Accelerating Innovation in Vector Control for Malaria and NTDs

19th February 2014
Framing the Vector Control Challenge

“If nothing is done and insecticide resistance leads to widespread failure of pyrethroids, the public health consequences would be devastating”

GPIRM, 2012

“...the market does not drive the scientists, the communicators, the thinkers, the governments to do the right things. And only by paying attention to these things and having brilliant people who care and draw other people in can we make as much progress as we need to...”

Bill Gates, Ted Talks 2009
Why IVCC Exists

Innovative vector control tools and technologies that address resistance and performance

Rapid development time and quick to market

Low cost for end users

Effective market delivery and access

Public Health Needs

Barriers to Innovation in Vector Control

Small and unpredictable market

High cost of entry

Low profit

Significant additional regulatory hurdles

High risk (safety)

Slow to market

Price vs. Performance
Innovative Vector Control Consortium
IVCC Formed in 2005 to Meet the Challenge of Innovation in Vector Control

IVCC is a Product Development Partnership investing donor funds in R&D to overcome barriers to innovation in vector control

Not for Profit Company and Charity
Preparing for Market

4.5 million compounds data-mined, 100,000 primary screened, 24,000 secondary screened, >8 novel classes identified, 3 to select for development

Bayer
Syngenta
Sumitomo
Company X
BASF and Dupont
Dow

Communications
Market Delivery and Access
Outcome Modelling
Project Management

Portfolio Selection
Expertise
Costs
Funding
Time to Market

Product pipeline

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Vector Control Beyond New Chemistry

- **Technologies in Scope**
- **Coordinate / accelerate introduction of new VC tools**
- **Recommendations for funding/support**
- **Access to world class resources.**
- **Encourage a vibrant marketplace for ideas**
- **Gap analysis**
- **Innovation landscape mapping**
- **Reality Check**

Mentoring
- Strategy and Business
- Pragmatic delivery
- Target Product Profiling
- Framework
- Time to Market
- Legal / IP
- Market Knowledge
- Financial Risk
Challenge: Which New Insecticide Classes? Science and Art!

- Efficacy
- Speed of action
- Toxicology
- Environmental tox
- COGS
- End user cost
- Potential in Agriculture
- Potential in Animal Health
- Potential in Consumer
- Potential in Public Health
- CSR Value / ROI
- LLIN vs. IRS Potential
- Development cost
- Partner commitment
- Partner access to VC market
- Restriction of ag. uses
- Stewardship

Compound A
Compound B
Compound C
Re-engineering Vector Control?

$$ Millions over several decades have been spent understanding the science of vector control and resistance management. Can we use this collective knowledge to optimise the delivery and performance of new products through global partnership and cooperation?

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Thank You