



# FALL FEST 2010

November 3  
2 - 4 p.m.

Goddard Library,  
Academic Commons  
&  
2nd Floor



**Faculty Coordinator:** Professor James Cordova,  
Psychology Department, x7268

**Staff Coordinator:** Karen Wilber, Psychology, x7538

*Sponsored by  
The Frances L. Hiatt School of Psychology &  
Dean of the College*





## **FALL FEST**

*Please join us as our own Clark students showcase the fruits of their labor.*

*From 2:00 - 4:00 p.m. students will display their research findings through posters and electronic media (audio, video and Power-Point) presentations.*

*This event celebrates the research and creative work Clark Undergraduate students produce under the support and mentoring of the University's distinguished faculty.*

*The presentations are found on both the 1st and 2nd floors of the Goddard Library.*

*Please enjoy some light refreshments found upstairs on the 2nd floor and thank you for coming!*



## Biochemistry and Molecular Biology

1. *Cloning Single-Stranded DNA Protein For in vitro Replisome Reconstruction.* **Craig Jeskey '11** (in collaboration with: Jamie Towle, graduate student; sponsor: Professor Donald Crampton)
2. *Post-Transcriptional Gene Regulation of Marine Diatoms.* **Priyanka Kapur '11** (sponsor: Professor Deborah Robertson)
3. *Elucidation of Amyloid-beta Protein Folding and Self-assembly by Studies of Double Mutants.* **Hakeem Hindi '11** (sponsor: Professor Noel Lazo)
4. *Inhibition of amyloid-beta aggregation with small molecules: mechanistic studies.* **Sang A. Kim '11** (in collaboration with: Kevin Robbins, graduate student; sponsor: Professor Noel Lazo)
5. *Designing Specific Substrates and Inhibitors of Lysyl Oxidase.* **Laura Hedden '11** (sponsor: Professor Frederick Greenaway)
6. *Expression of Lysyl Oxidase in E. coli.* **Jon Imeraj '11 and Maria Luisa Sandoval '11** (sponsor: Professor Frederick Greenaway)

## Biology

7. *Alveolar Macrophage Activation in a Mouse Model for Hermansky Pudlak Syndrome.* **Margo Sheck '11** (sponsor: Professor Timothy Lyerla)
8. *Screening for Genetic Interactions with Drosophila p53 using RNA Interference.* **Marc Benoit '12** (sponsor: Professor Justin Thackeray)
9. *RNAi of the Kif1 Gene in Dictyostelium Discoideum.* **David Grimaldi '11** (sponsor: Professor Denis Larochelle)
10. *Cytogenetic Analysis of the TSA58 Transgene.* **Eileen Daley '11 & Toby Maak '12** (sponsor: Professor Timothy Lyerla)
11. *Construction of an eGFP reporter plasmid for monitoring in vivo transcription in the marine diatom Thalassiosira pseudonana.* **Dylan Scott '11 and Rishi Aryal '10** (sponsor: Professor Deborah Robertson)
12. *Experience Induced Changes in Sensitivity to Sucralose.* **Alexa Navasero '11** (sponsor: Professor Linda Kennedy)



## **\*\*Clark Voices: 2nd Floor, Goddard Library, Room 203A\*\***

*Tell your story. Modeled after National Public Radio's Story Corps. Project, "Clark Voices" is Clark University's oral history podcast about academic life at Clark. Record your story about a favorite class, professor, team project, study abroad experience, research study or any other academic area. Record your story alone or with a friend.*

*Then watch as your story becomes part of a podcast on the University's Clark Voices website.*

<http://clarkvoices.clarku.edu/>



### Steinbrecher Fellows

42. *Promoting Breastfeeding Among Low-Income/Uninsured Mothers.* **Hannah Berry '12** (sponsor: Professor Deborah Merrill)

43. *Working with a Community Development Organization in Ecuador: Lessons Taught and Learned.* **Jenni Adams '12** (sponsor: Professor Sharon P. Krefetz)

### Theodore Barth Foundation Internship Award

Thanks to the generosity of the Theodore Barth Foundation, Career Services is able to offer Clark undergraduate students a \$2500 stipend (6 total awards) to support unpaid, summer internships in the nonprofit sector.

This funded internship opportunity is open to Clark undergraduate sophomores and juniors who plan to complete an unpaid summer internship within a non-profit organization.

44. *Youth and Religion in Development: Quito, Ecuador.* **Maggie Federici '12** (sponsor: Career Services)

45. *Worcester Tree Initiative Barth Summer Internship.* **Maggie Small '11** (sponsor: Career Services; Environmental Science)

46. *Summer Internship at PEAR (Program in Education, Afterschool, and Resiliency).* **James Pooley '11** (sponsor: Career Services)

47. *Barefoot College.* **Laura Hansen '12** (sponsor: Career Services)

48. *Summer Internship at Suderbyn Ecovillage.* **Miranda Gerzon '11** (sponsor: Career Services; International Development & Social Change)

### Urban Development and Social Change

49. *Homelessness Prevention and Remediation with the Central Massachusetts Housing Alliance.* **Matthew Furman '13** (department sponsor: Lois and Robert Green UDSC Summer 2010 Internship; faculty sponsor: Professor Sharon P. Krefetz)

### Biology (cont'd)

13. *Regulation of Glutamine Synthetase by External Nitrogen Sources in Marine Diatoms.* **Jessica Alexander '11** (sponsor: Professor Deborah Robertson)

