



EN ▾



Global Vector Hub



The global open access community for vector control information and research

Resources →

Data →

Network →



LONDON SCHOOL of HYGIENE & TROPICAL MEDICINE



RBM-VCWG 17th annual meeting

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The Global Problem



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- **80%** of World's population at risk of vector-borne diseases (VBDs)
- **17%** of global disease burden of communicable diseases due to VBDs
- 241 million **malaria** cases and **627,000 malaria deaths** worldwide in 2020
- **390 million dengue infections** per year, 3.9 billion people at risk

Our aims



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#1

Be the first port of call for researchers, public health workers, government agencies, policy makers and NGOs responding to threats of vector-borne disease



#2

Build a community of practice through hosting bespoke educational materials and learning packs for professionals working in vector control and research



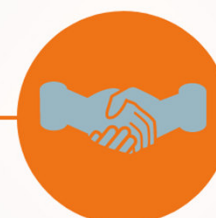
#3

Provide a **platform for transparent data sharing** and worldwide information about vector species that transmit disease



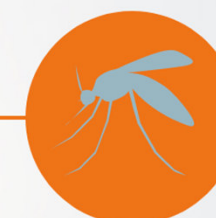
#4

Build capacity and maximise preparedness for outbreak situations



#5

Connect vector control professionals through developing a network and discussion forums with search functions that are intuitive



#6

Reduce vector-borne disease incidence by making research more effective and less wasteful, worldwide

The Global Vector Hub platform



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<https://globalvectorhub.lshtm.ac.uk/>

The screenshot shows the homepage of the Global Vector Hub. On the left, there is a navigation menu with a hamburger icon and a search icon. The main heading is "Global Vector Hub" in large orange letters, followed by the tagline "The global open-access community for vector control information and research" and a stylized orange vector icon. Below this are three buttons: "Resources →", "Data →", and "Network →". At the bottom left, there is a "New!" announcement for the "Global Atlas of Medical Entomology Schooling" and the "TDR For research on diseases of poverty" logo, which includes UNICEF, UNDP, World Bank, and WHO. The right side of the page features a large globe with three callout boxes: "Ukraine VBD situation report Europe", "Yellow Fever - West and Central Africa West Africa", and "Australia: Health warning about mosquito-borne viruses Oceania". The footer text reads "Created by: Blue Frontier".

GVH current status



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- An early version of **The Global Vector Hub (GVH-Beta)** was launched in June 2020, with a full version to follow very soon.
- This beta version includes **data, resources** and **networking** features, focusing on **capacity building** and systems strengthening for **vector control** globally, and establish a community of practice for vector control interventions.
- It also includes a global **directory** of training courses in medical entomology developed by GVH and Arctech Innovation for **WHO-TDR**.

Resource repository



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Do

Q Enter a search term

Author

Continent

Country

Disease

Language

Network

Publication Year

Repellent Name

Resource Links

Role

Vector Species

EN

Resources

Favourites

- All Resources
- Laboratory and Field Technical Documents
- Key Information
- Integrated Vector Management and Monitoring and Evaluation
- Policy and Funding
- Summaries
- Resource Links

Results

Total: 315

Sort By: Popularity Direction: Ascending View: Grid List

	Insecticide Resistance Monitoring [WHO 2013] Laboratory and Field Technical Documents			
	Equipment for vector control - Specification guidelines [WHO 2018] Laboratory and Field Technical Documents			
	Generic risk assessment model for indoor residual spraying of insecticides [WHO 2018] Laboratory and Field Technical Documents			
	Generic risk assessment model for insecticides used for larviciding and mollusciciding [WHO 2018] Laboratory and Field Technical Documents			
	Generic risk assessment model for insecticide-treated nets [WHO 2018] Laboratory and Field Technical Documents			
	Larval Source Management (LSM) summary [GVH] Key Information			
	Global Strategic Framework for Integrated Vector Management [WHO] [2004] Policy and Funding			
	Key points of malaria elimination framework [WHO] Policy and Funding			
	Framework for implementing integrated Aedes management [WIN] Integrated Vector Management and Monitoring and Evaluation			

Currently **315 resource documents** available on GVH.

