

ECOLOGICAL GENOMICS RESEARCH FORUM

Tuesday, June 19, 2007

K-State Alumni Center, Lecture Room, 3rd Floor

Note to participants: If you park in the Alumni Parking Lot, please sign-in at the reception desk and provide your vehicle's license number to avoid being ticketed.

- 9:00-9:10 Welcome and introductions, Michael Herman and Loretta Johnson
- 9:10-9:30 "Pyrosequencing cDNA-AFLPS: A novel approach for ecological and evolutionary genomics," **Jeremy Marshall/Kun Yan Zhu.**
- 9:30-9:50 "Changes in nematode community composition in response to environmental cues: a genomic approach," K. Jones, J. Delp, J. Coolon, T. Todd, **Michael A. Herman.**
- 9:50-10:10 "Plant adaptation to elevated carbon dioxide: Using a lipidomic approach to identify alterations in lipid metabolism and signaling in *Arabidopsis thaliana*," **Richard Jeannotte/Ruth Welti.**
- 10:10-10:30 Break
- 10:30-10:50 "Integrative Genomics: Plant defense in competitive environments," **David Siemens**, Black Hills State University, Spearfish, South Dakota.
- 10:50-11:10 "Genomics Research at the Center for the Conservation of Biological Resources at Black Hills State University," **Shane K. Sarver**, Black Hills State Univ, Spearfish, South Dakota.
- 11:10-11:30 "Molecular methods provide new insights into avian behavioral ecology," **Brett K. Sandercock**, A. Casey, A. Gregory, J. Nooker, T. Prebyl, and S. Wisely.
- 11:30 Lunch at the Alumni Center
- Note to ECOGEN Graduate and Undergraduate Students and Post Docs:**
Tables will be reserved so that you may meet with the Ecogen External Advisory Board members during lunch. Please plan to sit at the table reserved for you.
- 1:00-1:20 "Clinal variation in freezing tolerance in *Arabidopsis thaliana*," **Ying Zhen/Mark Ungerer**
- 1:20-1:40 "Development, transferability, and application of microsatellite markers in /Phlox/ (Polemoniaceae)," Shannon D. Fehlberg, Kristen A. Ford, Mark C. Ungerer and **Carolyn J. Ferguson**
- 1:40-2:00 "Transcriptional response to environmental stressors in the aquatic midge (*Chironomus tentans*)," **Kun Yan Zhu**
- 2:00-2:20 "Expressions of Aphid virulence - physiological, behavioral and genetic," **C. Michael Smith**
- 2:20-2:40 "Utilizing genomic tools to study caste-specific gene expression of the termite, *Reticulitermes flavipes*," **Matthew Stellar/Srini Kambhampati**
- 2:40-3:00 Break
- 3:00-3:20 "Using *Arabidopsis* ATH1 microarrays to understand the function of fungal root endophytes," **Keerthi Mandyam**, Stacie A. Kageyama, Ari Jumpponen
- 3:20-3:40 "Environmental and ecological controls on gene expression of root processes in prairie plants," G.Surabhi, K.Clowers, D.DeLaughter, S.Kumar, N.Alam, **Loretta Johnson & J. Shah**
- 3:40-4:00 "Gene expression and phytohormone responses to drought and pathogen stress in *Andropogon gerardii*," **Erin Frank/Karen Garrett**
- 4:00 Closing remarks
- 4:15-6:00 Reception, Johnson North Terrace
(Cash bar available)

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K-State Targeted Excellence***



Thank you for attending and participating in the 2007 Ecological Genomics Research Forum!