



Swiss TPH



RBM VCWG MOOC: Massive Open Online Course on “The Resistant Mosquito: Staying Ahead of the Game in the Fight against Malaria”

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Tuesday 15 November 2022

Massive Open Online Course launch on 25 July 2022

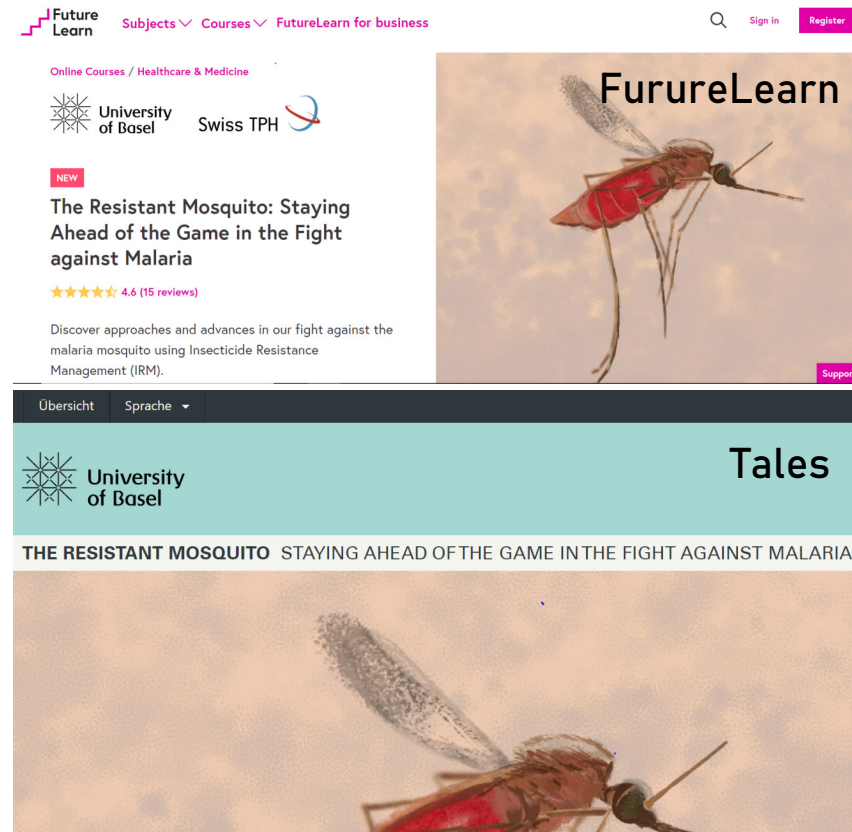
The Resistant Mosquito: Staying Ahead of the Game in the Fight against Malaria

- Free participation
- Duration: 3 weeks
- Weekly study 2 hours, 100% online

- Starting date: Monday 25 July 2022
- On FutureLearn & Tales platforms

- 42 steps (16 videos, 19 articles, 3 quizzes, 4 discussions, activities)
- Case studies from Ghana, Tanzania, Zambia, Sri Lanka.

- Trailer (2 min 39 sec) on YouTube
<https://www.youtube.com/watch?v=ZrsRrWyY184>



The screenshot shows the FutureLearn course page. At the top, there is a navigation bar with 'Future Learn' logo, 'Subjects', 'Courses', and 'FutureLearn for business'. A search icon, 'Sign In', and 'Register' button are also present. Below the navigation, the course title 'The Resistant Mosquito: Staying Ahead of the Game in the Fight against Malaria' is displayed, along with a 'NEW' badge and a 4.6 star rating from 15 reviews. A brief description follows: 'Discover approaches and advances in our fight against the malaria mosquito using Insecticide Resistance Management (IRM)'. To the right, there is a large image of a mosquito with the text 'FurureLearn' overlaid. Below the course title, there is a 'Tales' section header with the University of Basel logo and the course title 'THE RESISTANT MOSQUITO STAYING AHEAD OF THE GAME IN THE FIGHT AGAINST MALARIA'. A large image of a mosquito is also visible in this section.

Innovative didactic approach

- 'Story' based around the setting of a fictional, but typical, African village – 'Nsuhyia'
- Animations
- Zoom recording used in place of video, as needed



Nsuhyia village, the name is also fictional 😊

Lead Educators

- Invite Dr Keziah Malm (National Malaria Control Programme, Ghana) & Dr Fredros Okumu (Ifakara Health Institute, Tanzania)
- West & East Africa join forces (concept of capacity building, equity)
- Create their avatars!



Example imagery



Contributors



30 Contributors from 11 countries

7 'Southern hemisphere' countries
4 'Northern hemisphere' countries

♀ 13

♂ 17

Filming in Basel & Tanzania- next stop Hollywood



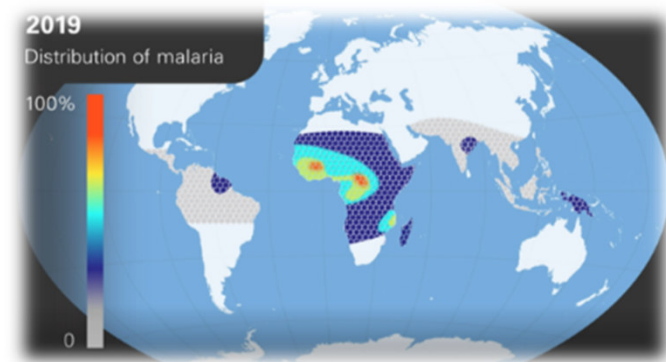
To find answers, we need to explore malaria vector control from different perspectives.



