



18 February, 2019

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# New Tools, New Challenges in Vector Control

RBM VCWG Meeting  
30 January – 1 February, 2019

## Workstream session objectives

1. Report back on 2018 workplan activities
2. Share information about emerging challenges from country programs
3. Share information about vector control innovations
4. Discuss roadmaps for new tools and the role for NTNC
5. Brainstorm the 2019 workplan

# 1. Report back on 2018 workplan activities (1/2)

## Improving mosquito identification

- Updates to *Anopheles* keys for sub-Saharan Africa – Basil Brooke and Maureen Coetzee
  - Feedback requested from Maureen
  - Recommendation for illustrations
- Protocol for associating morphological ID with genetic sequencing – Neil Lobo and Seth Irish
  - Ongoing work, collaboration welcome
  - Will connect with WHO GMP VC Team to incorporate into the revisions to the 1975 practical entomology guide
  - Can incorporate samples and analysis from PAMCA project (below)
- PAMCA-Wellcome Sanger Institute genomics project – Alistair Miles and Prosper Chaki
- LabDisk automatic diagnostic platform for *Anopheles* – Nadja Wipf

# 1. Report back on 2018 workplan activities (2/2)

## Residual malaria transmission

- Revised definition into WHO Malaria Terminology – Tessa Knox
- Measuring and characterizing the association between human and vector behavior – April Monroe
- Developing an approach for measuring and characterizing RMT – April Monroe, Fredros Okumu, and Florence Fouque

## Consolidating evidence on the vector control toolbox

- Systematic review completed and published – Yasmin Williams, Lucy Tusting, Fredros Okumu, Allison Tatarsky
  - Williams YA, Tusting LS, et al. Expanding the Vector Control Toolbox for Malaria Elimination: A Systematic Review of the Evidence. *Advances in Parasitology*, 2018, 99:345-379.

## 2. Share information about emerging challenges from NMCPs

Transmission and control of *Plasmodium knowlesi*

- Experience from Malaysia – Christina Rundi

### 3. Share information about vector control innovations

#### Genetic control

- Oxitec 2<sup>nd</sup> generation mosquito (self limiting system) – Enca Martin-Rendon
- Target Malaria (gene drive population suppression) – Abdoulaye Diabate
- Transmission Zero (gene drive population replacement) – George Christophides
- UCI Malaria Initiative (gene drive population replacement) – Rebeca Carballer and Anthony James

## 4. Discuss roadmaps for new tools and the role for NTNC

Roadmaps for new vector control tools and paradigms

- Bite prevention – Jason Richardson and Sarah Moore
- Ivermectin – Carlos Chaccour and Regina Rabinovich

## 5. Brainstorm the 2019 workplan and next steps

- Continuation of ongoing workplan projects (mosquito ID and residual malaria transmission activities)
- Consideration of the role of the NTNC in consolidating and/or tracking roadmaps on new tools and paradigms
- Will circulate a survey to the RBM VCWG to determine workplan priorities for 2019
  - To help determine focus and priorities
  - To incorporate more input from NMCPs
- Call for volunteers for new co-chair; Fredros will be “retiring!”