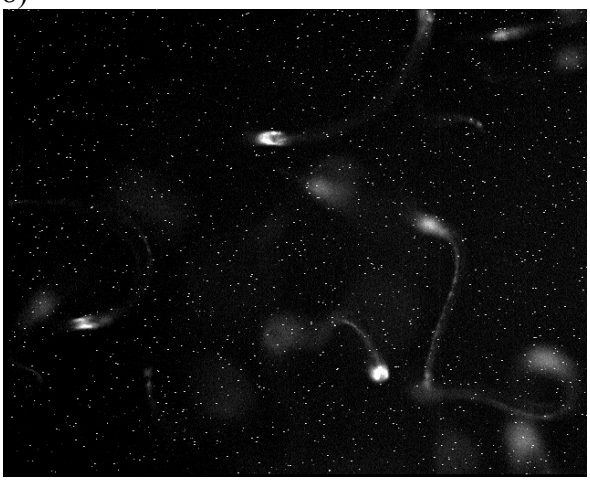
ISS and Human Research Project Office Highlights
April 1, 2011

ISS Research Project

Light Microscopy Module (LMM) Bio-1 operations are completed on ISS.

All operations for the LMM-Bio-1 Technical Demonstration were successfully completed on March 28, 2011 with the optimized imagining of the fluorescent c. elegans. The filter (cube) and camera sensitivity were optimized to capture science images. This demonstrated a new capability for LMM to perform biological studies. Fluorescent "tagging" is a common technique used to isolate certain genes in the biological system being studied. Six samples were tested. Six additional samples (LMM-Bio-2) including c. elegans, planaria, and cell cultures are manifested on ULF-6. (POC: MAH/Ronald Sicker, (216) 433-6498)

The c. elegans understudy expresses a fluorescent gene which provides an excellent means for monitoring gene expression and protein localization. Processes Ground data shown above.



C. elegan raw flight data shown above.