Top 5 resources accessed by users:

1. The Impact of COVID-19 on Vector-Borne Disease Research and Control Operations [GVH; 2020]	1,481 views
2. Global Vector Control Response 2017-2030 [WHO; 2017]	1,392 views
3. Ukraine VBD situation report [GVH; 2022]	1,148 views
4. Pictorial identification key for important disease vectors in WHO SE Asia region [WHO; 2020]	891 views
5. Entomological Surveillance Planning Tool [MEI; 2020]	551 views

Assessing the impact of COVID-19



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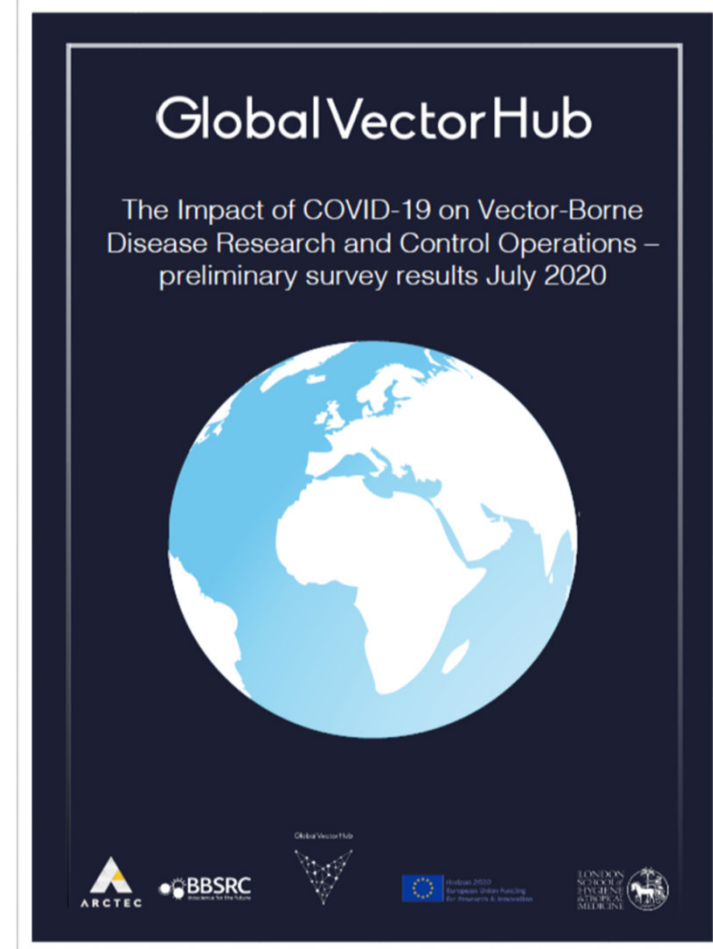


In July-August 2020, the GVH ran a survey to establish the potential **impact of COVID-19** on **global vector control efforts**, including:

- How different sectors and stakeholder groups are affected;
- The control and surveillance of which VBDs are most strongly affected;
- Characterise gaps in knowledge and communication;
- Develop robust recommendations for future epidemic preparedness;
- Identify common narratives and experiences.

Our findings were used to **provide recommendations** to numerous agencies including the WHO, NGOs, policy makers and industry during the pandemic.

1: The Impact of COVID-19 on Vector-Borne Disease Research and Control Operations – preliminary survey results July 2020. Available here: <https://tinyurl.com/y5hv4jee>



Impact on vector control operations



- Large proportion reported severe impacts on their own work
- 57% felt that COVID-19 affected VBD research and control operations in general 'greatly' or 'extremely'

