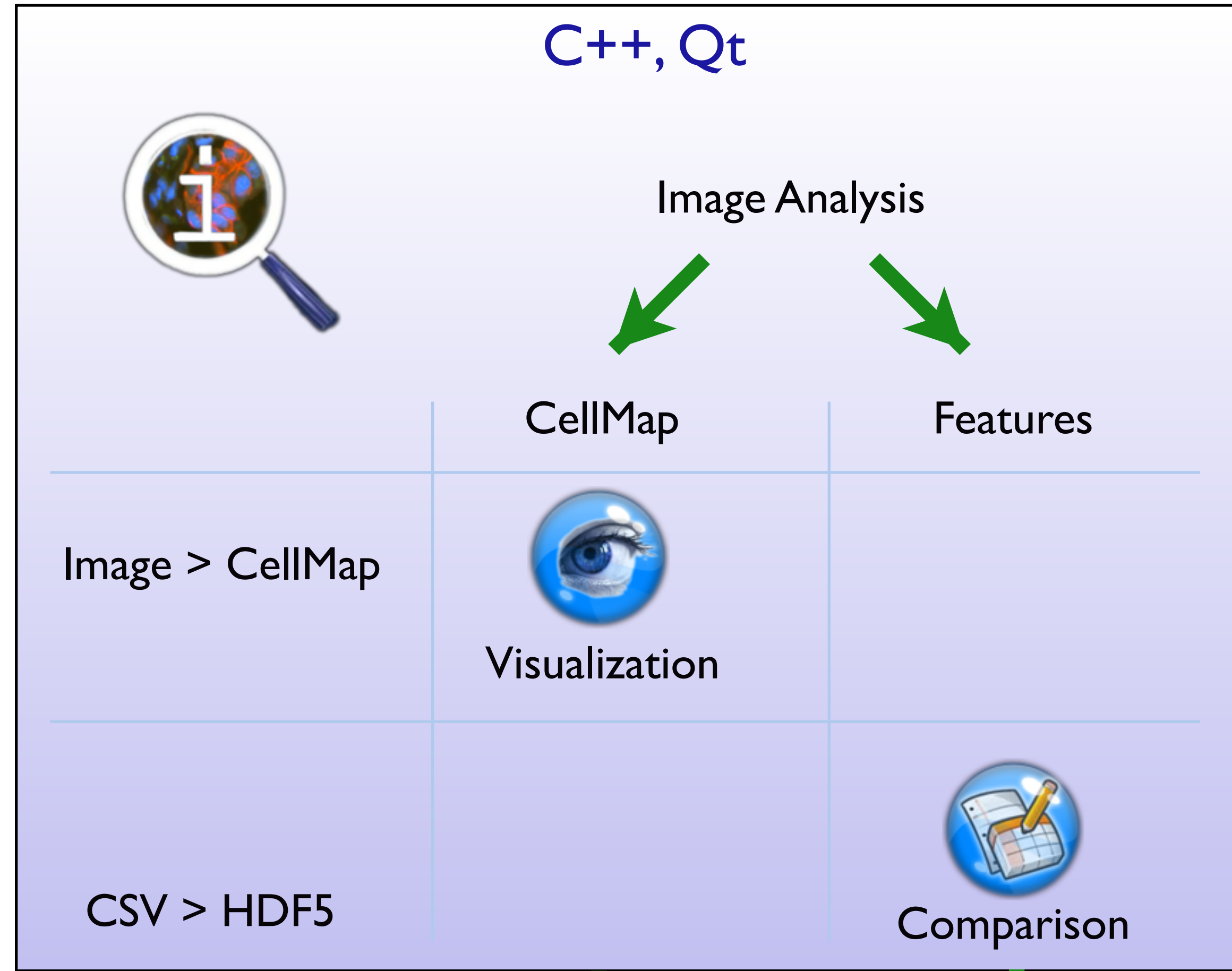
