

Arthropod Genomics Research (AGR) Workshop II

George Washington Carver Center, Beltsville, Maryland

July 26 to 28, 2016

Day 1: Tuesday July 26th

8:00 a.m. Arrival and sign in (room 4-2223)

Session I: ARS Big Data Resources

8:15 a.m. Introductory remarks, Steve Kappes, Deputy Administrator, Animal Production and Protection

8:20 a.m. Introductory remarks, Paul Gibson, Chief Information Officer, ARS

8:25 a.m. Introduction and purpose; addressing the Grand Challenge (Kevin Hackett, Rosalind James, and Brad Coates)

8:35 a.m. The i5K Workspace (Chris Childers)

8:55 a.m. High-Performance Computing (HPC) and SCINet update (Doreen Ware)

9:15 a.m. AGR Workshop I: Outcomes (Brad Coates)

9:35 a.m. ARS Big Data Overview (Doreen Ware)

9:55 a.m. Scientific Core and Virtual Support Team Concepts; forming interactions within and between communities as goals/outcomes of the workshop (Brad Coates)

10:15 a.m. *BREAK (25 minutes)*

Session II: Grand Challenge Projects and Challenges

10:40 a.m. Beetle Story (Brenda Oppert)

11:10 a.m. Bee Story (Jay Evans)

11:30 a.m. Brown Marmorated Stink Bug Story (Dawn Gundersen-Rindal)

11:50 a.m. Open discussion of Session II topics

12:00 p.m. *LUNCH BREAK (discussions can continue)*

Session III: Grand Challenge Projects and Challenges (continued)

1:00 p.m. Vector Disease Challenge (Bob Shatters)

1:20 a.m. Veterinary Pest Genomics Center Update (Pia Olafson)

1:40 p.m. Biocontrol Challenge (Keith Hopper)

2:00 p.m. Open discussion of Session III topics

2:20 p.m. *BREAK (25 minutes)*

2:45 p.m. Breakout I: Workflows and Gap Analyses within Scientific Core Teams

Formulate goals and path(s) forward. In doing so, outline assay designs, technologies, and analytics used, and what is required to allow the group and team members to attain research goals within the context of the Challenges with the Grand Challenge. (Rooms will be assigned.)

5:00 p.m. *Adjourn*

DINNER and EVENING: Optional continuation of team discussions.

Day 2: Wednesday July 27, 2016

8:00 a.m. Arrival and sign in (room 4-2223)

Day2: Session IV: Developing a Consensus among Gap Analyses

8:15 a.m. Introduction to the day (Brad Coates)

8:20 a.m. Reports Day 1 Breakout Session I, each Scientific Core Team (10 minutes each)

8:45 a.m. Open discussion (30 minutes): synthesis of shared and unique gaps. Develop goals across teams.

9:15 a.m. Scientific Core Teams reform and revise notes. [Upload to GoogleDocs.](#)

9:30 a.m. Develop connections and collaborations for HPC “onboarding,” and establish developmental data analysis projects (Doreen Ware)

10:00 a.m. *BREAK (30 minutes)*

Day2: Session V: Training, Mentoring, and Distribution of Knowledge across ARS

10:30 a.m. Brief Introduction (Brad Coates)

10:40 a.m. Big Data information repositories: the Ag Data Commons (Cyndy Parr, NAL)

11:00 a.m. Developing ARS training modules (Pia Olafson)

11:20 a.m. ARS mentoring programs (Kim McGregor, ARS Human Resources)

11:40 a.m. “Insourcing” model: facilitating intra-Agency collaboration (Wayne Hunter)

12:00 p.m. *LUNCH BREAK*

Day2: Session VI: Community Interactions: Devising Paths towards Solutions

1:00 p.m. Breakout II: Devising solutions within Challenge Areas
Using Outlines from Outbreak Session I and the consensus reached from Session IV: each Challenge Team will devise a framework for developing and distributing information Across ARS. Develop schema that facilitates long-term collaborative interactions and is adaptive to changing needs of the genomics research community in order to meet goals of the Challenges Areas. (Rooms will be assigned.)

3:00 p.m. *BREAK (30 minutes)*

3:30 p.m. Reports Day 2 Breakout II, each Challenge Team (around 10 minutes each)

4:00 p.m. Open discussion (45 minutes): synthesis of outcomes and concepts. Prioritize needs and paths forward.

4:45 p.m. Workshop Feedback

5:00 p.m. *Adjourn*

Day 3: Thursday July 28, 2016

Day3: Session VII: Workshop summary and documentation

8:00 a.m. Core Team leaders and Coordinating Committee Meet; Charge Writing (Room 41255_1125)

12:00 p.m. *LUNCH BREAK*

1:00-5:00 p.m. *Adjourn; individuals depart based on flight schedules*