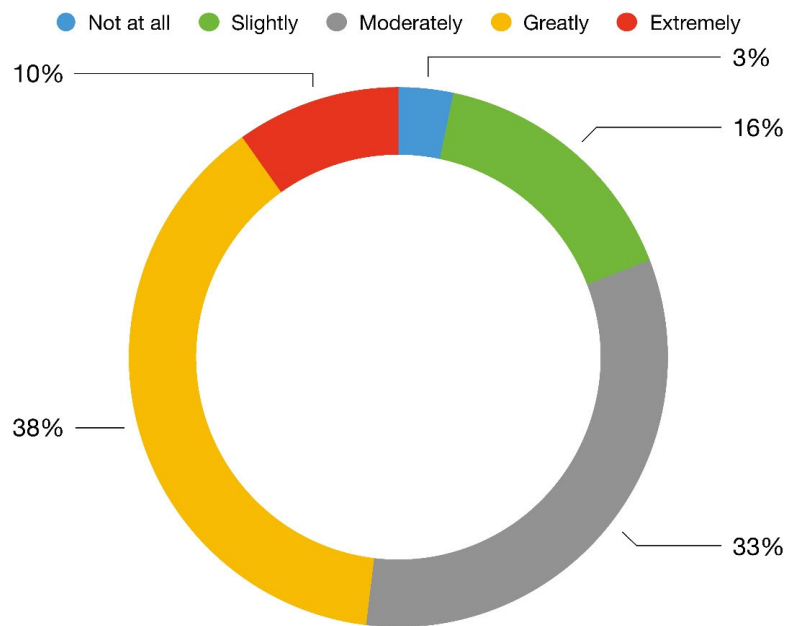


Fig. 5. Respondents' perception on how COVID-19 has affected their own work.

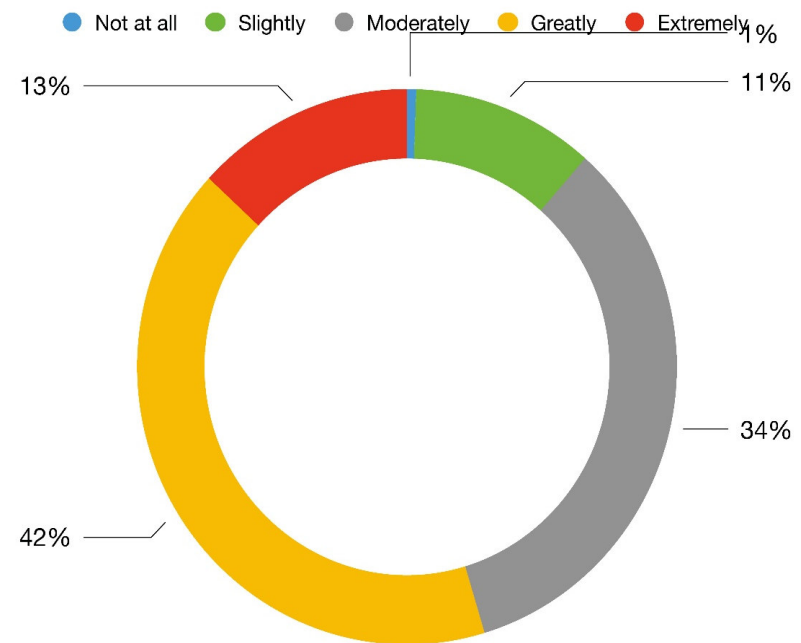


Fig. 6. Respondents' perception on how COVID-19 affects VBD research and control operations.

Ukraine VBD situation report



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Available at: <https://globalvectorhub.lshtm.ac.uk/news/4109>

Key points:

- Risk of nuisance biting by ticks and mosquitoes in coming months
- Moderate risk of Lyme borreliosis (LB) and TBE
- Very small risk of WNV
- Negligible risk of other VBDs, eg. malaria or CCHF
- Overall, risk of VBDs considered low; specific risk profiles depend on environmental conditions and living conditions of affected people.
- Avoid insect and tick bites
- Specific guidance on preventative measures against tick and insect bites given in report.

GVH network



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Registered users can **share** data and information about their fields of expertise, actively participate in online **discussion** forums and **collaborate** on future projects.


The network also includes information on relevant academic, government, not-for-profit, industry led-organisations and research **institutions**.


Further sections on funding and employment **opportunities** are also included to allow for **capacity building** and improve staff retention.


DR ROBERT T JONES CLOSE


PROFILE RESOURCES DATA NETWORK


OVERVIEW

 [Manage photo](#)

 [ResearchGate](#)

 [Twitter](#)






 [LinkedIn](#)

 [ORCID](#)



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec ac ante augue. Nulla elit ligula, condimentum nec justo at, dictum accumsan turpis. Sed aliquam dolor in justo laoreet commodo. Morbi rutrum, erat sit amet congue luctus, mi lorem luctus dolor, a ultricies mauris nisi et risus. Aenean nulla tellus, fermentum laoreet semper a, porttitor malesuada purus.

Ut finibus ut risus in fringilla. Fusce eu tortor ac ex fermentum vestibulum. Aenean posuere rutrum lacus non gravida. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Vivamus condimentum nisi a purus dapibus, eget tempus magna tempus. Ut euismod est sed commodo scelerisque. Fusce vehicula leo id vulputate tincidunt. Sed eu feugiat diam. In nec faucibus odio, auctor bibendum dui.