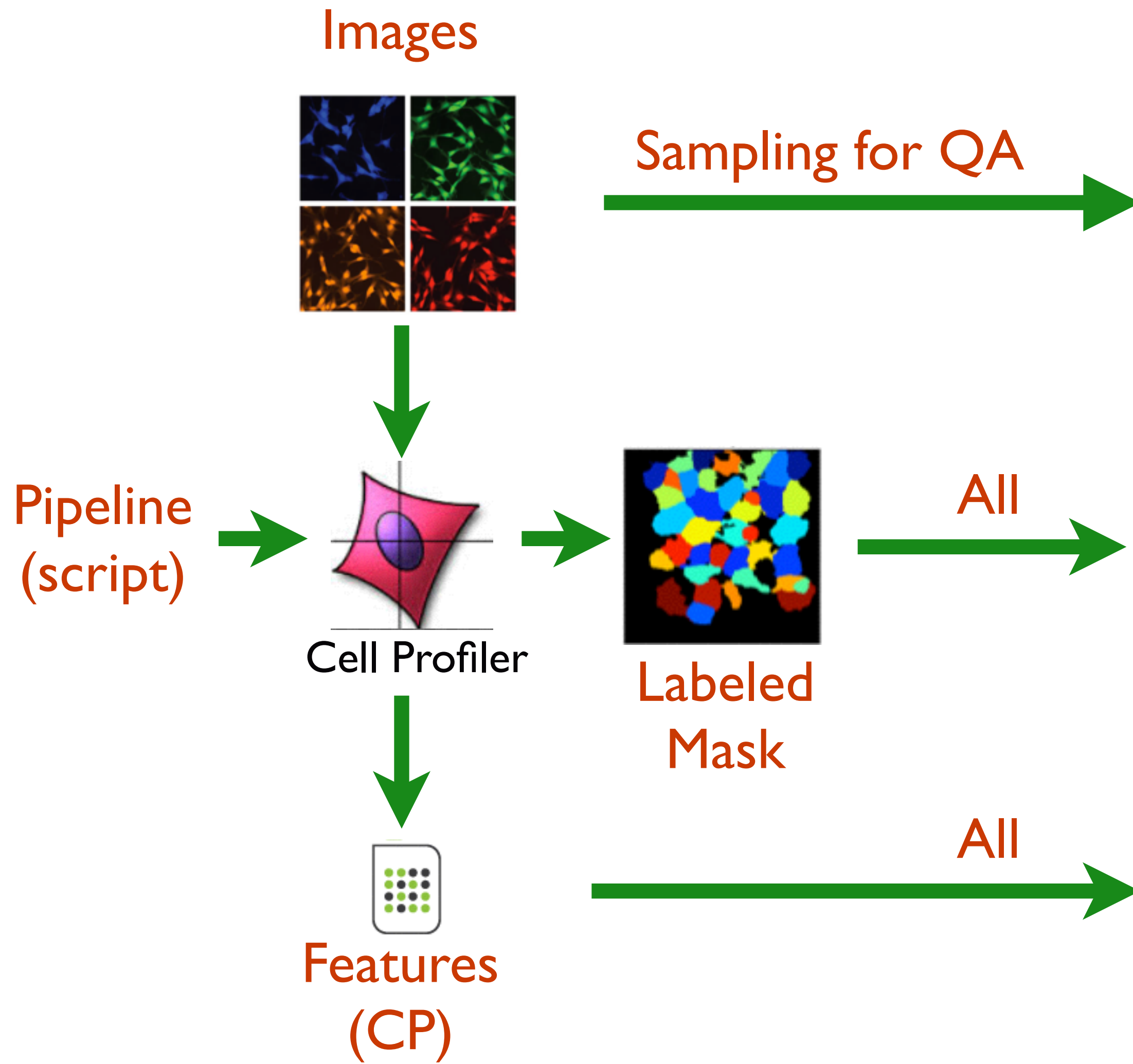
"Super User" Created



