

Keynote Speaker

Marc A.T. Muskavitch

Boston College

Advancing vector genetics through the power of vector genomics

Featured Speakers

Gregor Bucher

Georg-August University, Göttingen, Germany

iBeetle: Genome wide RNAi screen for embryonic and metamorphic development in *Tribolium*

Owain R. Edwards

CSIRO Ecosystem Sciences, Perth, Australia

DNA methylation and phenotypic plasticity in the pea aphid, *Acyrtosiphon pisum*

Cassandra Extavour

Harvard University

Overcoming the gene discovery bottleneck for arthropod evo-devo: Creating de novo developmental transcriptomes

Toni Gabaldón

Centre for Genomic Regulation, Barcelona, Spain

Arthropod genomes as seen through the lens of evolution

Cheryl Y. Hayashi

University of California, Riverside

Spider silks: Functional and evolutionary insights into high-performance materials

Mary Ann McDowell

University of Notre Dame

A tale of two sand fly genomes: *Phlebotomus papatasi* and *Lutzomyia longipalpis*

Pedro L. Oliveira

Instituto Nacional de Ciência e Tecnologia e Universidade Federal do Rio de Janeiro, Brazil

An insight into the transcriptome of the digestive tract of the blood sucking bug, *Rhodnius prolixus*

Michael E. Pfrender

University of Notre Dame

Genome structure, functional diversification, and Genome X environment interactions in *Daphnia*

Dorith Rotenberg

Kansas State University

A genomics-based approach to identify insect molecular components associated with vector competency in *Frankliniella occidentalis*, the primary thrips vector of *Tomato spotted wilt virus*

Hervé Seitz

LBME, CNRS and Université Paul Sabatier, Toulouse, France

Genomics of small RNAs in insects

Alex C. C. Wilson

University of Miami

Genomic insights into nitrogen upgrading and recycling in the aphid [*Buchnera*] symbiosis

Guojie Zhang

Beijing Genome Institute, China

BGI's recent activity on insect genomic research

Arthropod Genomics 2011: Exploring Diversity, Relating Similarity



FIFTH ANNUAL

Arthropod Genomics

S Y M P O S I U M

June 9 - 12, 2011

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 9

- ◆ Pre-symposium workshop, 4:00-6:00 p.m., *Genome Project 101*, by Scott Cain, OICR, and Dave Clements, Emory University.
- ◆ 15k genome sequencing initiative, by Kevin J. Hackett, Biological Control, USDA.
- ◆ Keynote presentation begins at 7:30 p.m. followed by a welcome reception.

Friday, June 10

- ◆ Symposium and poster sessions, meetings of various organism groups

Saturday, June 11

- ◆ Workshop, 10:00-11:30 a.m., *Comparative genomics with the generic synteny browser (GBrowse_syn): Configuration and display of various co-linearity data types*, by Sheldon McKay, iPlant.
- ◆ Symposium & poster sessions followed by an optional banquet at Lidia's of Kansas City.

Sunday, June 12

- ◆ Participate in a roundtable discussion with the ArthropodBase Consortium regarding the generation of integrated arthropod genome databases, tools for genome analysis, and community curation. Discussion will focus on I5k, led by Kevin J. Hackett, USDA. Activities conclude at noon.

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.

POSTERS

Poster sessions will be held Friday night and Saturday. Posters should be related to studies of Arthropods using genomic approaches. Submit abstracts by Wednesday, May 18, following the guidelines on the symposium website. Six platform presentations will be chosen from submitted poster abstracts.

PRE-CONFERENCE MEETINGS

- ◆ **International Tribolium Meeting**
Group will meet at 10:00 a.m. on Wednesday, 6/8, and conclude at 3:30 p.m. on Thursday, 6/9. Registration fee (\$100) includes lunch on 6/8 & 6/9.
- ◆ **International Aphid Genomics Consortium**
Group will meet at 8:00 am on Thursday, 6/9, and conclude at 3:30. Registration fee (\$50) includes lunch. Additional information regarding these meetings will be posted to the symposium website as details are finalized.

REGISTRATION includes a welcome reception Thursday evening, breakfast and lunch on Friday and Saturday, and breakfast on Sunday.

Register by Wednesday, March 30, 2011, for Early Discount Rates:

\$295 (\$150 for graduate and undergraduate students). Registration Services: 1-800-432-8222.

After March 30, Registration is \$395 (\$225 for students). Deadline: Wednesday, May 18, 2011.

Registration will continue to be accepted after May 18, if space is available.

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

Conference Details and Registration:

www.k-state.edu/agc/symp2011

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

HOTEL

The symposium sessions will be held in the Kansas City Marriott Country Club Plaza, located on the beautiful Country Club Plaza – a premier shopping and entertainment district. The Marriott has reserved a block of rooms for symposium participants at the low rate of \$121 per night. **On or before 5/18/11**, call 1-800-810-3708 and ask for the KS State University Arthropod group rate or book online by accessing the “Hotel” link on www.k-state.edu/agc/symp2011. The group code is ksuksua. After Wednesday, 5/18/11, reservations will be accepted at the hotel’s prevailing rate, if space is available. The on-site self-parking fee is \$14 on Thursday and \$10 per day for Friday and Saturday. The Kansas City Marriott Country Club Plaza is located at 4445 Main Street, Kansas City MO 64111.

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, www.supershuttle.com, ~\$18 one-way or ~\$31 round trip. Taxi service is ~\$55 one-way.

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 Univ, 214 Anderson Hall, Manhattan, KS 66506-0124, 785-532-6220 or TTY: 785-532-4807.

SPECIAL ASSISTANCE

A conference or non-credit program participant who needs accommodations due to a disability 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.

PRE-SYMPOSIUM WORKSHOP: Thursday afternoon, June 9, 4:00-6:00 p.m.

Genome Project 101: We’ve got an assembly! Now What? Scott Cain, OICR, and Dave Clements, Emory University, will demonstrate open source bioinformatics tools from the GMOD project that transform unannotated genome assemblies into online resources that enable data analysis and integration. Generating annotations, visualizing the genome, saving into a web-accessible database, and analyzing, refining and integrating the data will be presented. The workshop is aimed at biologists and assumes no programming skills.

ORGANISM MEETINGS: Friday afternoon/evening, June 10, 4:00-6:00 p.m.

Meet with scientists who are also working with your organism of interest during small group gatherings. Please notify dmerrill@ksu.edu if you are interested in coordinating topics and leading the discussions for your organism group. Additional information will be posted to the conference website as details are finalized.

WORKSHOP/SEMINAR: Saturday morning, June 11, 10:00-11:30 a.m.

GBrowse_syn. Sheldon McKay, iPlant Collaborative, will demonstrate how to configure and use the example multiple sequence alignment data set installed with GBrowse-syn as well as other, more complex data sets from a MERCATOR alignment pipeline. Non-sequence alignment data derived from co-linear protein orthologs will also be presented.

SATURDAY NIGHT BANQUET: Enjoy Lidia’s Italy! Lidia Bastianich, owner,

is one of the most-loved chefs on television and a best-selling cookbook author. She has married her two passions in life—her family and food. The separate charge for this optional activity is \$50 (\$25 for students). Lidia’s is located adjacent to Kansas City’s historic Union Station. Transportation will be provided.

Additional Conference Details and Registration at www.k-state.edu/agc/symp2011

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Center for Genomic Studies on Arthropods
 Affecting Human, Animal & Plant Health
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