RESEARCH AREAS

-  Dengue Virus (Haemorrhagic Fever)
-  Dengue Virus (Haemorrhagic Fever)
-  Dengue Virus (Haemorrhagic Fever)
-  Dengue Virus (Haemorrhagic Fever)
-  Dengue Virus (Haemorrhagic Fever)

COUNTRIES

-  Dengue Virus (Haemorrhagic Fever)
-  Dengue Virus (Haemorrhagic Fever)

Discussion forum



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Dedicated subgroups for specific topics or external partners.

The screenshot shows the Global Vector Hub forum interface. At the top, there is a navigation bar with 'Quick links', 'FAQ', and 'ACP' on the left, and a user profile 'frederik.seelig@lshtm.ac.uk' on the right. The main header features the 'Global Vector Hub' logo and tagline: 'The global open-access community for vector control information and research'. Below this is a breadcrumb trail: 'Home < Board index'. The forum content is displayed in a table with columns for topic name, description, number of threads, number of replies, and the latest post. The topics listed are 'Vector Control Implementation', 'Best Practices in Controlled Trials', 'Emergency Preparedness Response' (with a subforum for 'COVID-19 Impact on Vector Control'), and 'Insecticide Resistance'. The current date and time are shown at the bottom: 'It is currently 04 May 2022 13:00'.

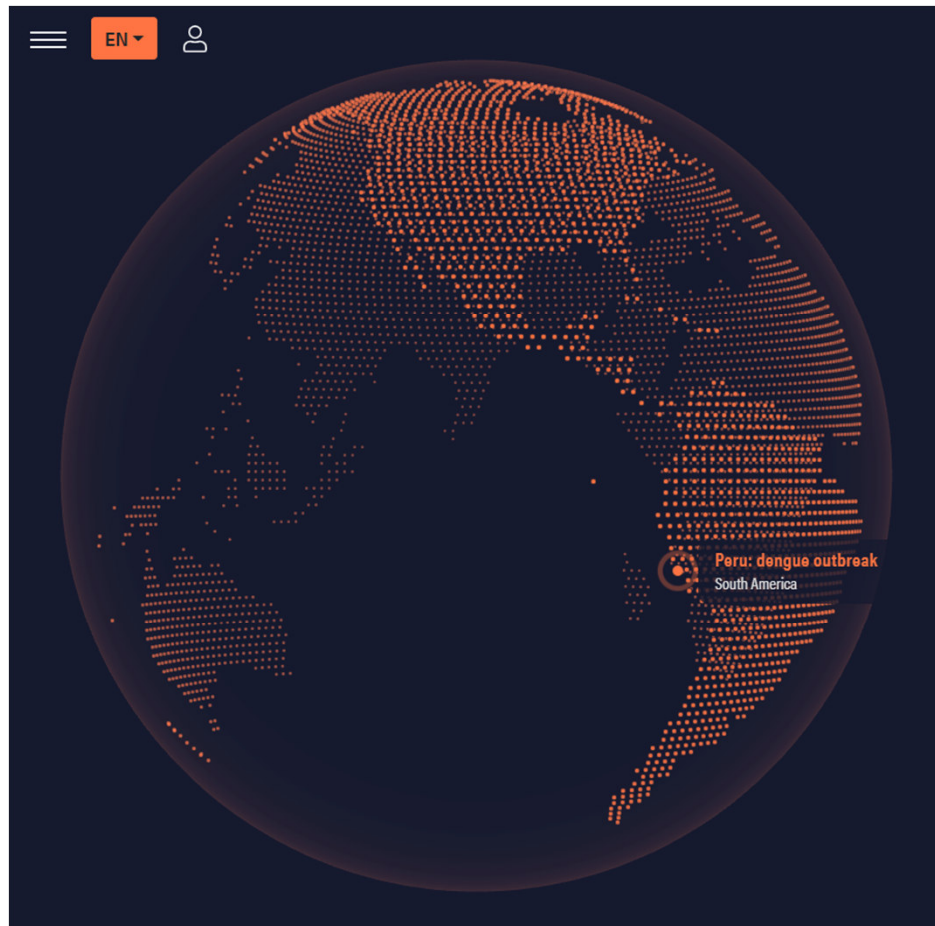
Topic	Description	Threads	Replies	Latest Post
Vector Control Implementation	Welcome to the Vector Control Implementation discussion group. Here you will find comment threads and control implementation narratives submitted by our users.	1	1	South American vector control... by scott.tytheridge1@lshtm.ac.uk 16 Jun 2021 12:32
Best Practices in Controlled Trials	Welcome to the Best Practices in Control Trials discussion group. Here you will find discussion on recommendations for conducting controlled trials, methodology guides, and lessons learned in the field provided by our users.	0	0	No posts
Emergency Preparedness Response	Welcome to the Emergency Preparedness Response discussion group. Here you will find comment threads related to prevention techniques and recommendation from our users.	0	0	No posts
Subforum: o COVID-19 Impact on Vector Control				
Insecticide Resistance	Welcome to the Insecticide Resistance discussion group. Here you will find discussion on current research and recommendations on insecticide resistance.	0	0	No posts

