



# Undergraduate Research Symposium

## Biology and Mathematics

### Friday, June 27, 2008



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~ 12:00 PM – 12:30 PM  
~ 12:30 PM – 2:00 PM

Lunch in ISC Lounge (between ISC and Newton Hall)  
Undergraduate Presentations (Freshman Biology Lab)

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### Schedule of talks:

Kevin Militello Laboratory

**Tony King** – “Development of a complementation assay to study a DNA methylase in *Trypanosoma brucei*”

**Sangeeta Jayakar** – “Identification of methylated DNA sequences in *Trypanosoma brucei*”

Gregg Hartvigsen/Chris Leary Laboratory

**Jerry Verhause** and **Niki Sprentall** – “Quantifying structure of stream paths”

**Kevin Aagaard** – “The effect of forest growth on fractal dimension and lacunarity”

**Hannah Miller** – “Analysis of bacterial growth using differential equations”

**Dennis Ruppe** – “Fractal and percolation in forests”

**Scott Vrooman** – “Fractal walks in the *E. coli* genome”

Abbi Cox Laboratory

**Tom Gallagher** – “Using the *C. elegans* intestine as a model system for studying tubulogenesis.”

**Lindsay Borlgum** and **Sambridhi Shrestha** – “Twist and count: what steps of intestinal development are regulated by tropomodulin?”

**Greg White** – “It's not easy being green: using GFP to visualize tropomodulin localization.”

**Vincent Cannataro** and **Laura Cole** – “ROCK and rho: how does tropomodulin regulate lumen diameter?”

Sid Bosch Laboratory

**Chris Ryczek** – “Nutrient enrichment in Conesus Lake”

**Brad Cohen** – “Bacteria symbiosis in seastar larvae”

Jenny Apple Laboratory

**Dillon Meier** – “Spatial patterns of *Formica* ants in the Roemer Arboretum”

**Stephanie Paladini** – “Screening for *Wolbachia* in grasshoppers”

Robert Simon Laboratory

**Robert Maines** – “DCM gene in *E. coli*”

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“The year which has passed has not, indeed, been marked by any of those striking discoveries which at once revolutionize, so to speak, the department of science on which they bear.” Thomas Bell, President of the Linnean Society 1858, commenting at the end of the year which included papers by Darwin and Wallace on natural selection.