

## FALL FEST 2004 PROGRAM

---

### Biology

1. *Distribution of Tuna Eggs and Larvae in the Eastern Mediterranean Sea.* **Nilufer Rahmioglu '06** (sponsors Professors D. Robertson & I. Oray—Istanbul University)
2. *Dietary Analysis of the Mantled Howler Monkey.* **Brigham Whitman '05** (sponsor Professor D. Robertson and the Institute for Tropical Ecology and Conservation)
3. *Targeted Mutation of Drosophila PLC-gamma.* **Nicole Mills '05** (sponsor Professor J. Thackeray)
4. *Knocking Out a Potential Tyrosine Phosphorylation Site in Drosophila PLC-y.* **Nicole Mills '05** (sponsor Professor J. Thackeray)

---

### BioChemistry

5. *Attachment Mechanisms of Borrelia Burgdorferi as Mediated by BBK32.* **Kimberly LeBlanc '05** (sponsor Professor D. Thurlow)
6. *Molecular Dynamics Simulations on Mutant Variants of the Protein Toxin Ricin in the Absence and Presence of Human Substrate Analogs* **Katherine Hynes '05** (sponsor Professor D. Nelson)
7. *Molecular Dynamics Simulations of Complexes Between Wild-Type and Mutant Anthrax Protective Antigen Variants and a Model Anthrax Toxin Receptor.* **Linsey Stiles '05** (sponsor Professor D. Nelson)

---

### Chemistry

8. *Stereochemistry of the "Forbidden" Concerted 1,2 Carbanionic Shift.* **Manuel Paniagua '05** (sponsor Professor K. Erickson)
9. *Synthesis and Study of Magnetic Chains and Ladders.* **Brian Landry '05** (sponsor Professor M. Turnbull)
10. *Synthesis and Characterization of Silicon Niobium Oxide Mesopores via X-ray Diffraction and BET.* **Eric Steele '07** (sponsor Professor L. Smith)

---

### Foreign Languages & Literatures

11. *Design Aesthetics in Urban Japan: Re-interpreting Tradition.* **Michael Fullerton '05** (sponsor Professor A. Valentine)

---

### Geography

12. *Coping with Drought in a Humid Climate: The Case of Central Massachusetts.* **Troy Hill '06, Rebecca Alper '06, and Zohar Tobi '07** (sponsor Professor C. Polsky)
13. *The State of Land Use Change Modeling as Measured by Quantitative Validation.* **Christopher D. Lippitt '05** (sponsor Professor R. Gil Pontius)

14. *Using Remote Sensing Data and techniques.* **Ryan Frazier '06, Trevor Jones '05, Christopher Lippitt '05, Daniel Pomerleau, M.A. '05** (in collaboration with Anna Versluis, graduate student; sponsor Professor J. Rogan)

15. *Visualizing the Rate at which the Accuracy of Land Change Prediction Decays.* **Nicholas R. Malizia '05** (in collaboration with Anna Versluis, graduate student; sponsor Professor R. Gil Pontius)

16. *Globalization of Production: The Case of Video Game and Animation Industries.* **Ian Giddings '06** (sponsor Professor Y. Aoyama)

### **Government**

17. *Commuter Rail: Linking Boston and Worcester.* **Celia Spiro '05** (sponsor Professor S. Krefetz)

### **ISS Summer Research**

18. *Infant Mortality and Inequality: Cross National Research.* **Timothy Sweetser '07** (sponsor Professor R. Ross)

19. *Green Tenure: Landholders, NGO's and the State Defining Space Through Biodiversity and Conservation Measures in Madre de Dios, Peru.* **Timothy Currie '07** (sponsor Professor R. Ross)

### **Anton Fellowship Program**

*Director, Professor S. Krefetz*

20. *Comparative Perspectives on Local Governments: Cianorte, Brazil and Portsmouth, New Hampshire.* **Sarah Fineberg-Lombardi '05** (sponsors Professors K. Williams & S. Krefetz)

21. *Paintings of Diversity at Clark.* **Sarah Reardon '05** (sponsor Professor S. Walker)

### **Traina Scholar**

22. *Stress, Marriage, and Physiology: A Review of the Literature.* **Nichole Willy '05** (sponsor Professor J. Cordova)

### **Urban Development & Social Change summer Research Fellowships**

23. *An Inner-City Neighborhood on the Brink of Revitalization: The Green Island/Canal District in Worcester.* **Carly Coppola '06, Carilin Johnson '05, Jared Swerzenski '05, & Evan Wilson '06** (in collaboration with Sarah Loy, graduate student; sponsor Professor S. Krefetz)

24. *Resolving Conflicts and Facilitating Cooperation: Lessons Learned from an Internship with Worcester City Councilor Barbara Haller.* **Kara Younkin '05** (sponsor Professor S. Krefetz)