Adult Black Fly Holding Container Construction

The University of Georgia Black Fly Research and Resource Center 110 Riverbend Road, Riverbend Research Laboratory North, Room 114

<u>Purpose</u>: Describe the technique used to construct adult holding containers from pint, paper cans at the University of Georgia Black Fly Research and Resource Center (BFR2).

Materials

- 473 ml, cylindrical paper cans
- Dental dam
- Nylon screen
- Duct tape
- Hot glue
- Utility knife

<u>Procedure</u>: All materials used in this protocol are stored in the boxes of paper cans on the north wall of lab 149

- Modifying the paper cans begins with pushing the paper center out of the top, cutting a piece of nylon screen of the same diameter and securely attaching the screen with the hot glue
- To initiate the entry port, cut a 2.5 x 2.5 cm square in the center of one side of the container
- Cut two, 3.5 x 3.5 cm pieces of dental dam
- Cut a 2.5 cm slit in the center of each square of dental dam
- The two squares of dental dam are attached over the square that was cut in the side of the container such that the slits are at 90 degrees from each other
- Securely attach the squares to the adult container with strips of duct (Fig. 1)

Resource References

- 473 ml, cylindrical paper cans, All Purpose, Liquid Tight Paper Food Containers, Neptune Paper Products Company, Inc., Newark, NJ 07102, sold by SSWLE Corporation, 168 W86th St., New York, NY 10024, (917-575-2788)
- Dental dam, Colteen Whaledent, 750 Corporate Dr., Mahwah, NJ 07430 (800-221-3046), Catalog #H00540 (dark colored, heavy gauge)
- Nylon screen, Nitex Brand, 600 micron, 245 micron thread diameter, 50.5% open area, Small Parts, 15901 SW 29th Street, Suite 201 Miramar, FL 33027 (800-220-4242)

References

Gray, E. W. and Noblet, R. 2014. Black Fly Rearing and Use in Laboratory Bioassays. In Maramorosch K. and Mahmood F. eds. Rearing Animal and Plant Pathogen Vectors. CRC Press, Boca Raton, FL. pp.42-72

Bernardo, M. J., E. W. Cupp and A. E. Kiszewski. 1986. Rearing Black Flies (Diptera: Simuliidae) in the Laboratory: Colonization and Life Table Statistics for *Simulium vittatum*. Ann. Entomol. Soc. Am. 79:610-621.



Figure 1. Adult storage container