

Multistate Project S-1076 Virtual Meeting:
Fly Management in Animal Agriculture Systems and
Impacts on Animal Health and Food Safety (2019-2024)

January 11-13th, 2022

S1076 Google Drive:

<https://drive.google.com/drive/folders/1p409NO-ZdJrjZc9aM7jue3YvteYRwtHN>

Day 1 January 11 (11am – 2pm EST)

Welcome and Introductions Erika Machtinger (Chair)

S-1076 Officer Reports:

Erika Machtinger (Chair)
Becky Trout-Fryxell (Past Chair)
Chris Geden (Secretary)
Justin Talley (2022 Local Arrangements Chair)

Advisor Reports / Program Leader:

Dave White (S-1076 Administrative Advisor)

****NEW:** Kathe Bjork and Robert Smith (NIFA Representatives)** (welcome Dr. Bjork and Dr. Smith!)
USDA NIFA National Program Leaders

Objective 1. New technologies for the management of biting and nuisance flies in organic and conventional systems *(Led by Watson)*

- Novel push-pull strategies (NE, NC, USDA-NE, USDA-FL)
- Evaluation of improved monitoring systems (USDA-NE, CA, TN, NM)
- Novel toxicants, biopesticides, & delivery systems (FL, PA, NE, NM, TX, USDA-FL, USDA-NE)
- Non-pesticide management options (mechanical) (AU, FL, NC, NE, PA, TN, USDA-NE, USDA-FL, USDA-TX)

Objective 2. Insecticide resistance detection and management *(Led by Kaufman and Scott)*

- Assessment of insecticide resistance (TX, NY, USDA)
- Leveraging the *Stomoxys* and *Musca* genomes for novel control measures (NY, USDA)

Either email objective leader or sign up at the link here:

https://docs.google.com/spreadsheets/d/1fM_WbCpV8nA3IHxN8K2AfRbV44FP4RuAgSaFE-zbifw/edit#gid=1966139455

Day 2 January 12 (11am – 5pm EST)

Welcome and Introductions Erika Machtinger (Chair)

Objective 3. Investigation of the microbial ecology, epithelial immunity, and vector competence of biting and nuisance flies *(Led by Nayduch)*

- Identification of the key bacterial strains and their metabolites playing a major role in oviposition and larval development of stable flies (TX, KS, USDA)
- Investigation of the innate immune response of filth flies (KS, USDA)
- Consequences of fly-bacteria interactions: selection effects and evolutionary outcomes (USDA, TX)
- Animal and human pathogen acquisition, dispersal, and deposition by muscid flies (AU, NC, MA, KS)

Objective 4. Characterize population biology of biting and nuisance flies *(led by Burgess)*

- Characterize effects of climate and landscape features on dispersal (KS, TX, USDA-NE)
- Phenology of biting and nuisance flies (AU, FL, KS, TN, USDA-NE)
- Genetic structure of biting and nuisance fly populations (TN, TX, USDA-NE)

Objective 5. Extension and community engagement *(Led by Gerry)*

- Improve project website to maximize extension and community engagement
- Demonstrate research value to stakeholders and funding decision-makers
- Seek funding to support these extension/outreach efforts by developing proposals that will be submitted to various granting agencies including our Regional IPM Centers.

Either email objective leaders identified above or sign up at the link here:

https://docs.google.com/spreadsheets/d/1fM_WbCpV8nA3IHxN8K2AfRbV44FP4RuAgSaFE-zbifw/edit#gid=1966139455

Day 3 January 13 (11am– 2pmEST)

Welcome and Introductions Erika Machtinger (Chair)

Industry perspectives *(Led by Machtinger and admin/industry representatives)*

Project Coordination

As a group, identify and develop collaborative efforts related to objective goals.

Business Meeting

- Old business
- New Business
 - a. Vice-chair
 - b. Selection of 2023 meeting location

5-year plan

- Identify and develop collaborative projects that will advance sub-objectives
- Assess funding opportunities