14. *Knockout of the Rad4 Gene in Dictyostelium discoideum.* **Jason Lui '11** (sponsor: Professor Denis Larochelle)

15. *Determination of Isosweet Concentrations of Acesulfame-K.* **Miranda Valerio '11 and Elizabeth Rosen '11** (sponsor: Professor Linda Kennedy)

16. *Automated Fungal DNA Sequence Comparison.* **Anders Ohman '10, Dylan Glotzer '11 and Darcy Young '11** (in collaboration with: Mitchell Nuhn, graduate student; sponsor: Professor David Hibbett)

17. *Gene sequencing of Glutamine synthetase II I Red algae.* **Brian McEnaney '11** (sponsor: Professor Deborah Robertson)

18. *Characterization of HPS Alveolar Macrophages in Mice.* **Melanie Rasmus '12** (sponsor: Professor Timothy Lyerla)

19. *The Effect of Invasive Parasite A. taiwanensis on the Invasive Mosquito O. japonicus.* **Julie Erthal '11** (in collaboration with: John Soghigian, graduate student; sponsor: Professor Todd Livdahl)

20. *Habitat Competition Study between Aedes albopictus and Aedes aegypti.* **Nicole Paradis '11** (in collaboration with: John Soghigian, graduate student; sponsor: Professor Timothy Lyerla)

21. *Comparison of Living Standards of Keshan Disease Patients, Kaschin-Beck Disease Patients, and Healthy People.* **Yun Ling '13** (sponsor: Professor David Hibbett)

### Carlson School of Chemistry and Biochemistry

22. *Synthesis, Structure, and Magnetic Properties of Pyrazine-Copper Halide Ladders and Bi Bridged Chains.* **Stephanie Korunow '12** (sponsor: Professor Mark Turnbull)

23. *Copper-Pyrazine Linear Complexes—The Effect of Electron Density on Magnetic Exchange.* **Veli Selmani '12** (sponsor: Professor Mark Turnbull)

### Carlson School of Chemistry and Biochemistry (cont'd)

24. *Synthesis of a Family of 1,6-bisphenyl-1,3,4,6-hexanetetrone Derivatives.* **Luke Nye '11** (sponsor: Professor Mark Turnbull)

25. *Ion transport through polymer matrices: towards more efficient rechargeable lithium batteries.* **Abhijit Srungavarapu '12** (sponsor: Professor Sergio Granados-Focil)

26. *Iodide conducting polysiloxanes for dye sensitized solar cells.* **Christopher Quan '12** (sponsor: Professor Sergio Granados-Focil)

### Computer Science

27. *Federated Social Web.* **Ian Denhardt '10 and Sean Corbett '11** (sponsor: Professor Fred Green)

### Geography

28. *Harvest-induced elevation of coarse and fine woody debris imposes a legacy of carbon emissions: Comparison to pre-harvest and undisturbed forest.* **Angela Marshall '11** (in collaboration with: Melanie Vanderhoof, graduate student; sponsor: Professor Christopher A. Williams)

### HERO

29. *Making Research "Kid Friendly": writing a science based story-book.* **Abigail Kaminski '11** (sponsor: Professor Colin Polsky)

30. *How We Feel When We're not Mowing the Lawn: An ethnographic study of turfgrass, flowerbeds, and conflict in the north shore of Boston.* **Lillian Denhardt '11** (in collaboration with: Edmund Harris, graduate student; sponsor: Professor Deborah Martin)

### International Development, Community, and

#### Environment (IDCE)

31. *The Responsibility of Shareholders in Bancos Compartamos.* **Christian Ludwell '10** (sponsor: Professor Jude Fernando)

### International Studies Stream

32. *Water Crisis in Beijing, China.* **Jessica Chung '12** (sponsor: Professor Srinu Sitaraman)

### Mosakowski Institute

33. *People's World Peace Project.* **Katy Cleminson '12** (sponsor: Professor James Gomes)

### Physics

34. *Systematic Zinc Doping of Cu(1-x)Zn(x)(3,5-diClpy) 2C12 AFM Chains.* **Brian Koopman '12** (sponsor: Professor Chris Landee)

35. *Instrumentation improvements to Pulsed Field Laboratory.* **Stephen Diehl '12** (in collaboration with: Andy Coniglio, graduate student; sponsor: Professor Chuck Agosta)

36. *Electronics Makeover of Mini-Pulse Lab.* **Christopher Conroy '13** (in collaboration with: Andy Coniglio, graduate student; sponsor: Professor Charles C. Agosta)

37. *Information theory and its applications in Biology.* **Sean Clark '12 and Patrick Tucker '12** (sponsor: Professor Ranjan Mukhopadhyay)

38. *Small Radio Telescope.* **Jennifer Gaines '12** (sponsor: Professor Charles C. Agosta)

### Political Science

39. *Marriage Equality in California.* **William Adams '11** (sponsor: Professor Kristen Williams)

40. *Central Banking Independence and the Onset of Civil Conflicts.* **Minh Mai '11** (in collaboration with: Angela Nichols, graduate student; sponsor: Professor John Ishiyama)

### Psychology

41. *Whom Should I Blame: Discursive Construction of Agency in the Coming-out Stories of Chinese Homosexuals.* **Yukun Li - Visiting Scholar from China** (sponsor: Professor Michael Bamberg)