To illustrate in-the-field strategies and the benefits of fighting insecticide resistance.

Course structure

- Week 1. 14 steps
 - Introduction to
 - Vector borne disease – malaria
 - Mosquitoes as vectors
 - Historical success of insecticides for control of VBD
 - How insecticides ‘work’
 - Insecticide resistance, and lessons from the past



Course structure

- Week 2. 15 steps
 - VBD, the Global response
 - The value of Insecticide Resistance Management, and insecticide susceptibility
 - Insecticide resistance mechanisms
 - Insecticide resistance evolution, selection and spread
 - Sources of selection
 - Consequences and impact of vector control failure
 - Insecticide resistance, monitoring and characterisation
 - Value of sharing information, maps, etc.



Course structure

- Week 3. 13 steps
 - IRM, theory and practice
 - Integrated Vector Management and Integrated Vector Control
 - Differentiated to better align with WHO definitions
 - Wholistic approach to VC
 - Malaria elimination, examples from Sri Lanka, and vision for Zambia
- Throughout course
 - Recommendation to use 'Resistance 101' serious game
 - Case studies
 - Interactive discussions - moderated

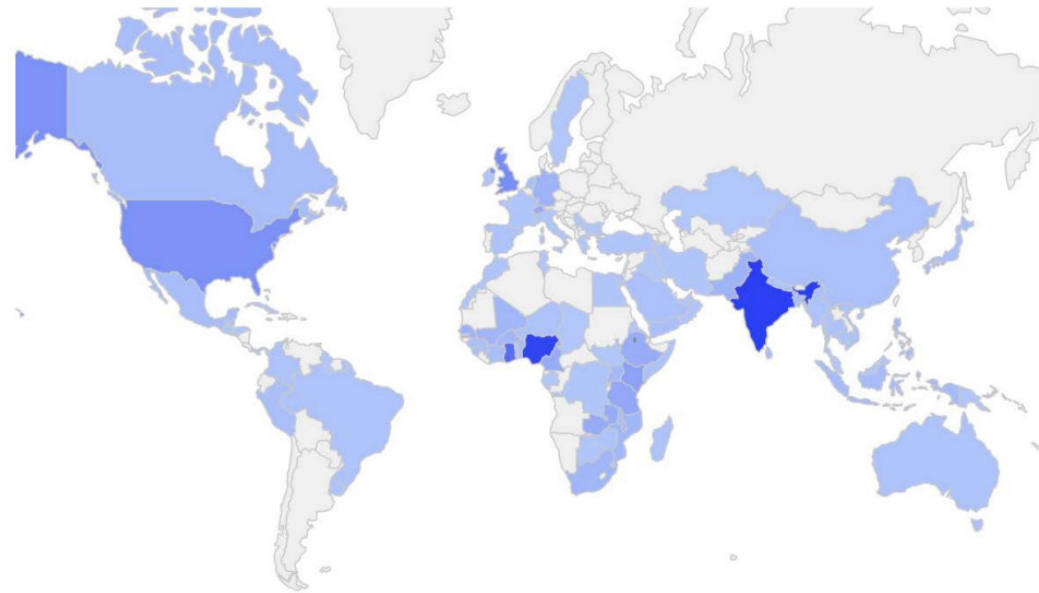


Key MOOC messages

- Aim of vector control is reduction in disease burden, not insecticide use
- Insecticides are a valuable tool for vector control – but not the only one...
- Pro-active Insecticide Resistance Management (IRM)
- Value susceptibility
- Vector control and IRM in the context of Integrated Vector Management/Integrated Vector Control – wholistic approach

Learners profile

- Over 2300 learners on FL and Tales platforms, the numbers are constantly growing 😊
- From 97 countries of which the most are on malaria control & elimination settings 😊
- Numerous Organization
- Several professional specialties
- **Spot-on targeted audience** 😊



The report from the New Media Center, University of Basel was just sent to us



Regina N. Verified learner



Experience

I will give the course a rate of 5. I already worked in the area of insecticide resistance but I did not know that there was so much more to learn especially on insecticide susceptibility management and insecticide resistance management. Looking forward to more courses like this in the future.

A good number of positive and encouraging comments were made in the discussions relating to all the steps.

22/08/22



Stephen A. Verified learner



Educative and exciting

I thoroughly enjoyed the course biology and tackling the issue of



Ookame O. Verified learner



Great title

The content was just ok, well articulated, easy to understand. I loved the fictional stories used because its exactly what is happening, or what happened in most countries. I could relate very well.

18/08/22

Over 1500 comments, questions, answers!

22/08/22



Willy N. Verified learner



The Resistant Mosquito: Staying Ahead of the Game in the Fight against Malaria

This is one of those short courses I have enjoyed. So informative and influencing. One has just to do the right thing(s). If you are into disease vector control, then this course is one need to take.

r great

Swiss TPH



Take the course!

For free

<https://tales.nmc.unibas.ch/en/the-resistant-mosquito-43/>

With certificate (registration fee)

<https://www.futurelearn.com/courses/the-resistant-mosquito-staying-ahead-of-the-game-in-the-fight-against-malaria>

Get convinced by watching the trailer (2 min 39 sec) on YouTube

<https://www.youtube.com/watch?v=ZrsRrWyY184>



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Grateful to RBM Vector Control Working Group

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Thank you for your attention