It is currently 04 May 2022 13:00
[Mark forums read](#)

External partners: BOVA Network



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[← Back To Previous Page](#)



Building out vector-borne diseases in sub-Saharan Africa: an interdisciplinary network focusing on preventing vector-borne diseases through improving the built environment.

The BOVA Network is now hosted by GVH. This page provides an insight into the work that was carried out from early 2017 to December 2021.

Resources

Discussion Forum

About



The Problem

What is the burden of vector-borne diseases in sub-Saharan Africa and how are they linked to the built environment?



Previous Management Network

The BOVA network was co-led by network Directors Professor Steve Lindsay and Professor Mike Davies, and supported by a network Management Board.



What we do

The BOVA network aimed to create an interdisciplinary network of researchers in the built environment and vector-borne diseases in sub-Saharan Africa.

Linking resources & initiatives

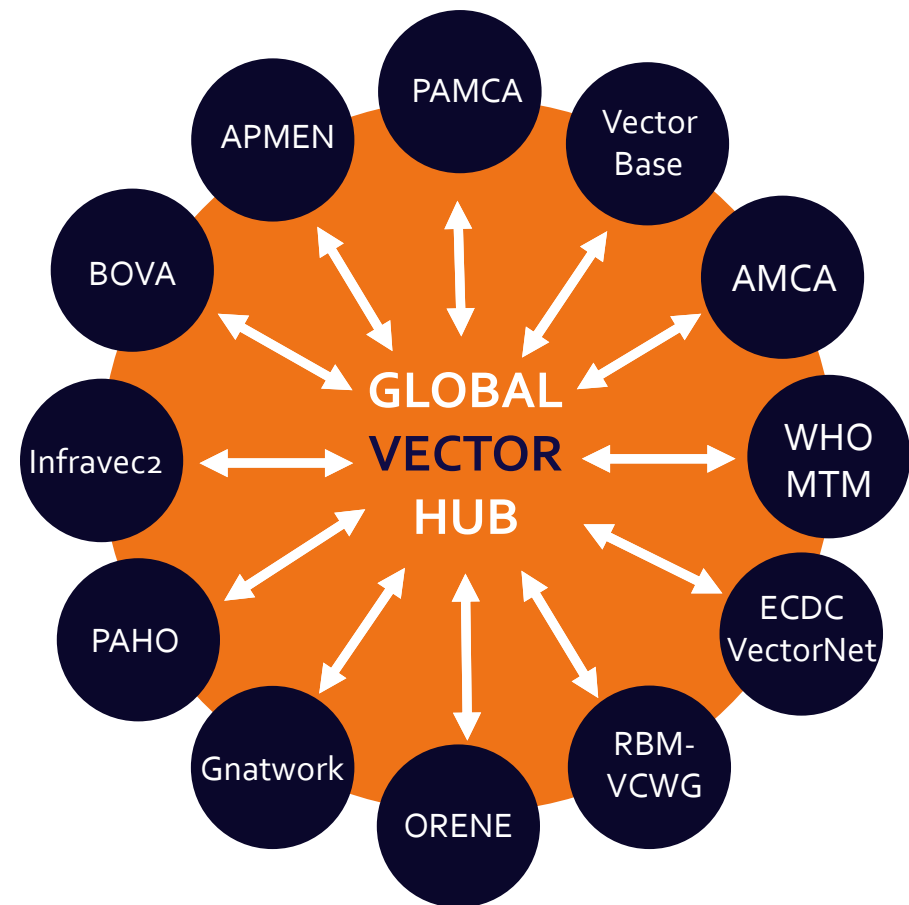


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The GVH is backed by many **key partners** within the **vector control community**, and serves as a central platform bringing together data and resources from multiple sources for health workers and researchers to **access in one location**.

