

**THE SYMPOSIUM SPEAKERS**



***QTL Mapping in AEDES AEGYPTI, the Yellow Fever Mosquito***

By Dr. Jeanne Romero-Severson, Professor  
Dept Biological Sciences, Notre Dame University  
Director, Indiana Center for Insect Genomics

The Indiana Center for Insect Genomics promotes collaborative insect genetics and genomics programs among research scientists at the participating Indiana universities and industries. Dr. Romero-Severson's work of *Aedes* is coauthored by Akio Mori and David W. Severson. Her personal research program also includes sequencing of human-infesting lice and genomic-level work in plants. She is a member of the K-State Arthropod Genomics Center's External Advisory Committee. Co-members Drs. Sarjeet Gill (University of California, Riverside) and David H. Walker (University of Texas Medical Branch) will also attend the symposium.



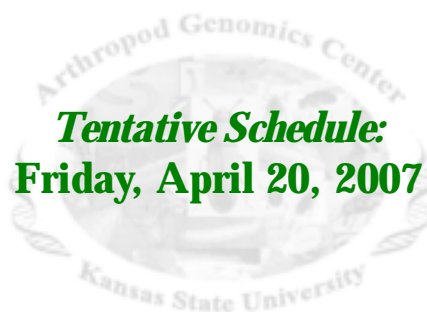
***Arthropod Genome Sequencing Present and Future***

By Dr. Stephen Richards, Assistant Professor  
Human Genome Sequencing Center  
Baylor School of Medicine

Dr. Richards has been involved in sequencing the genomes of a number of insects, including the flies *Drosophila melanogaster* and *D. pseudoobscura*, the honey bee *Apis mellifera*, the flour beetle *Tribolium castaneum*, the pea aphid *Acyrtosiphon pisum*, and three species in the wasp genus *Nasonia*.

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In addition to these speakers, presentations from K-State scientists will describe research approaches aimed at generating genomic tools for four insect species: aphids, termites, the Western flower thrip (vector of an agronomically important viral plant pathogen), and the European corn borer. The AGC has provided more than a quarter million dollars to these investigators for new experimental approaches.



***Tentative Schedule:  
Friday, April 20, 2007***

- 7:30 - 8 AM Registration & Refreshments
- 8:00 - 8:05 Welcome by Alfred Cochran, Assistant Provost
- 8:05 - 8:15 Introductory remarks: Susan Brown  
Director, K-State Arthropod Genomics Center
- 8:15 - 9:15 Jeanne Romero-Severson  
University of Notre Dame  
***QTL Mapping in AEDES AEGYPTI, the Yellow Fever Mosquito***
- 9:15 - 9:45 Christopher Culbertson, K-State Dept Chemistry  
and Gerald Reeck, K-State Dept Biochemistry  
***The Aphid Salivary Secretome: Genomics-based Approaches***
- 9:45 - 10:15 Srini Kambhampati, K-State Dept Entomology  
***Resource Development for Termite Genomics***
- 10:15-10:30 Break
- 10:30-11:00 Anna Whitfield, K-State Dept Plant Pathology  
***Developing Genomics Tools for FRANKLINIELLA OCCIDENTALIS***
- 11:00 - 11:30 Kun Yan Zhu, K-State Dept Entomology  
***Developing an Insect Gut-Specific DNA Microarray to Study Insect and Bt Toxin Interactions***
- 11:30 - 12:30 Stephen Richards  
Human Genome Sequencing Center,  
Baylor College of Medicine  
***Arthropod Genome Sequencing, Present and Future***
- 12:30 - 2 PM Lunch Buffet in the Flint Hills Room AND  
Poster Session on the 2<sup>nd</sup> Floor Concourse,  
K-State Union

**SYMPOSIUM REGISTRATION FORM**

Duplicate as needed for additional registrants, or register online:  
[www.ksu.edu/agc/RegisterOnLine.shtml](http://www.ksu.edu/agc/RegisterOnLine.shtml)

**REGISTRATION IS REQUIRED BY APRIL 10, 2007  
THERE IS NO CHARGE**

NAME: \_\_\_\_\_

DEPT: \_\_\_\_\_

UNIVERSITY/AFFILIATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

E-MAIL: \_\_\_\_\_

PHONE: \_\_\_\_\_

Yes, I will attend the Symposium luncheon.

No, I will NOT attend the luncheon.

Poster Presentation:

Yes, I plan to present a poster.

Title: \_\_\_\_\_

Authors: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**FAX REGISTRATION FORMS TO:**

785-532-6653

Attn: Doris Merrill, Arthropod Genomics Symposium

**MAIL REGISTRATION FORMS TO:**

Arthropod Genomics, K-State  
Division of Biology  
Ackert Hall  
Manhattan, KS 66506-4901

**PHONE:** (785) 532-3482

**LODGING:** For a list of lodging in Manhattan, go to:

<http://www.manhattancvb.org/index.asp?NID=2>

Nonprofit Organization  
US Postage  
**PAID**  
Permit No. 525  
Manhattan KS 66502

Arthropod Genomics Center  
Kansas State University  
Division of Biology  
Ackert Hall  
Manhattan, KS 66506-4901  
#308



**1<sup>st</sup> ANNUAL  
ARTHROPOD GENOMICS  
SYMPOSIUM**



## **1<sup>st</sup> ANNUAL ARTHROPOD GENOMICS SYMPOSIUM**

**Friday, April 20, 2007**

**K-State Student Union**

**Big 12 Room, 2<sup>nd</sup> Floor**

**Kansas State University  
Manhattan, Kansas**

## **K-STATE ARTHROPOD GENOMICS CENTER**

The Arthropod Genomics Center (AGC) was formed in 2006 with funding from the K-State Targeted Excellence program. The AGC brings together resources and expertise in bioinformatics and functional genomics to support K-State scientists in the application of genomic approaches to solving problems in arthropod biology related to human, animal and plant health.

The Center also encourages and fosters interactions and collaborations between its members and other scientists around the world who are studying arthropods at the genomic level. It includes twenty-five members who study ticks and insects, including aphids, Hessian fly, Lepidoptera, mosquitoes, and the red flour beetle. These species include those in which genome sequencing has been completed (e.g. Tribolium) or is underway (e.g. pea aphid), as well as those for which sequencing is not anticipated in the near future. For the latter, the emphasis will be on the development of such genomic tools as EST libraries and microarrays. In addition to bioinformatics support and the fostering of interactions, the AGC provides direct funding for seed grants, travel, seminar speakers, and the development and presentation of new classes.

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### **ARTHROPOD GENOMICS SYMPOSIUM**

Annually, the K-State AGC will sponsor a symposium providing a national forum in arthropod genomics. Future symposia will take place in Kansas City, with talks by nationally/internationally-recognized researchers. In 2007, however, the meeting will be held on the K-State campus and will be limited to a morning session, lunch, and a poster session. Please join us and be on the alert for next year's Arthropod Genomics Symposium.

**FUNDED BY K-STATE TARGETED EXCELLENCE**