

KEYNOTE

Fotis C. Kafatos*Imperial College London*

Evolutionary, functional and population genomics of mosquitoes: The perspective of a malarialogist

William M. Gelbart*Harvard University*

Opportunities and challenges for arthropod genomics and informatics in the NextGen world

FEATURED

Volker P. Brendel*Iowa State University*

Opportunities and challenges for automated genome annotation and modeling in a time of unlimited access to sequence data

Susan J. Brown*Kansas State University*Profiling genome transcription during *Tribolium* development: From egg to eternity**Jay D. Evans***USDA-ARS Bee Research Lab, Beltsville, MD*

Chasing your honey: Genomic studies of honey bees and their pathogens

Marian R. Goldsmith*University of Rhode Island*The new silk road: From *Bombyx* to butterflies**David G. Heckel***Max Planck Institute for Chemical Ecology, Germany*Insect defenses in chemical co-evolution: Transcriptional responses of the generalist herbivore *Helicoverpa armigera* to plant defense compounds, phytohormones, and insecticides**Kristin Michel***Kansas State University*

Mosquito salivary gland interactions with malaria parasites

Terence Murphy*NCBI/NIH*

Arthropod genome support at NCBI and the challenges of annotating genomes in the 21st century

Marcelo Ramalho-Ortigao*Kansas State University*

Sand fly functional genomics and beyond

Yoonseong Park*Kansas State University*

Evolutionary processes of the partnership between neuropeptides and their receptors

Jose Ribeiro*NIH/NIAID*An insight into the spitome of the blood sucking *Nematocera***Denis Tagu***INRA Rennes, France*

The pea aphid genome to study phenotypic plasticity

Doreen Ware*USDA-ARS, Cold Spring Harbor Laboratories*

Annotation and comparative analysis of plant genomes

Stephen K. Wikel*University of Texas Medical Branch*

Tick-host-pathogen research in the post-genomic era



Frontiers in Arthropod Genomics

THIRD ANNUAL

Arthropod Genomics

SYMPOSIUM

June 11-14, 2009

Kansas City

Position yourself at the forefront of insights in genomic approaches to arthropods and learn about the development of tools for genomic analysis.

Thursday, June 11

Pre-symposium workshop on Chado databases and integration with GMOD tools by Scott Cain, Ontario Institute for Cancer Research.

Friday, June 12

Symposium sessions followed by an evening seminar on genomic sequence capture and Next-Gen sequencing. Sponsor: Roche NimbleGen

Saturday, June 13

Symposium sessions followed by an evening of Kansas City Jazz and Barbecue at Fiorella's Jack Stack Freight House.

Sunday, June 14

Participate in a roundtable discussion led by members of the ArthropodBase Consortium regarding the generation of integrated arthropod genome databases, tools for genome analysis, and community curation.

WHO SHOULD ATTEND

The conference is designed for scientists interested in genomic studies of Arthropods, both model organisms and those of agricultural or health relevance. Postdoctoral, graduate, and undergraduate students are also encouraged to attend.

POSTERSPosters should be related to studies of Arthropods using genomic approaches. Follow the guidelines at www.k-state.edu/agc/abstracts and submit by May 15. A few platform presentations will be chosen from submitted poster abstracts.**REGISTRATION** includes a welcome reception Thursday evening, breakfast and lunch on Friday and Saturday, and breakfast on Sunday.**Register by Friday, March 20, 2009 for Early Discount Rates:** \$295 (\$150 for graduate and undergraduate students).**After March 20, Registration is** \$395 (\$225 for students). Deadline: Friday May 15, 2009.

Registration will continue to be accepted after May 15, if space is available.

Cost of optional Saturday evening dinner is \$50 (\$25 for students).

Conference Details and Registration at

www.k-state.edu/agc/symp2009

Symposium funding provided by the Center for Genomic Studies on Arthropods Affecting Human, Animal and Plant Health with support from Targeted Excellence at Kansas State University.

HOTEL

The symposium sessions will be held in the historic Marriott Hotel in downtown Kansas City. Known as "Kansas City's Hotel of Presidents," every president from Woodrow Wilson through Ronald Reagan stayed in the Presidential Suite. Among its other celebrity guests were Babe Ruth, the Beatles, and Elvis Presley.

