9th Workshop of the
International Aphid Genomics
Consortium (IAGC)

Sunday 25th September 2016
Orlando, Florida, USA

One-day workshop
Program

Venue: Orange County Convention Center W224 E

Bold: invited speakers
Not bold: selected speakers

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8:15-9:00 Registration and Introduction by IAGC
9:00-10:50 Session 1: In progress genome projects part 1

9:00-9:20. **Aphis glycines** [Michel Andrew (Agricultural Research and Development Center, Ohio State University, Wooster, USA); Rosanna Giordano, (Univ Puerto Rico)]

9:20-9:40. **Diuraphis noxia** [Gary Puterka & Scott Nicholson (USDA, Stillwater, USA)]

9:40-10:00. **Cinara cedri** [Toni Gabaldon (CRG, Barcelona, Spain)]

10:00-10:20. **Daktulosphaira vitifoliae** (Phylloxera) [Denis Tagu & Fabrice Legeai (INRA, Rennes, France)]

10:20-11:20 Tea/coffee break and poster session
11:20-12:25  **Session 2: In progress genome projects part 2**

**11:20-11:40. Aphid transcriptomics** [Colin Favret (Univ Montreal, Canada), Kevin Johnson (Illinois Natural History Survey, Champaign, USA)]

11:40-11:55. Asian Citrus Psyllid [Judith Brown (Univ Arizona, USA)]

11:55-12:10. The genetic architecture of host-fidelity in the aphid parasitoid *Aphidius ervi* [Gabriel Ballesteros, Univ Talca, Chile]]

12:10-12:25. *Myzus cerasi* and *Rhopalosiphum padi* genome sequencing, transcriptomics and proteomics [Peter Thorpe (James Hutton Institute, UK)]

12:25-13:30  (quick) Lunch on our own

**13:30-14:45  Session 3: Bioinformatics**

**13:30-13:50. AphidBase** [Fabrice Legeai (INRA Rennes, France)]

**13:50-14:10. PhylomeDB** [Toni Gabaldon (CRG, Barcelona, Spain)]

**14:10-14:30. i5k workspace@NAL** [Monica Muñoz Torres (Univ California Berkley, USA) and Monica Poelchau (USDA NAL, Beltsville, USA)]

14:30-14:45. DNA based biodiversity in of Luteovirus borne aphid species [Muhammad Tayyib Naseem (National Institute for Biotechnology and Genetic Engineering, Faisalabad, Pakistan)]

**14:45-16:30  Session 4: Tools for post-genomics approaches**

**Targetted and non-targeted mutagenesis**

**14:45-15:00. EMS and CRISPR mutagenesis in the pea aphid** [Gaël Le Trionnaire (INRA, Rennes, France)]

**RNAi**

15:00-15:15. RNAi-mediated screening for novel pest control targets in *Acyrthosiphon pisum* [Andreas Vilcinskas (Univ Giessen, Germany)]

15:15-15:30. Aerosolized siRNAs and nanoparticles successfully knocks down gene expression of BCAT in the soybean aphid [Allison Hansen (University of Illinois, Urbana-Champaign, USA)]

15:30-15:45. RNAi strategies to silence genes in aphids [Véronique Brault (INRA, Colmar, France)]

**Other topics**
15:45-16:00. The use of new genomic methodologies for real-time pest surveillance [Ramiro Morales-Hojas (Rothamsted Research, Harpenden, UK)]

16:00-16:15. Resequeencing strategies to tackle population genomic issues in the pea aphid complex [Jean-Christophe Simon (INRA, Rennes, France)]

16:15-16:30. Genome-wide association study reveals genetic determinants of nutritional phenotypes in insect-bacterial symbiosis [Seung Ho Chung (Cornell Univ, USA)]

16:30-16:45. First proteomic approach of *Acyrthosiphon pisum* hemolymph [Jean-Luc Gatti (INRA, Sophia Antipolis, France)]

16:45-17:30  **Session 5: Prospective for IAGC**

17:30  **Concluding remarks and end of the workshop**

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**18:00: opening of ICE 2016**