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

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

Developing Products Through Partnerships
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
IVCC Funding

2012

2013

2014

IVCC; VCWG February 2014
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 Public Health
- Potential in Consumer
- LLIN vs. IRS Potential
- Development cost
- Partner commitment
- Partner access to VC market
- Restriction of ag. uses
- Stewardship
- CSR Value / ROI

IVCC; VCWG February 2014
Re-engineering Vector Control?

$$\text{Millions over several decades have been spent understanding the science of vector control and resistance management.}$$

Can we use this collective knowledge to optimise the delivery and performance of new products through global partnership and cooperation?

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<tr>
<th>IVCC</th>
<th>Strengthen the Access component of its mission</th>
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<tr>
<td></td>
<td>Lead the creation of a Stakeholder Alliance</td>
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<td>Deliver flexible long term funding models</td>
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<td><strong>Intervention Funders</strong></td>
<td>Support capacity development</td>
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<td>Monitoring and Diagnostics support</td>
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<td><strong>Regulators</strong></td>
<td>Harmonize and accelerate regulation</td>
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<td><strong>Innovation Funders</strong></td>
<td>Deliver the necessary funding pipeline</td>
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<td><strong>WHO</strong></td>
<td>Streamline quality assurance process</td>
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<td><strong>Countries</strong></td>
<td>Quality IRM</td>
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<td>Commitment and resource allocation</td>
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<td><strong>Industry</strong></td>
<td>Collaborate on management of AIs in selected PH markets</td>
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<td>Accept long term market predictability in exchange for short term gains</td>
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Thank You