Image & Features Database

Main Workflow

QA , Visualization, Process Control

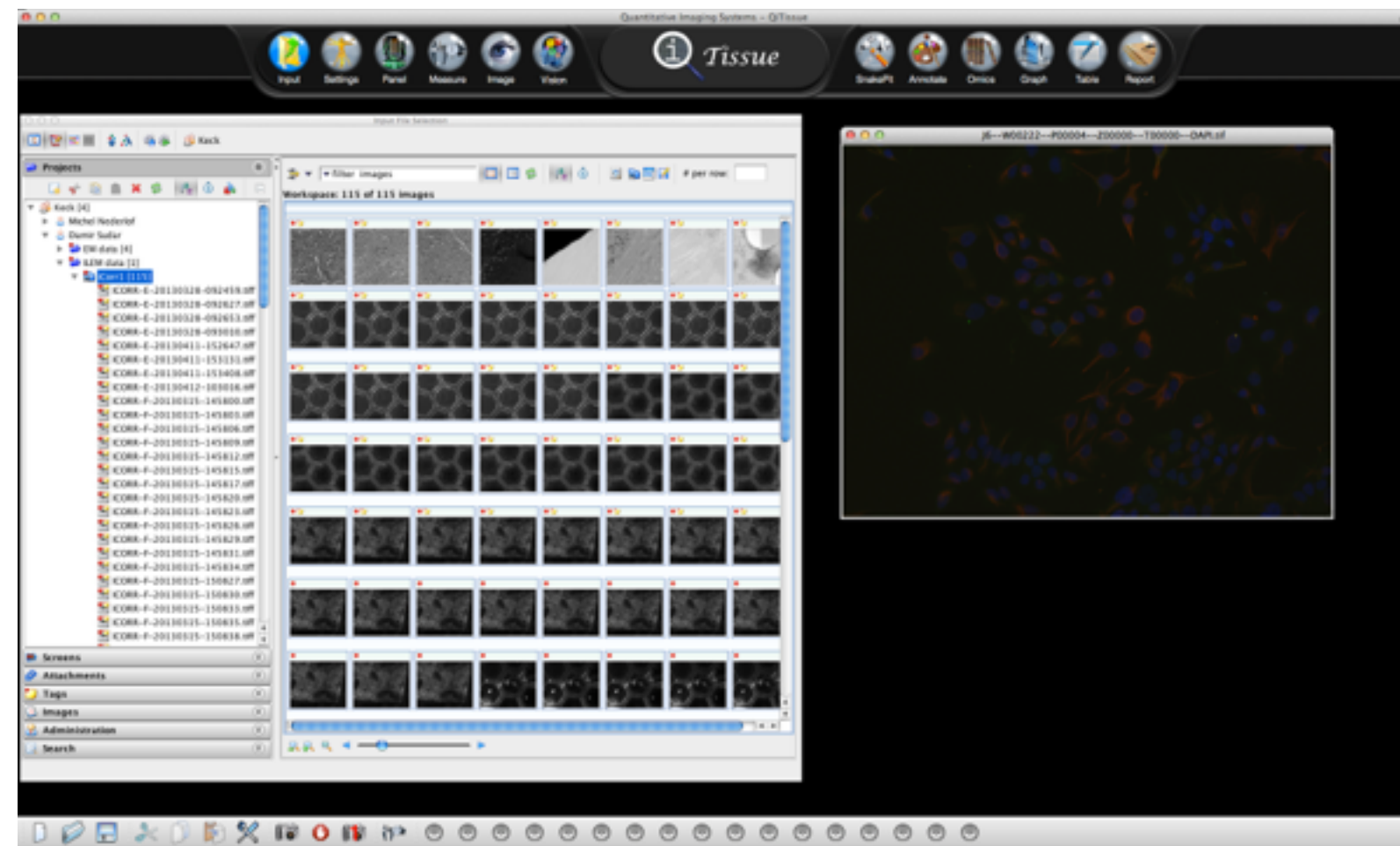
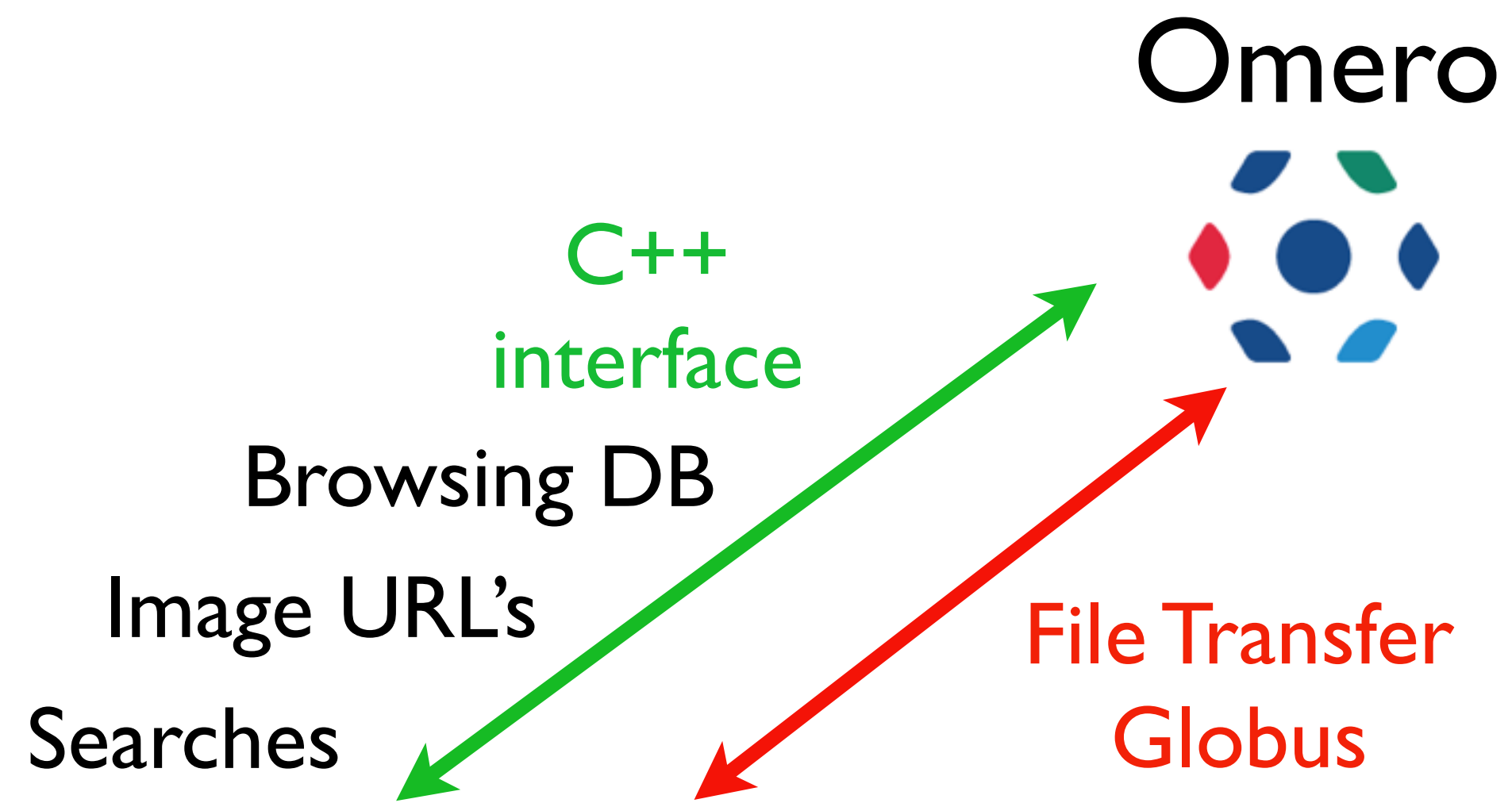


