Use of computational methods for Image Visualization and Analysis via Kepler and imageJ

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August 30, 2012

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Research Background

Integrate Kepler Scientific Workflow Systems with ImageJ scripts to automate microscopy analysis for Dr. Mary Vail's fluorescent images

Create and document usage of workflows for future use

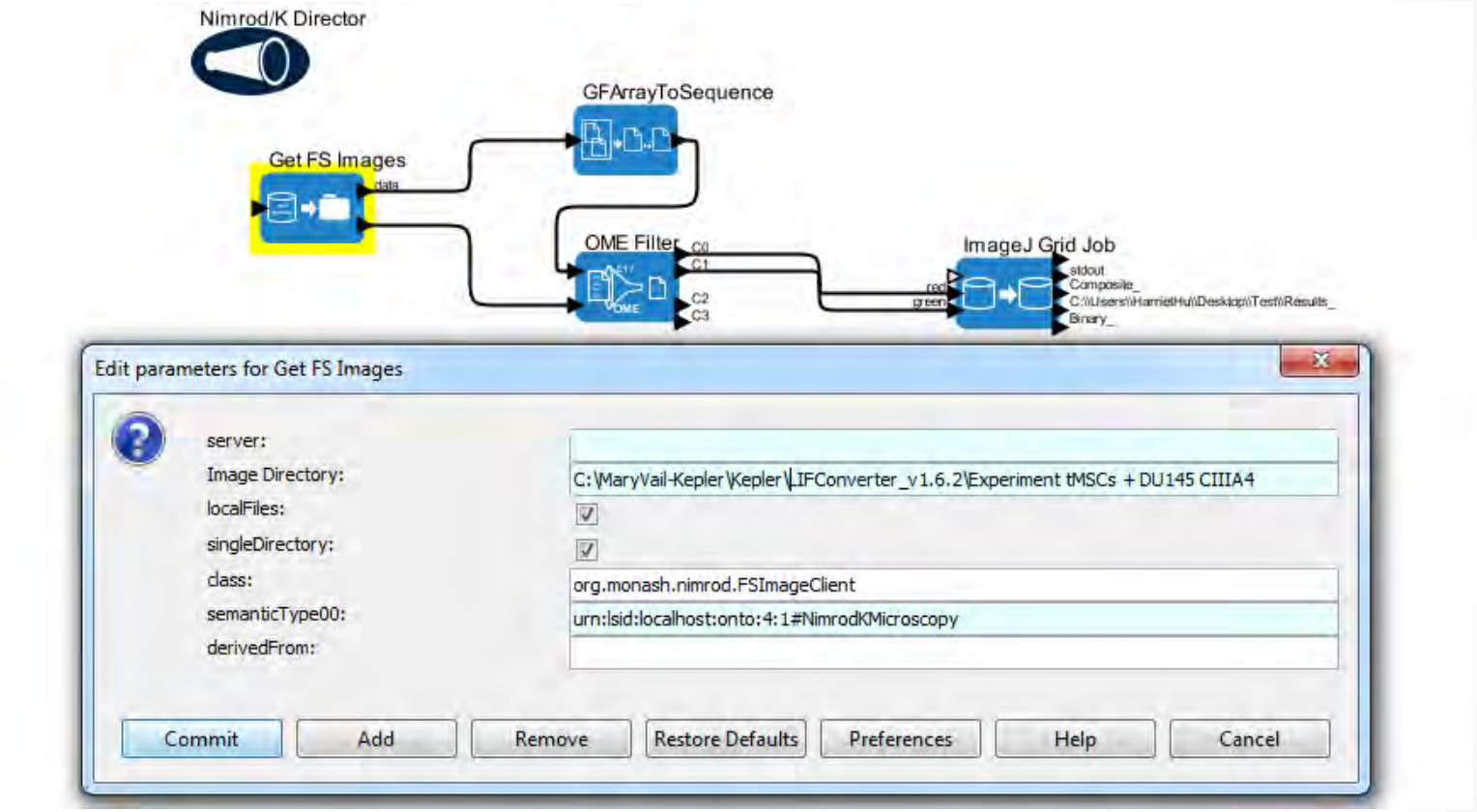
Progress

Complete individual analysis of independent channels prior; this analysis should be changeable per experiment

Received feedback on documentation, and will incorporate Dr. Vail's comments into work

Discussed with Slavisa what can be done about retaining original metadata into Kepler

Sample Workflow



Creates composite RGB images by filtering .tif images by channels, and includes ImageJ script for particle analysis in ImageJ GridJob

Final Week Goals

Update all workflows onto department computer, and contact Slavisa about how to incorporate metadata retrieval

Make final edits to Kepler documentation and meet up with Dr. Vail for a run-through of workflows

Celebratory end of PRIME hangout 8/29/12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CATERING

Many thanks to…

Monash University

- Dr. David Abramson
- Slavisa Garic
- Colin Enticott
- Dr. Mary Vail

UC San Diego

- Dr. Gabriele Wienhausen
- Dr. Peter Arzberger
- Dr. Ilkay Altintas
- Ms. Teri Simas

Eureka! Scholarship at University of California, San Diego
National Science Foundation (IOSE-0710726) through the PRIME program
PRIME at University of California, San Diego