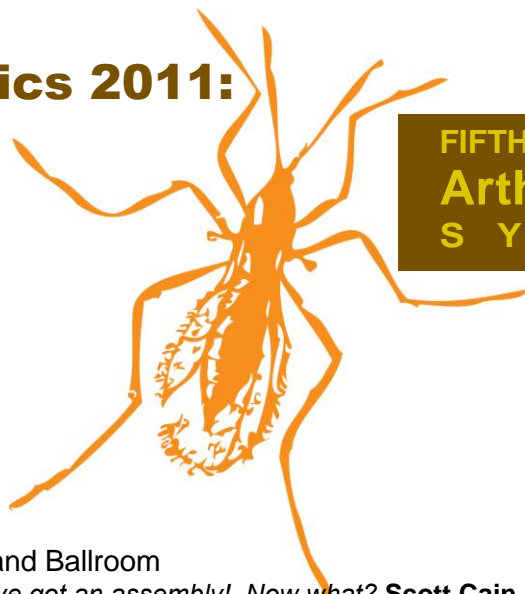


Arthropod Genomics 2011: Exploring Diversity, Relating Similarity



FIFTH ANNUAL
Arthropod Genomics
SYMPOSIUM

June 9 – 12, 2011
Kansas City

Schedule

Thursday, June 9, 2011

PRE-SYMPOSIUM WORKSHOP – Grand Ballroom

4:00-6:00 pm *Genome Project 101: We've got an assembly! Now what?* **Scott Cain**, OICR, and **Dave Clements**, Emory University

6:00-7:30 Dinner on your own

Registration and Poster Set-up

6:30–8:30 pm **Registration**

6:30-7:15 pm **Poster Set-up** in the Grand Ballroom (Other times include 9:00-10:00 pm Thursday or 7:15-8:15 am Friday)

GENERAL SESSION – Grand Ballroom, 2nd floor of the hotel; Session chair: **Dick Beeman**, USDA ARS Center for Grain and Animal Health Research (CGAHR)

Welcome

7:30 pm **Susan J. Brown**, Director, Center for Genomic Studies on Arthropods Affecting Human, Animal and Plant Health, Kansas State University

Introduction to I5k

7:35-8:00 **Kevin J. Hackett**, Senior National Program Leader, Biological Control, USDA/ARS

Keynote Speaker

8:00-8:55 pm **Marc A.T. Muskavitch**, Boston College, *Advancing vector genetics through the power of vector genomics*

Welcome Reception

8:55-10:30 pm Enjoy hors d'oeuvres and beverages in the Seville Ballroom on the 2nd floor of the hotel

Poster Setup

9:00-10:00 pm **Poster Set-up** in the Grand Ballroom (Posters may also be placed on display Friday morning before 8:15.)

Friday, June 10, 2011

GENERAL SESSION – Grand Ballroom

7:15-8:15 am **Registration and Poster Set-up** in the Grand Ballroom

7:15 am **Breakfast**, Foyer outside the Ballroom

Emerging Genomes; Session Chair: **Marcé Lorenzen**, North Carolina State University

8:30-9:00 **Pedro L. Oliveira**, Instituto Nacional de Ciência e Tecnologia and Universidade Federal do Rio de Janeiro, Brazil, *An insight into the transcriptome of the digestive tract of the blood sucking bug, Rhodnius prolixus*

9:00-9:30 **Mary Ann McDowell**, University of Notre Dame, *A tale of two sand fly genomes: Phlebotomus papatasi and Lutzomyia longipalpis*

9:30-9:50 Oral presentation by selected poster author: **Alexie Papanicolaou**, CSIRO Ecosystem Sciences, Canberra, Australia, *A community-centric bioinformatic infrastructure for new genome consortia*

9:50-10:20 **Guojie Zhang**, Beijing Genome Institute, Shenzhen, China, *The emerging arthropod reference genomes from China*

10:20-10:45 BREAK

Friday, June 10, 2011 (Continued)

Comparative Genomics, Session Chair: **Haobo Jiang**, Oklahoma State University

10:45-11:15 **Gregor Bucher**, Georg-August University, Göttingen, Germany, *iBeetle: Genome wide RNAi screen for embryonic and metamorphic development in the beetle Tribolium castaneum*

11:15-11:45 **Cheryl Y. Hayashi**, University of California, Riverside, *Spider silks: Functional and evolutionary insights into high-performance materials*

LUNCH

11:45-1:10 Seville Ballroom

1:15-1:45 **Toni Gabaldón**, Center for Genomic Regulation (CRG), UPF, Barcelona, Spain, *Arthropod genomes as seen through the lens of evolution*

1:45-2:05 Oral presentation by selected poster author: **Sonja Grath**, Westfälische Wilhelms-Universität Münster, Germany, *Rates, mechanisms and functional implications of modular protein rearrangements during 400 million years of arthropod evolution (1st author - Moore)*

2:05-2:30 BREAK

Regulating the Genome; Session Chair: **Yoshi Tomoyasu**, Miami University

2:30-3:00 **Hervé Seitz**, LBME, CNRS/Université Paul-Sabatier, Toulouse, France, *The genomics of small RNAs in insects*

