

IRAC Core Activity Groups

**45th Meeting of IRAC International, Washington DC,
USA**

April 26th – April 29th, 2010

Public Health, Biotech & Crop Protection

Session 3

International Working Group & Country Group Review
45th Meeting of IRAC International, Washington DC, USA

Wednesday - April 28th, 2010

Brief Public Health Update

Mark Hoppé





Team Members

Insecticide Resistance Action Committee

Chair:	Mark Hoppé	Syngenta
Deputy chair:	Vacant	
Members:		
	Alan Porter	APA
	Thomas Anderson	FMC
	James Austin	BASF
	Luigi Avella	Chemtura
	Georgina Bingham	Vestergaard Frandsen
	Karin Horn	Bayer Crop Science
	John Invest	Sumitomo chemical UK
	Chris Longhurst	Dow
	John Lucas	Sumitomo chemical UK
	Ralf Nauen	Bayer Crop Science
	Helen Pates Jamet	Vestergaard Frandsen
Non industry observers:		
	Kate Aultman	BMGF
	Jo Lines	WHO
	Bob Wirtz	CDC

There have been no major changes to the PH teams membership during 2010, although we welcomed Georgina Bingham to the team who represents Vestergaard Frandsen



■ Educational:

- The PH team was asked to present a paper entitled “Integrated Resistance Management in the control of disease transmitting mosquitoes” at the Pan African Malaria Vector Control Conference in Zanzibar. This was a great opportunity to present the IRAC message on IRM to a large number of regional and global experts and decision makers from the vector control community.
- The PH team also had the opportunity to make a presentation at the MIM (Multilateral Initiative on Malaria) conference in Nairobi, where Karin Introduced the work of IRAC.
- Both presentations were well received.



- WHO Insecticide Resistance Project:
 - The WHO started a major project to evaluate the development and impact of insecticide resistance on mosquito control and malaria.
 - This project received a multi-million dollar grant from the Gates Foundation and will last 5 years and will be undertaken in 5 malaria endemic countries.
 - The IRAC PH team acted as a temporary expert advisor to this project, and has a seat on the project steering committee.
 - After some initial activity during the first half of 2009, this project has gone quiet as the studies are started. Further involvement is expected during 2010.



■ Vector manual:

- Significant progress has been made in updating and re-focussing the VM.
- A meeting in London was held to agree the text and to ensure that current best practice advice is given.
- The VM is 90% finished with only a few diagrams and minor sections of text outstanding.
- Additions to the v 2 include a greater emphasis on molecular aspects of resistance monitoring, simplified text, synergists, flow diagrams and decision trees, and the inclusion of a glossary.
- Assistance with layout and publishing are being sought

■ Vector manual:

- During the editing of the VM, two further educational concepts were identified:
 - A much shorter version of the VM designed for programme supervisors and operators, rather than programme managers.
 - A series of flow charts and decision making tools available to programme managers and supervisors to give rapid indication of a course of action. E.g. if the expected level of control is not achieved, what steps should be taken to identify the cause.
- These will be proposed as actions for 2010



- Discriminating dose position paper:
 - Work on the DD paper has been somewhat de-prioritised this year and needs to be re-invigorated during 2010

- ASTMH Symposium:
 - The ASTMH meeting in Atlanta during October 2010 has been identified as one of the major PH related conferences this year. The IRAC PH team has proposed a symposium on insecticide resistance with some of the leading academics in the field agreeing (in principle) to attend. Accepted symposia will be communicated by the end of April.



Some members of the IRAC PH team during the London F2F meeting hosted by Sumitomo Chemical UK, December 2009



Goals & SMART Objectives 2010/11

Insecticide Resistance Action Committee

Goals	Objectives	Timeline
Identify potential, new or existing resistance issues. Set up Team Working Groups or Focal Points as necessary	Monitor and report to the Executive on any potential, new or existing national, regional or global resistance issues that could require action by IRAC e.g. Vectors and Hygiene Pests. Research the issues and report to the Executive on a recommended plan of action including the extent of the problem and whether and how it should be best tackled. Set up appropriate PH Team WGs as deemed appropriate for the 2010/11 year. Each WG should set up their own goals and SMART objectives.	Ongoing
Provide expert input into IRM initiatives with identified partners.	Set up a schedule of IRAC PH Team conference calls, meetings for 2010/11. Identify and invite relevant experts and observers from groups interested in Public Health IRM e.g vectors, hygiene pests (WHO, Gates Foundation, IVCC) to participate and ensure that IRAC as an expert group provided input into relevant IRM initiatives. e.g. WHO proposal to Gates Foundation. Maintain, and build on, the role of Liaison Officers to report back to the Public Health Team on the activities of other groups active in the area	Ongoing



Goals & SMART Objectives 2010/11

Insecticide Resistance Action Committee

Goals	Objectives	Timeline
Preparation of Public Health communication material	Complete and produce VM in time for launch at ASTMH in November Produce a cut-down version for use by technicians Produce decision trees/charts for use by technicians	October 2010
Develop IRAC methods for the housefly and mosquito	Provide approved methods for monitoring the susceptibility of mosquitoes and houseflies to the IRAC methods team. To be undertaken in conjunction with appropriate third parties, e.g. CDC, WHO	
Develop a position paper on WHOPES discriminating rates	In conjunction with appropriate experts, make recommendations on relevant discriminating doses to identify insecticide resistance in key species of adult mosquito. Produce an IRAC PH team position paper to communicate the team's view on discriminating doses to interested third parties.	End Q2 2010
Organise insecticide resistance symposium at the ASTMH 2010 conference	Invite speakers and coordinate symposium to promote best practice IRM in the context of IVM. Launch VM, possible at separate event during the ASTMH event.	October 2010