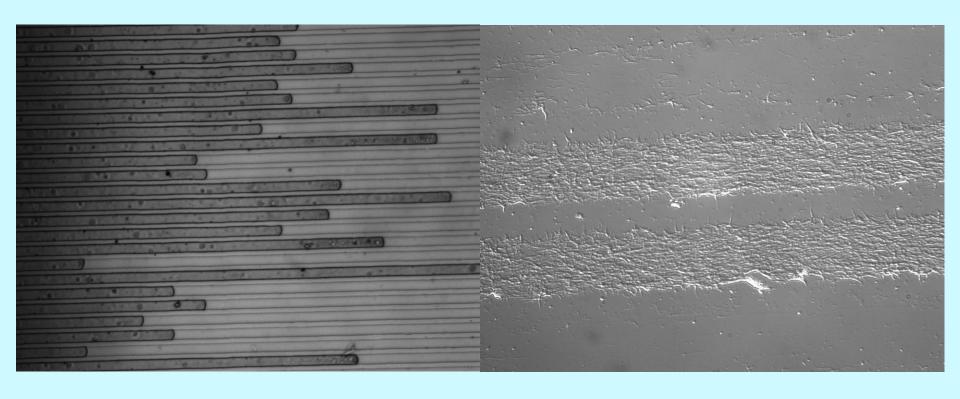
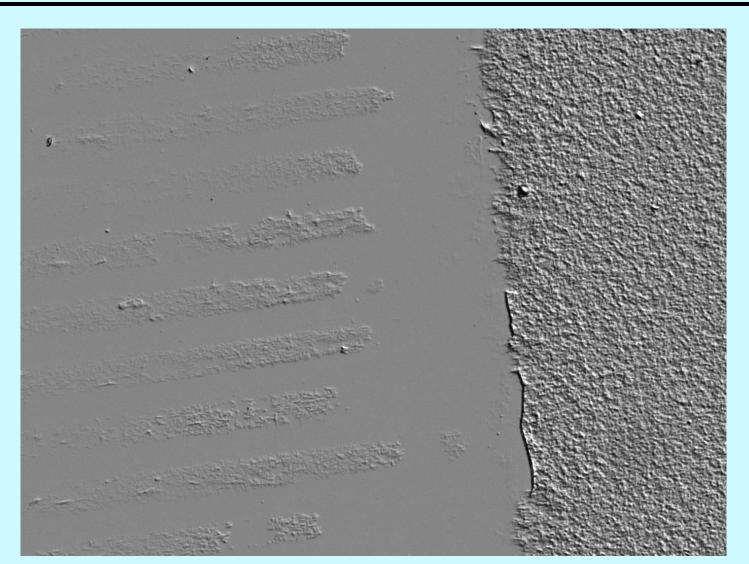
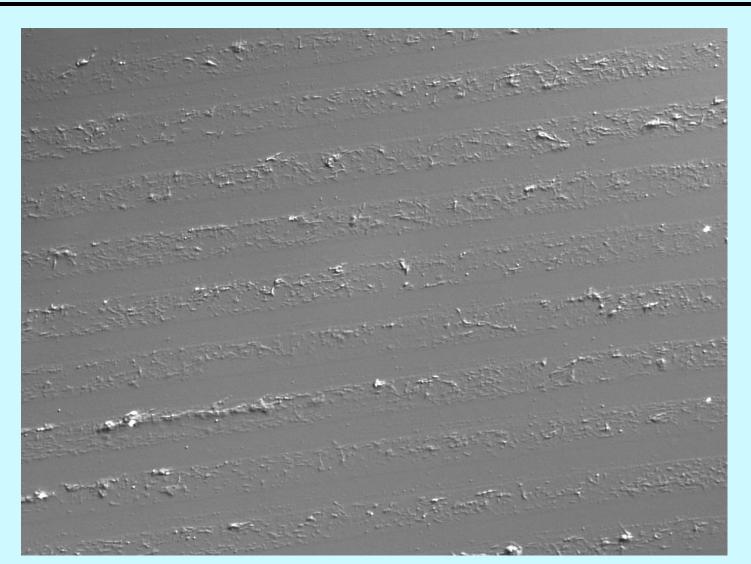
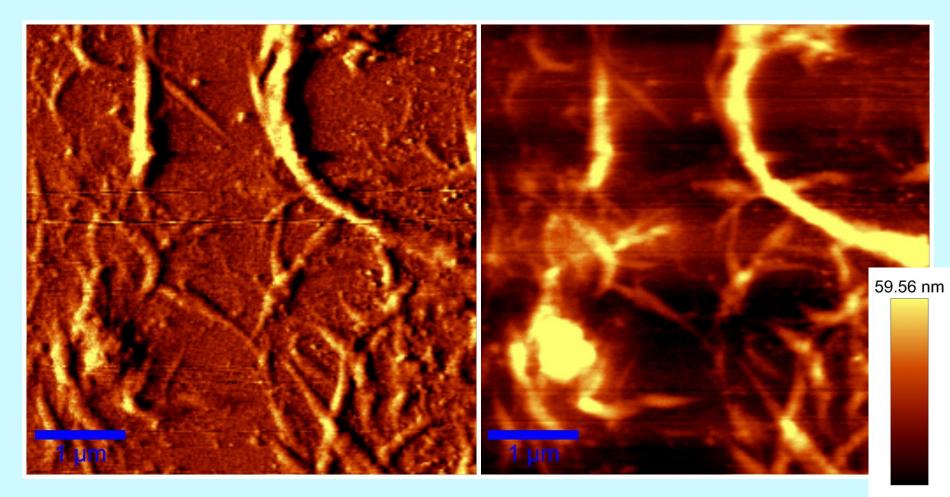
Joey's Status Update