3:00-3:20 Oral presentation by selected poster author: **Molly Duman-Scheel**, Indiana University School of Medicine on the campus of the University of Notre Dame, *Comparative genomic and functional genetic analysis of vector mosquito development (1st author—Behura)*

3:20-3:50 **Cassandra Extavour**, Harvard University, *Overcoming the gene discovery bottleneck for arthropod evo-devo: Creating de novo developmental transcriptomes*

3:50-4:20 **Owain Edwards**, CSIRO Ecosystem Sciences, Perth, Australia, *DNA methylation and phenotypic plasticity in the pea aphid, Acyrthosiphon pisum*

4:30-6:30 pm **Organism meetings:** Lepidoptera Group, Plaza Room, 2nd floor
Mosquito Group, Seville I, 2nd floor
Additional Group, Seville II, 2nd floor

6:30-8:00 pm Dinner on your own

POSTER SESSION

8:00-11:00 pm Poster session and dessert bar (2 drink tickets/person for cash bar will be distributed at the poster session.)

8:00 - 9:00 Authors present **EVEN NUMBERED** posters.

9:00 - 10:00 Authors present **ODD NUMBERED** posters.

10:00-11:00 Open session.

Saturday, June 11, 2011

GENERAL SESSION – Grand Ballroom

7:15 am Breakfast

Environmental Genomics; Session Chair: **Jenn Brisson**, University of Nebraska

8:30-9:00 **Michael Pfrender**, University of Notre Dame, *Genome structure, functional diversification, and Genome X environment interactions in Daphnia*

9:00-9:30 **Dorith Rotenberg**, Kansas State University, *A pest, a plant pathogen, and paucity of tools, oh my! A genomics-based approach to investigate the molecular interaction between Frankliniella occidentalis and Tomato spotted wilt virus*

9:30-9:50 Oral presentation by selected poster author: **Giuseppe Saccone**, University of Naples Federico II, Italy, *Towards the analysis of transcriptome from sexed Ceratitis capitata embryos: How to produce XX male embryos by transgene-mediated RNAi and identify male biased/male determining genes (1st author-Salvemini)*

9:50-10:10 Oral presentation by selected poster author: **Jennifer M. Tsuruda**, Purdue University, *Behavioral resistance to Varroa mites: Two genome-wide genotyping studies in honey bees*

10:10-10:30 BREAK

Saturday, June 11, 2011 (continued)

WORKSHOP/SEMINAR – Grand Ballroom

10:30-12:00 Comparative genomics with the generic syteny browser (GBrowse_syn): Configuration and display of various co-linearity data types, **Sheldon McKay**, iPlant Collaborative

LUNCH

12:00-1:30 Seville Ballroom

POSTER SESSION

1:30-2:15 Authors present **ODD NUMBERED** posters

2:15-3:00 Authors present **EVEN NUMBERED** posters

3:00-3:15 BREAK

GENERAL SESSION – Environmental Genomics (continued); Session Chair: **Jeff Stuart**, Purdue University

3:15-3:45 **Alex C. C. Wilson**, University of Miami, *Genomic insights into nitrogen upgrading and recycling in the aphid [Buchnera] symbiosis*

3:45-4:05 Oral presentation by selected poster author: **Kirk Grubbs**, University of Wisconsin-Madison, *Transcriptional response to manipulation of fungal symbiosis in leaf-cutter ant, Atta cephalotes*

4:05-4:25 Oral presentation by selected poster author: **Allison K. Hansen**, Yale University, *Recycling and de novo synthesis: the Buchnera–aphid collaboration for amino acid metabolism*

4:25-4:30 CONCLUDING REMARKS

4:30-4:45 REMOVE POSTERS

SATURDAY NIGHT DINNER AT LIDIA'S OF KANSAS CITY (optional)

Lidia's of Kansas City, 101 West 22nd Street, Kansas City, MO 64108

6:30 p.m. Meet in the lobby of the hotel to depart on the first coach to dinner. (Coach sign-up sheet available at Registration desk.)

7:00 p.m. Meet in the lobby of the hotel to depart on the final coach to dinner.

7:35 p.m. Approximate time for dinner service to begin.

Sunday, June 12, 2011

ARTHROPOD GENOMICS ROUNDTABLE MEETING, Grand Ballroom

7:15 -8:30 am Consortium Meeting Breakfast Buffet

8:30 am-Noon All participants are invited to join in a roundtable discussion led by members of the Arthropod Base Consortium regarding the generation of integrated arthropod genome databases, tools for genome analysis, and community annotation. Discussion will focus on I5k, led by Kevin J. Hackett, USDA.

12:00 Noon Meeting concludes.

2011 Symposium Organizing Committee, Kansas State University

Rob Denell, Chair; Division of Biology

Sue Brown, Division of Biology Kristin Michel, Division of Biology

Subbaratnam Muthukrishnan, Dept. of Biochemistry Yoonseong Park, Department of Entomology

**Symposium funded by the Center for Genomic Studies on Arthropods Affecting Human, Animal and Plant Health
Kansas State University, www.k-state.edu/agc**