

*Study Information Sheet *
Farmer Consultations

Development of species-specific yeast RNAi attractive targeted sugar baits for spotted wing *Drosophila* control

You are invited to participate in a stakeholder engagement study about the use of yeast attractive targeted sugar baits (ATSBs) to control spotted wing *Drosophila* (SWD). Our research project examines new ways of controlling SWD. A new insecticide developed using RNAi technology promises to silence particular genes essential for SWD survival without impacting plants and any other animals.

This study is being conducted by Dr. Molly Duman Scheel and Dr. Keshava Mysore of Indiana University School of Medicine, South Bend, Indiana. You are invited to participate in this study because you are an adult farmer. If you have any questions about this study, please contact Dr. Molly Duman Scheel at (574) 631-7194 or mscheel@nd.edu. For questions about your rights as a research participant, to discuss problems, complaints, or concerns about a research study, to obtain information, or offer input, contact the Indiana University Human Subjects Office at 317-278-3458.

During our discussions, we will ask you about how SWD is impacting your farm, and we will discuss the RNAi-yeast insecticides we are testing. As our research project pursues new ways of targeting SWD, it is very important for us to consult with farmers in regions where the new intervention may one day be used. We hope to learn about your thoughts, feelings, and opinions regarding the use of this means of control.

Participation in this study is voluntary and you may choose to withdraw at any time. We would like to visit your farm twice, for ~2-3 hours per visit, during which time we hope to learn if and how this insect affects you. During the visit, we would also tell you about the new tools we are developing to control this pest and get your feedback, both positive and negative, regarding our research and any suggestions for improvement of this technology. We may occasionally contact you by phone or email to seek your input on questions that emerge during the course of our research. We anticipate that this would consist of two or three 15 minute interactions.

There is no known risk associated with participating in this study. You may learn more about the development of new technologies for controlling SWD and have input into the design of this technology, but there are no immediate direct benefits for participating other than the \$500 compensation you will receive for your consulting services. If you have any concerns about the risks/benefits of participating in this study, you can contact Molly Scheel and/or the Indiana University IRB at irb@iu.edu.

Your name and the name of your farm will not be used in the reporting of information in publications or conference presentations.

Thank you for agreeing to participate in our research project. If you would like to continue, before we begin, please note that this study is for farmers and other individuals associated with the agricultural industry aged 18 or older; if you are not associated with farming or are under the age of 18, please do not participate. By continuing, you are affirming that you are age 18, have a job associated with the agricultural industry, and that you are willing to participate.

Farmer Consultant Interview Question Bank

1. Is SWD a problem on your farm?
2. Do you pursue SWD surveillance?
3. (How) are you presently controlling SWD?
4. Are you concerned about insecticide resistance in SWD?
5. Are you concerned about the impact of traditional SWD pesticides on non-target organisms?
6. Do you have any concerns about the safety of these traditional SWD insecticides for humans?
3. Do you think yeast ATSBs would work for SWD control?
4. Would you be willing to use yeast ATSB insecticides?
7. Is there anything about yeast ATSBs that you particularly like?
8. Is there anything about yeast ATSBs that you did not particularly like?
9. When you think about choosing among product options for SWD control on your property, which factors are most important to you?
10. Is there anything else that you would like to tell us about the technology we are testing?
11. Your advice helps us improve our approaches. Do you have any suggestions on ways to improve this new SWD control technique?

Farmer Consultant Demographic Information Sheet (Optional)

1. What is your role?

Farm Owner	
Farmer	
Staff	
Other	

2. My farm grows

Cherries	
Grapes	
Blueberries	
Strawberries	
Raspberries or other berries	
Apples, pears, or other tree fruits	
Other	
Not applicable to me	

3. What is your age in years?

18-19	
20-29	
30-39	
40-49	
50-59	
60 or over	

4. What is your gender?

Male	
Female	
Other	
Prefer not to say	

5. How would you best describe yourself?

White	
Black or African-American	
American Indian or Alaska Native	
Native Hawaiian or Other Pacific Islander	
Asian	
Other	
Prefer not to say	

4. Are you Hispanic or Latino?

Yes	
No	
Prefer not to say	

5. Indicate the highest level of formal education you completed or in which you are currently enrolled.

Graduate school	
College	
High school	
Associate's degree	
Vocational school	
Grades 1-8	
No formal education	
Prefer not to answer	