This enables **closer collaboration** between vector control groups and initiatives, and ensures **knowledge gaps** are identified, and impact is demonstrated and shared across every region.



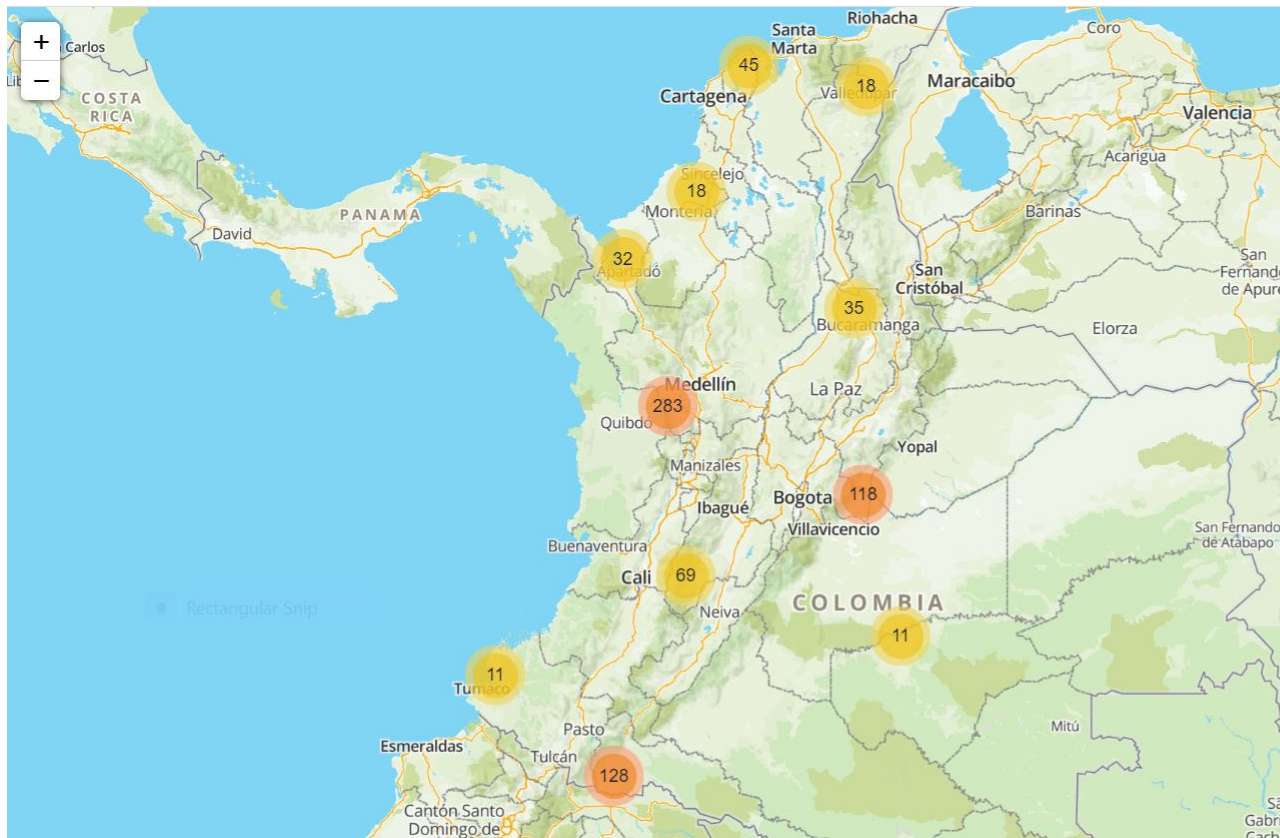
GVH vector data example: Colombia



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Vector abundance – *Aedes aegypti*



Search by country, region or diseases

- [View Data Index](#)
- [Save Search](#)
- [Reset Criteria](#)

Current Filters:

Country: Colombia

Can't find what you're looking for? Upload your own data [here](#).

768 Data Entries

Download

Abundance

Hide Map

TDR partnership with GVH



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In January 2021, the GVH launched a **global directory of medical entomology training courses**, developed in partnership with the Special Programme for Research and Training in Tropical Diseases (TDR) and ARCTEC.²

This new resource helps strengthening the capacity of scientists combating **neglected tropical diseases** and other **vector-borne diseases**.



