

# New Insights From Arthropod Genomes

April 10 – 13, 2008  
Kansas City

SECOND ANNUAL  
**Arthropod Genomics**  
SYMPOSIUM

## Schedule

### THURSDAY EVENING, April 10, 2008

- 7:00–9:00 pm **Workshop: Community Contributions to Genome Annotation**, Christine Elsik, Christopher Childers, Darren Hagen, Truman B. *Light dinner for workshop registrants available prior to workshop, 6:00–6:45 pm, Truman A/B*
- 7:30–11:00 pm Welcome Reception and Registration, Barney Allis Lobby

### FRIDAY, April 11, 2008

- 7:30–10:00 am Registration, Imperial Ballroom
- 7:30–8:30 Poster set-up, Colonial Ballroom (Posters may also be placed on display during lunch)
- 7:30–8:30 Breakfast, Imperial Ballroom
- 8:30 a.m. General Session, Imperial Ballroom  
Session Chair: **Maureen J. Gorman**, Biochemistry, Kansas State University
- 8:30–8:45 Symposium Welcome: **Susan J. Brown**, Director, Center for Genomic Studies on Arthropods Affecting Human, Animal and Plant Health, Kansas State University
- 8:45–9:30 **Judy Willis**, University of Georgia, *Insect cuticular proteins: Annotation, proteomics, expression, evolution*
- 9:30–10:15 **Subbaratnam Muthukrishnan**, Kansas State University, *Functional genomics of insect chitin metabolism*
- 10:15–10:40 Break
- 10:40–11:25 **Jeff Stuart**, Purdue University, *Avirulence, sex determination, and a physical map of the genome of the Hessian fly*
- 11:25–11:45 Oral presentation by selected poster author: **Don Gilbert**, Indiana University, *Unlocated arthropod genes, and ways to find them*
- 12:00–1:00 Buffet Lunch served. Posters may be placed on display in the Colonial Ballroom.
- Session Chair: **Susan J. Brown**, Biology, Kansas State University
- 1:10–1:30 **Jeffrey L. Boore**, Genome Project Solutions, University of California at Berkeley, *Why arthropod genomics needs evolutionary analysis*
- 1:30–2:15 **Bruce R. Schatz**, University of Illinois at Urbana-Champaign, *BeeSpace: Interactive functional analysis for arthropod genome data*
- 2:15–3:05 Oral presentation by selected poster author: **Howard W. Fescemyer**, The Pennsylvania State University, *Characterizing the transcriptome of a nonmodel organism, the butterfly *Melitae cinxia*, using 454 Pyrosequencing*
- 3:05–3:25 Break
- 3:25–4:10 **J. Robert Manak**, University of Iowa, *Empirical annotation of arthropod genomes using tiled genomic microarrays*
- 4:10–4:55 **John Kenneth Colbourne**, Indiana University, *The Daphnia genome sequence*
- 5:00–6:30 **Poster Session** (Authors present EVEN numbered posters), Colonial Ballroom
- 6:30 pm **Reception** with light refreshments and cash bar, Foyer of Colonial Ballroom  
Explore Kansas City's new Power and Light District for dinner and return to open poster session.
- 6:30–11:00 pm Open Poster Session, Colonial Ballroom
- 7:30–9:30 pm **WORKSHOP: Chado Databases and Integration with GMOD Tools**, Dave Clements and Scott Cain, Truman B

## **SATURDAY, April 12, 2008**

- 7:00-8:00 Continental Breakfast, Imperial Ballroom  
Session Chair, **Yoonseong Park**, Entomology, Kansas State University
- 8:00 – 8:10 General Session – Announcements, Imperial Ballroom
- 8:10 – 8:55 **Catherine A. Hill**, Purdue University, *Tick genome organization and evolution: Insights from the Ixodes scapularis genome*
- 8:55 – 9:15 Oral presentation by selected poster author: **Yoshinori Tomoyasu**, Kansas State University, *Exploring systemic RNA interference in insects: a genome-wide survey for RNAi genes in Tribolium*
- 9:15-10:00 **Sarjeet S. Gill**, University of California-Riverside, *Mosquito midgut interactions with bacterial toxins*
- 10:00-11:30 **Poster Session** (Authors present ODD numbered posters), Colonial Ballroom
- 11:15 -12:15 Buffet Lunch served (concurrent with Poster Session)
- Session Chair: **Kristin Michel**, Biology, Kansas State University
- 12:30-1:15 **Thomas Kaufman**, Indiana University, *The latest news from CNN: What the 12 sequenced Drosophila genomes have told us about rapidly evolving genes and positive selection*
- 1:15-2:00 **Hugh Robertson**, University of Illinois at Urbana-Champaign, *What we've learned about the insect chemoreceptors from arthropod genome projects*
- 2:00-2:15 Break
- 2:15 – 3:00 **Evgeny Zdobnov**, University of Geneva Medical School, *A comparative perspective on insect genomes*
- 3:00-3:45 **Christine G. Elsik**, Georgetown University, *Unusual base composition of the honey bee genome*
- 3:45-4:00 Closing remarks and poster removal
- 4:00 Lepidoptera group meeting, Truman B
- 6:00 Meet in the lobby of the **Marriott** Tower (meetings have been in the Muehlbach Tower) to board coach for transportation to dinner.
- Evening** **Jazz and Kansas City Barbeque in the 18<sup>th</sup> and Vine District** (optional fee)
- 9:00 Coach departs from the Mutual Musicians Building to shuttle guests who wish to leave early to the hotel.
- 10:30 Final coach departure from the Mutual Musicians Building to the hotel.

## **SUNDAY, April 13, 2008**

- 7:30-9:00 Arthropod Genomics Center External Advisory Board meets with Center's Steering Committee, Burgundy Room.
- 8:00-9:00 Breakfast, Trianon A/B
- 9:00–Noon **Roundtable discussion** led by members of the ArthropodBase Consortium, Trianon A/B

### **Individual Training throughout the Symposium**

**4/11 and 4/12, Truman A**

Arthropod genome database and bioinformatics tool developers will be available for individual training on Apollo and database use as well as BeeSpace, the automated literature annotation system developed by Bruce Schatz and colleagues.