Integration Issues:

- No binary libraries to link with C++
- Supposed to build from sources, but:
 - Requires tool stacks - right versions, on 3 platforms
 - Build issues/bugs are hard to resolve - requires diving into code
 - Windows DLL does not build, had to create static lib
- Using a lib in C++, or is it a development project

C++ Flavored Future:

- High Speed
- Optimal Memory Management
- Easy to use Qt Object
- Shrink wrapped for Qt builds on Win/OSX/Linux
- Cluster Savvy



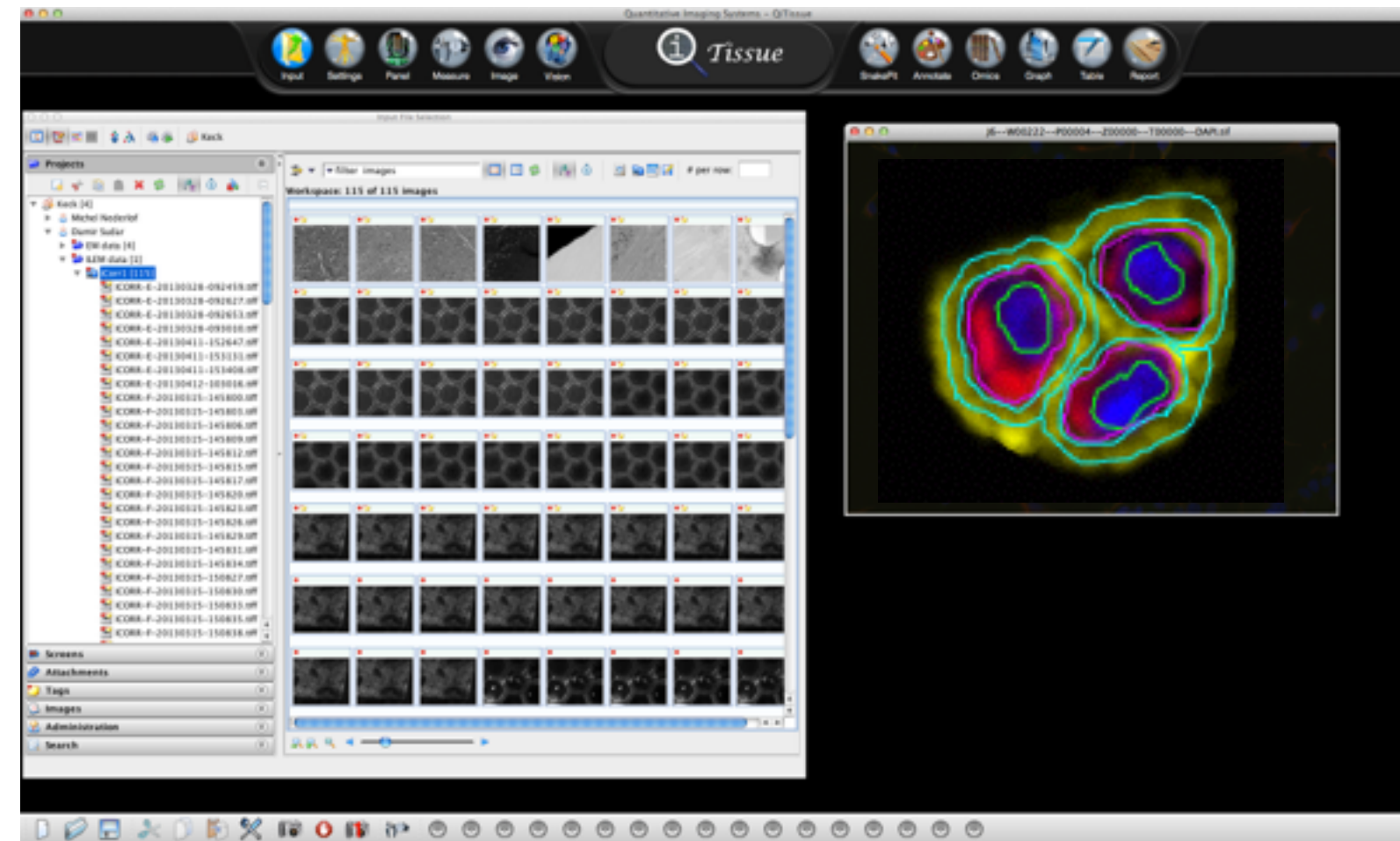
Connectivity: Images

Omero



Segmentation:
Cell Maps
Cellular Constituents

Qi & CellH5
format



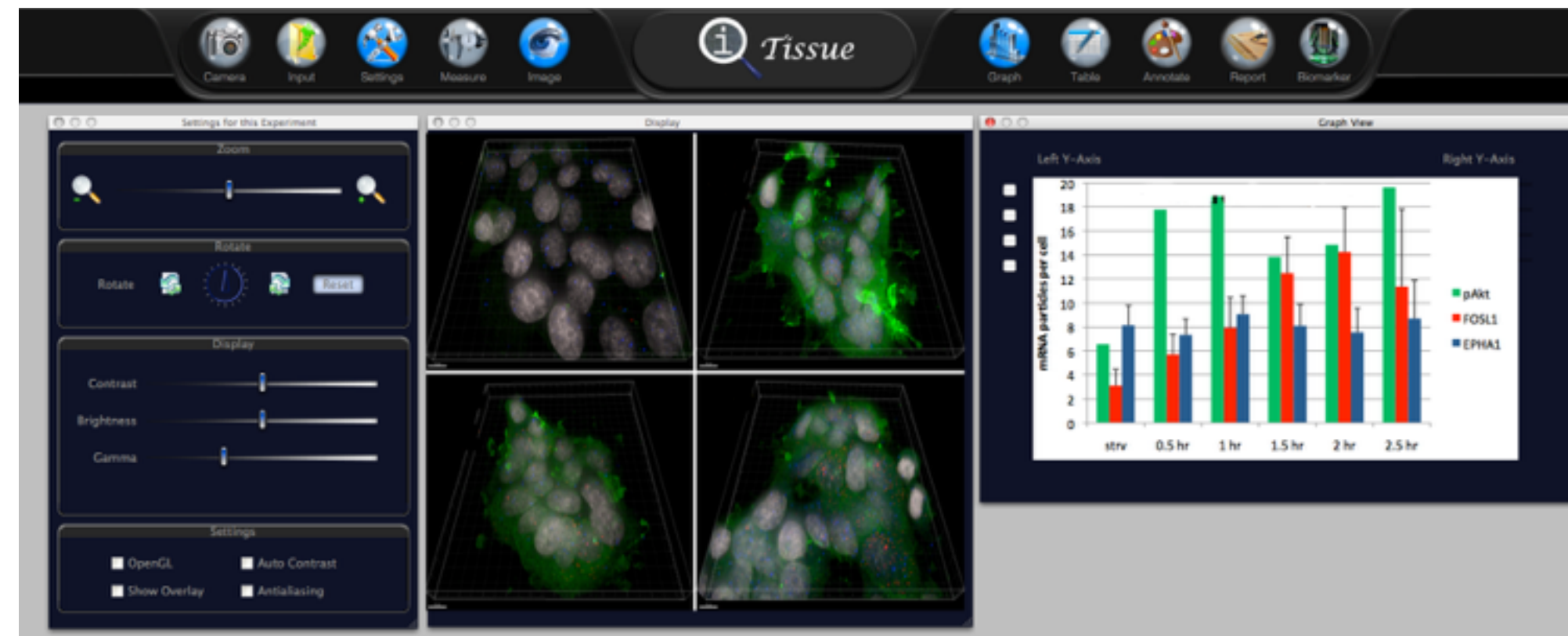
Connectivity: Cell Maps

Omero



CellH5
format

Analysis:
Features
Searches



Connectivity: Analysis