The Marriott has reserved a block of rooms for symposium participants at the low rate of \$135 per night. After 5/21/09, reservations will be accepted at the hotel's prevailing rate (up to \$300). The on-site parking fee is \$13 daily. Call 1-800-810-0850 on or before May 21 or book online by accessing the "Hotel" link on www.k-state.edu/agc/symp2009. Please use the group code, "AGSAGS-A, B, or C," to obtain the group discount at the Marriott Downtown, 200 West 12th Street, Kansas City, MO 64105.

SATURDAY NIGHT JAZZ AND KANSAS CITY BARBECUE

For 50 years, Fiorella's Jack Stack has set the standard for premier barbecue in Kansas City. The Freight House location, next to historic Union Station, is where freight trains were repaired in the early days of railroad travel. The Kerry Strayer Jazz Trio will provide entertainment "Kansas City style" by playing classic jazz from the 20s to the present. The separate charge for this optional activity is \$50 (\$25 for students). Transportation will be provided.

PRE-SYMPOSIUM WORKSHOP - THURSDAY AFTERNOON, JUNE 11, 4:30-6:30 p.m.

Chado Databases and Integration with GMOD Tools. Scott Cain, Ontario Institute for Cancer Research, will provide training on Chado database design, data loading and exporting, and integration with other GMOD tools such as Apollo and GBrowse. Particular emphasis will be given to comparative genomics tools. There is no cost to attend this optional workshop, but registration is requested.

SEMINAR - FRIDAY EVENING, JUNE 12, 7:30-9:00 p.m.

Genomic Sequence Capture. Christina Middle, Roche, will present how to transform your sequencing project with this highly efficient and cost-effective method for capturing the targeted regions of your desired genome. Roche NimbleGen Sequence Capture Arrays enable you to produce targeted, sequencing-ready samples in your lab. Participants will learn the many advantages sequence capturing provides as well as the process for which to obtain positive results.

Next-Gen Sequencing. Timothy Harkins, Roche, will present the latest technological advances and applications using Roche 454's ultra-high throughput DNA Genome Sequencer and its range of

supported applications including de novo sequencing, resequencing of whole genomes and target DNA regions, metagenomics and RNA analysis. GS FLX systems support the sequencing of samples from genomic DNA, PCR products, BAC products and cDNA. The new GS FLX Titanium Series enables up to one million sequencing reads per instrument run with Q20 score at the 400 base pair position to achieve between 350-500 Mb of high quality data.

TRANSPORTATION

Air: Kansas City International Airport (MCI) is approx. 30 minutes from the conference site.

Ground: KC Transportation Group, www.kctg.com, offers options such as SuperShuttle Shared-Ride Service, 1-800-258-3826, ~\$17 one-way or ~\$29 round trip; Group Code: 7WCA9. Taxi service is ~\$55 one-way.

SPECIAL ASSISTANCE

A participant in a conference or non-credit program with a disability who needs accommodations or has special dietary requirements should indicate services needed at the time of registration. If you have further questions please contact Heide Burke at (785) 532-2549 or hburke@k-state.edu. Early notification is requested to ensure that accommodations can be provided in a timely manner.

NOTICE OF NONDISCRIMINATION

Kansas State University is committed to nondiscrimination on the basis of race, color, ethnic or national origin, sex, sexual orientation, gender identity, religion, age, ancestry, disability, military status, veteran status, or other nonmerit reasons, in admissions, educational programs, or activities and employment, including employment of disabled veterans and veterans of the Vietnam Era, as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries concerning Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans With Disabilities Act of 1990 has been delegated to the director of Affirmative Action, Kansas State University, 214 Anderson Hall, Manhattan, KS 66506-0124, 785-532-6220 or TTY: 785-532-4807.

More Details and Registration at
www.k-state.edu/agc/symp2009

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ARTHROPOD SYMPOSIUM DEADLINES:
Early Discount Registration: March 20, 2009
Registration: May 15, 2009
Poster Abstracts: May 15, 2009
Hotel Reservations: May 21, 2009

Conference Details and Registration at
www.k-state.edu/agc/symp2009

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