Weekly Worm Meeting November 11th, 2006

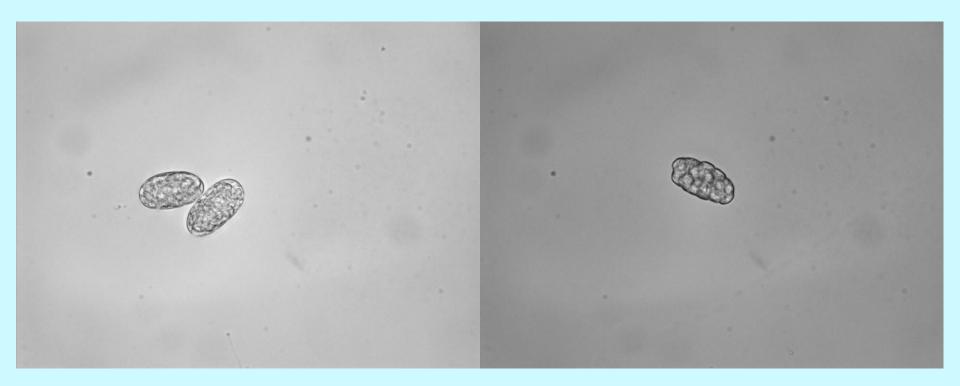


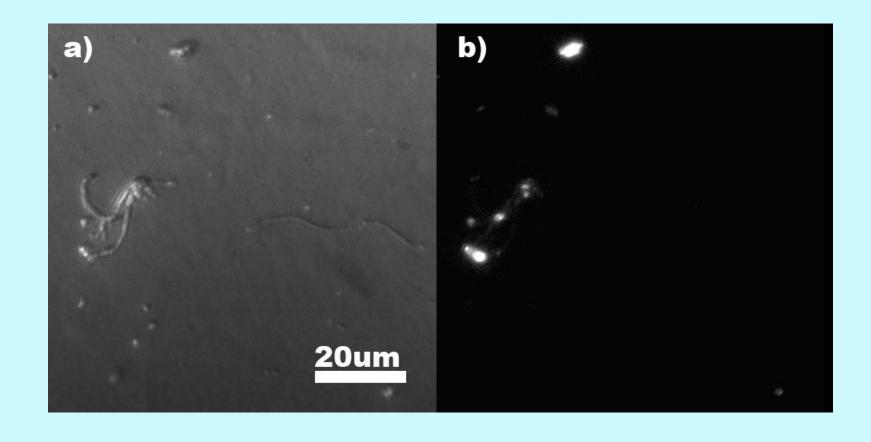






 Egg dissociation seems to be working, monitoring samples on microscope





- UNC-119 (unc-119::GFP) worked and we saw cell differentiation and GFP in neurons.
 - First expressed in neurons in embryos of 60 cells (comma stage)
- We are working on UIS-31 (mec-17::GFP)
 - No info on when expressed

- Timing of GFP expression and FACS
- For now, assume that we need to plate UIS-31 cells before sorting (improve signal)
 - Trypsin-EDTA or remove calcium?

Problems

 Current time from synchronized eggs to gravid worms is long

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- 15C = 6 days20C = 4 daysRT = shorter?
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Need to enrich, scanning is bad

Next Work

- Dissociate more UIS-31 eggs and plate on PLL control, uniform collagen, patterned collagen
- Use FACS to enrich and then plate again
 - Egg dissociation on WT for calibration
- Patch clamp, measure voltage gated channels and mechanosensitivity (options = hair, cantilever, AFM)
- Ca²⁺ for same as above

Review

- Microfluidic Patterning of Collagen
 - Capillary filling works, need to redesign channels for pressure driven flow
- Microcontact Printing Collagen
 - No success yet, printing monomers works
- Primary TRN Cell Culture
 - Beginning to work, need to start enrichment
- Real-Time Automatic Worm Tracking
 - Same as last time