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

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Progress

• Wrote a documentation guide on how to use Kepler and the current workflows that have been created for analyzing microscopy images

• Discussed further analysis that should be done to each channel of microscope images in order to determine final calculations for meaningful data

• Updated department computer with compiled workflows—works smoothly with .LIF files
Successes! ... And Difficulties

• Workflow is working on the department computer!
  • Had a lot of trouble with it previously because it lagged and didn’t have the most recent versions of necessary programs
  • Generated composite images just fine, along with the preliminary analysis on .cvs
  • Documentation means that people in the lab can use it

• Filename conflict has been a recurring issue
  • Need to discuss this more with Slavisa or Colin to see what can be done
  • Difficult to retain original filename; unsure if it can be derived from metadata
Tentative Plans

• Begin working on specific Imagej script // GridJob actors for analysis of specific channels

• Update documentation for current workflows, so that it can be used by lab members at the Biochemistry department

• Skype with Dr. Altintas back in UCSD about current progress
Clockwise: Drive to Marysville, Black Cockatoo, Koala, Gorgeous Clouds, Budgerigar bird, View from Keppel's Lookout 8/4/2012
Open Day with MURPA Booth

From left: Graham Doh, Liang Ding, Harriet Hu, Dr. David Abramson, Minh Huynh

Not pictured: Brian Becerra  8/5/2012
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