

## **Insect Containment Accreditation Meeting**

The Foundation for the National Institutes of Health  
11400 Rockville Pike, Suite 600, North Bethesda, MD 20852

December 6-7, 2018

**Objective:** Assess the feasibility of and requirements for an insectary accreditation service.

Because insects continue to threaten public health and to consume 20% of the crops grown worldwide insect research on both pest and beneficial insects remains essential. Advances in our abilities to manipulate insect genomes and the development of new insect genetic technologies coupled with the widespread availability of insect genome sequence information are resulting in frequent creation of genetically modified (GM) insects for the purposes of basic research and for developing new insect management approaches. Institutional biosafety officials and their biosafety committees are increasingly being asked to assess risks and recommend containment requirements for GM insects of agricultural and public health significance. New and unfamiliar technologies such as gene drive present unique challenges to those responsible for institutional biosafety. A recent needs assessment among biosafety professionals at institutions with insects and GM insects suggested that current risk and containment guidance for GM insects and GM-gene drive insects are inadequate resulting in much uncertainty around decisions. There are institutional, public health and economic implications associated with escaped GM insects. A third-party insectary and insectary management accreditation entity with a concentration of expertise could support the efforts of institutional officials in a manner similar to the way AAALAC International supports institutional animal care and use activities. By convening stake holders and experts, the viability of the concept of a neutral 3<sup>rd</sup>-party insectary accreditation body will be tested and explored. By the end of this conference critical elements of an accreditation body will be identified, and a roadmap for the creation of a 3<sup>rd</sup> party insectary accreditation entity will be in place

**Outcomes:** An actionable plan for the creation, hosting and operation of an insectary accreditation service with identification of significant risks and challenges.

**Next Steps:** Identification of potential partners to host the service; write proposals for funding to support the work specified in action-plan.

With good data indicating the needs, and input from stakeholders and experts concerning how such an entity might function, how it might be organized and how it could provide value, it will be possible to identify a partner organization to host the entity and to raise funds to support start-up costs

**Thursday December 6, 2018**

<b>Start</b>	<b>End</b>	<b>Presenter</b>	<b>Topic</b>
8:00	8:30		BREAKFAST at FNIH
8:30	9:00	<i>O'Brochta</i>	Welcome; Introductions; Review Objectives, Brief Background
9:00	9:30	<i>Tucker &amp; Costero</i>	NIH Guidelines
9:30	10:00	<i>Knolhoff + other APHIS reps</i>	APHIS regs, guidelines
10:00	10:30	<i>Benedict</i>	Arthropod Containment Guidelines v1, v2,
10:30	11:00	<i>Quinlan</i>	European Guidelines, Regulations
11:00	11:15		COFFEE
11:15	11:45	<i>Higgs</i>	Experiences at K State Biosecurity Research Institute
11:45	12:15	<i>Dotson</i>	Experiences at CDC MR4
12:15	12:45		LUNCH on site
1:00	1:45	<i>Atkinson</i>	Experiences at UCR - Quarantine vs Arthropod Containment Guidelines
1:45	2:15	<i>Adelman</i>	Experiences at Texas A & M, Gene drive mosquitoes
2:15	2:45	<i>Molaro &amp; Muller</i>	Experiences in Italy - Gene drive mosquitoes
2:45	3:15	<i>Coulibaly &amp; Quinlan &amp; Benedict</i>	Experiences in Mali, Burkina Faso, Uganda - GM and Gene drive mosquitoes
3:15	3:45	<i>O'Brochta facilitates</i>	Open Discussion
3:45	4:00		COFFEE
4:00	5:00	<i>Zimmerman, Ellis, Bohn, Ladd</i>	Experience of biosafety experts
5:00	5:30	<i>O'Brochta</i>	Review Results of FNIH/ABSA Survey
5:30	6:00		FREE
6:00	8:00		GROUP DINNER - Local Restaurant

**Friday December 7, 2018**

<b>Start</b>	<b>End</b>	<b>Presenter</b>	<b>Topic</b>
8:00	8:30		BREAKFAST at FNIH
8:30	8:45	<i>O'Brochta</i>	Intro to Day 2 - Objectives
8:45	9:15	<i>Ellis</i>	ABSA International - Lab Accreditation Services
9:15	10:00	<i>Borkowski</i>	AAALAC International - Animal Care and Use Accreditation Services
10:00	11:00	<i>GROUP DISCUSSION</i>	Discuss Concept of GM Insect Containment/Insectary Management Accreditation
11:00	11:15		COFFEE
11:15	11:45	<i>Tucker, Costero, Knolhoff + other APHIS</i>	View of Concept of GM Insect Containment/Insectary Management Accreditation - NIH USDA
11:45	1:00	<i>GROUP DISCUSSION</i>	Structural Aspects of a 3rd party accreditation entity -
1:00	1:45		LUNCH on site

1:45	2:45	<i>O'Brochta facilitates</i>	Plan Creation of Hypothetical GM Insect Containment/Insectary Management Accreditation Entity
2:45	3:00		COFFEE
3:00	4:30	<i>O'Brochta facilitates</i>	Finalize Plan for Creation of Hypothetical GM Insect Containment/Insectary Management Accreditation Entity
4:30			END