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**Developing a Consensus Pathway for Field Testing of  
Modified Mosquitoes with Driving Transgenes**

**July 11-13, 2017**

**Mövenpick Hotel & Casino, Geneva, Switzerland**

**Objective of Gene Drive Workshop III**: The working group will consider the implications of low threshold gene drive, such as that mediated by CRISPR/Cas, on the phased testing pathway described in the WHO Guidance Framework for Testing of Genetically Modified Mosquitoes. The third workshop will address the final phase of the testing pathway encompassing surveillance and monitoring of field release of genetically modified *Anopheles gambiae* with driving transgenes (Phase 4 post implementation). The work will culminate in recommendations that extend and augment those published in the WHO Guidance Framework.

**Workshop Co-Chairs:** Charles Godfray and Yeya Toure

**Meeting room:** **Mövenpick Hotel & Casino Geneva**

**DRAFT Agenda**

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| **Day 1: Tuesday, July 11, 2017** | | |
|  | *Registration* | |
| 9:00 – 9:30 | **Welcome and remarks** | WHO |
| 9:30 – 10:00 | **Welcome, overall project goals and introductions** | Stephanie James |
| 10:00 – 10:30 | **Review of the WHO Guidance Framework: Phases 1-4** | Yeya Toure |
| 10:30 – 11:00 | *Coffee/tea break* |  |
| 11:00 – 11:45 | **Gene drive for malaria control: thoughts on moving from lab to field** | Austin Burt |
| 11:45 – 12:30 | **Mosquito population alteration, gene drive and the malaria eradication agenda** | Anthony James (via teleconference) |
| 12:30 – 13:30 | *Lunch* | |
| 13:30 – 14:30 | **Recommendations from Workshops I and II: Phase 1 (laboratory studies), Phase 2 (physically confined studies), Phase 2 (ecologically confined studies) and Phase 3 (staged open releases)** | Brian Greenwood  Charles Mbogo  Fredros Okumu  Hector Quemada |
| 14:30 – 17:30 | **General discussion of Workshops I and II topics** *Discussion Lead: Stephanie James*  *Moderators: Fredros Okumu and Hector Quemada (Workshop I co-chairs) and Brian Greenwood and Charles Mbogo (Workshop II co-chairs)*  *(15:00 – 15:30 Coffee/tea break)* | |
| 18:30 | *Group Dinner location TBD* | |

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| **Day 2: Wednesday, July 12, 2017** | | |
| 9:00 – 9:45 | **The role of gene drive mosquitoes in malaria elimination** | Philip Eckhoff |
| 9:45 – 10:30 | **M&E for current vector control** | Charles Mbogo |
| 10:30 – 11:00 | *Break* | |
| 11:00 – 11:30 | **Surveillance considerations for GM crops** | Hector Quemada and Moussa Savadogo |
| 11:30 – 12:00 | **Potential efficacy scenarios** | Charles Godfray |
| 12:00 – 13:00 | *Lunch* | |
| 13:00 – 18:30 | **Considerations for Phase 4 – Post implementation** *Moderator: Steve Lindsay*   1. What factors influence a decision to implement gene drive mosquitoes as a public health tool? 2. What level of ongoing monitoring and surveillance is required in Phase 4?   *Moderator: Fred Gould*   1. What level of monitoring for ecosystem changes is required in Phase 4? 2. How long is monitoring required and over what area?   *Moderator: Jo Lines*   1. What are the ongoing management requirements in Phase 4? 2. How can necessary monitoring be managed cost-effectively at a regional/multinational scale? 3. Who is responsible for the conduct and cost of ongoing monitoring and surveillance activities in Phase 4? 4. What management steps are feasible if issues arise? 5. What engagement activities are relevant in Phase 4? *(15:00 – 15:30 Coffee/tea break)* | |
|  | *Dinner on your own* | |
| **Day 3: Thursday, July 13, 2017** | | |
| 9:00 – 10:00 | **Review outcomes of Phase 4 discussion**  Points of agreement, differences, and unresolved issues  *Moderators: Charles Godfray and Yeya Toure* | |
| 10:00 – 10:30 | **FNIH Next steps – Report** Writing, reviews, submission | Stephanie James |
| 10:30 – 11:00 | *Break* | |
| 11:00 – 12:00 | **WHO Next steps** | WHO |
|  | Adjourn |  |