



# Partnership To End Malaria







**Partnership**  
To End Malaria

22 February, 2018

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# VCWG IRS/IRM Priorities Work Stream meeting 2018

# IRS/IRM Work Stream Overview

- Alistair Miles – MalariaGen, Anopheles 1000 genome project, key findings
  - “Insecticides are putting a strong selection pressure on the Anopheles genome”
  - Phase I of project published, Phases II and III (>3000 genomes) in progress
  - MalariaGen Vector Observatory – 30,000 genomes
  - Potentially used to monitor the impact of VC interventions on the An. genome
    - Can this be used to evaluate impact of different IRM programmes?
- “It turns the light on”

# IRS/IRM Work Stream Overview

- Ian Hastings and Andy South –Evolution of insecticide resistance under sequences, mixtures and rotations.  
Narrowing the gap between models and data
  - Modelling can promote discussion and understanding but not yet sufficiently robust to offer operational guidance
  - Models suggest that highly effective insecticides and low exposure favour mixtures over sequences
  - We have, so far, found rotations and sequential deployment give similar times-to-resistance
  - Model user interfaces are available online for people to experiment with and provide feedback
  - <https://andysouth.shinyapps.io/resistrot/>

# IRS/IRM Work Stream Overview

- Allan Were Practical application of GPIRM recommendations in IRS programs: insecticide rotations – on behalf of Bradford Lucas
- We now have the opportunity to introduce IRM, with the introductions of products from a new (to VC) mode of action class
- Need to plan for the pre-emptive rotations with the new MoA class to minimise “chaos”, whilst maintaining a market structure that encourages the producers to remain in the market
- Clear advice on use in IRM programmes to prevent resistance to new molecules.

# IRS/IRM Work Stream Overview

- Claire Durot –Update from the Worldwide Insecticide Resistance Network (WIN)

<https://win-network.ird.fr/>

The screenshot shows the homepage of the Worldwide Insecticide Resistance Network (WIN). At the top left is the WIN logo, a globe with a mosquito and the text 'WORLDWIDE INSECTICIDE RESISTANCE NETWORK WIN'. To its right is the title 'The Worldwide Insecticide resistance Network'. Further right are logos for IRD (Institut de Recherche pour le Développement), CNRS, and the World Health Organization (WHO) TDR (Technical Support Unit for Research on Diseases of Poverty). Below the logos is a search bar with the text 'Search in the website' and an 'OK' button. The main content area starts with 'You are here: WIN network'. On the left is a navigation menu with links for News!, Events, About us, Who we are, What we do, Partnership, and Resources & information. The main text area features a heading 'The Worldwide Insecticide resistance Network...' followed by a paragraph: '...proposes to bring together 19 internationally recognized institutions in vector research, providing a unique framework for tracking insecticide resistance in mosquito vectors of arboviruses around the world. The network aims at identifying the particular countries/regions where resistance could challenge vector control interventions and to provide the WHO and member states with key recommendations for improvement of insecticide resistance surveillance and deployment of alternative vector control tools.' Below this text is a world map with red dots indicating member countries. On the right is a 'All the news...' section with a television icon, an 'Add RSS feed' button, and three news items: '[We need you] Call for papers' (December 2017), '[Key Fact] The 7th SOVE International Congress' (October 2017), and '[Read] WIN first commissioned review just published' (July 2017). A 'News!' link is at the bottom right of the news section.



# IRS/IRM Work Stream Overview

- David McGuire – NGenIRS – update on activities and progress
  - Contributed to the reversal of an IRS market that had been in decline since 2011.
  - Increased affordability of 3GIRS through co-payment mechanism has allowed programmes to procure more products and increase coverage
  - Facilitated introduction of 2nd 3GIRS (new mode of action) with co-payment support to be sprayed in 7 countries in 2018, and in the process of planning for at least one more product by the end of 2018
  - On track to establish competitive, growing and sustainable market for 3GIRS at affordable prices that will allow programmes to implement effective IRM

# IRS/IRM Work Stream Activities

- IRM 'MOOC'
- Progress:
  - Slow start
  - Outline of course developed
  - Some presenters in place
  - Funding being sought
  - You will hear more in the coming months



# IRS/IRM Work Stream Activities

- Vector Learning Exchange
- Excellent source of knowledge and information  
[www.vectorlearningxchange.com](http://www.vectorlearningxchange.com)

The screenshot displays the Vector Learning Exchange website. At the top, the logo "Vector LearningXchange" is visible on the left, and a language dropdown menu set to "English" is on the right. Below the logo, a navigation bar contains links for "About Us", "Resources", "Country Spotlight", "Fact Sheets", "Videos", "Discussions", and "Events". A search bar is located on the right side of the navigation bar. The main content area features a "RESOURCES" section with a paragraph of text: "Explore a growing collection of resources for guidance on specific vector control approaches. Resources include training curricula, toolkits, guides and job aids that provide step-by-step instructions on how to perform core vector control tasks. To find a specific resource, search using the categories below. You can also find information on insecticide resistance at the IR Mapper, which consolidates reports of insecticide resistance in *Anopheles* species, *Aedes aegypti* and *Aedes albopictus*." Below this is a "JOB AIDS" section with three image thumbnails. The first thumbnail is titled "Spray Operator Pocket Guide" (January 2014) and shows a person in protective gear spraying a building. The second is "AIRS IRS Storekeeper Pocket Guide" (August 2013) showing a person in protective gear holding a clipboard. The third is "IRS Team Leader Guide" (June 2014) showing two people in protective gear.

# IRS/IRM Work Stream Activities

- Please take advantage of this resource and help it grow
- Why not add your thoughts on this meeting to the discussion forum?

[www.vectorlearningxchange.com](http://www.vectorlearningxchange.com)

The screenshot shows the Vector LearningXchange website. The header includes the site name and navigation links for Contact, Join, About Us, Resources, Country Spotlight, Fact Sheets, Videos, Discussions, and Events. The main content area is divided into two sections: a login form on the left and a discussions forum on the right.

**LOGIN**

Username \*  
Mark

Password \*  
••••••

Remember Me

Login

Forgot password?  
Not a Member? Create Account

**DISCUSSIONS**

Discussions

Topic	Voices	Posts
<b>March 6th Webinar: Gender: Safe Working Environments and Opportunities for Women</b> Started by: Leah Taub	1	1
<b>RBM VCWG meeting Geneva February 2018</b> Started by: Mark Hoppe	1	1

You must be logged in to create new topics.

# IRS/IRM Work Stream 2018 Activities

- IRM 'MOOC'
  - Large piece of work
    - Please support as much as you can
- Vector Learning Exchange
  - Lets turn this from a great platform to a living resource

# IRS/IRM Work Stream 2018 Activities

- Opportunities offered by new molecular tools to improve our understanding of the impact of VC and IRM on the mosquitoes
- If the lights have been turned on, what can we do now that we can see better?
- Can we support ongoing activities in this area?