TDR For research on diseases of poverty
UNICEF • UNDP • World Bank • WHO

NEWS ABOUT US RESEARCH FOR IMPLEMENTATION STRENGTHENING RESEARCH CAPACITY GRANTS PUBLICATIONS & RESOURCES GLOBAL ENGAGEMENT AND PARTNERSHIPS DISEASES & TOPICS

News
Latest news

A new resource for building medical entomology capacity to fight neglected tropical diseases

TDR news item
26 January 2021

TDR and the Global Vector Hub have developed a web-based directory of medical entomology courses available globally as a new resource for strengthening the capacity of scientists combating neglected tropical diseases and other vector-borne diseases.

Related links
— From the laboratory to the field: Updating capacity building in medical entomology

2: Press release: <https://www.who.int/tdr/news/2020/new-resource-for-building-medical-entomology-capacity/en/>

TDR & GVH course directory



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Course directory: 161 training courses in medical entomology, from 32 countries, in 10 languages.

Courses

Directory of courses on medical entomology available on campus and on-line. Click "More Information" to navigate to see a course outline and further details.



Display as: Table View Map View

Search:

Country	Name	Institution	Language	Keywords	Course Outline
Argentina	Entomología Experimental: Medición y Análisis de Variables Fisiológicas y Comportamentales	Universidad de Buenos Aires, Departamento de Ecología, Genética y Evolución	Spanish	Entomology; Short course; 1 week; Insect rearing;	El objetivo general del curso es que el participante se familiarice con: 1) el manejo de las metodologías de laboratorio y campo necesarias para la realización de experimentos con insectos, 2) los métodos... More Information
Argentina	Reconocimiento de la Identidad en Insectos: Bases Químicas y Neuroetológicas	Universidad de Buenos Aires, Departamento de Ecología, Genética y Evolución	Spanish	Short course; 1 week; Insect behaviour; parasitology	El curso brinda conceptos teóricos acerca de: 1) cómo reconocen los insectos a sus coespecíficos y a sus enemigos, y cuáles son las claves químicas implicadas en el reconocimiento de la identidad, 2)... More Information
Argentina	Ecología de Insectos. Módulo I: Los individuos, su comportamiento y el ambiente	Universidad de Buenos Aires, Departamento de Ecología, Genética y Evolución	Spanish	Insect ecology; Short course; 3 weeks; ecophysiology	El curso brinda conceptos teóricos y prácticos acerca de: 1) Introducción a la ecología de insectos, 2) Ecología del individuo. Los insectos y las variables abióticas: Ecofisiología, 3) Ecología del i... More Information
Argentina	Chagas, del Conocimiento a la Acción	Aula Virtual de la Fundación Bunge y Born	Spanish	Chagas Disease; Short course; 12 weeks; Diagnosis and Treatment of Chagas Disease; Vector control; Community Participation;	Chagas congénito: diagnóstico y tratamiento El abordaje familiar de la enfermedad de Chagas El fichero cronológico y recolección de datos en la enfermedad de Chagas Cómo empezar a ordenar las tareas... More Information

TDR-GVH symposium



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TDR-Global Vector Hub symposium

Global landscape analysis of training courses in medical entomology for vector-borne disease control: Lessons learned from existing courses and summary of needs assessment

Date

Monday 31 January 2022
13.00-15.00 CET

Chair

Dr Fredros Okumu, Ifakara Health Institute, Tanzania

Panelists

Professor María Guadalupe Guzmán, Pedro Kouri Tropical Medicine Institute/IPK, Cuba

Dr Martin Akogbeto, Centre de Recherche Entomologique de Cotonou/CREC, Benin

Ms Michelle Katusele, PNG Institute of Medical Research/IMR, Papua-New Guinea

Dr Kelly Martinou, Joint Services Health Unit/JSHU, Cyprus

Professor Theeraphap Chareonviriyaphap, Kasetsart University, Thailand

TDR For research on
diseases of poverty
UNICEF · UNDP · WORLD BANK · WHO

GlobalVectorHub
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for vector control information and research

Landscape analysis of training courses in medical entomology for VBD control: lessons learned from existing courses and summary of needs assessment.

Chaired by Dr Fredros Okumu (IHI, Tanzania)

Panelists from Cuba, Cyprus, PNG, Thailand

Massive Open Online Course (MOOC)



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'The Global Challenge of Vector Borne Diseases and How to Control Them'³

>4,500 registered users;
extremely positive feedback
from stakeholders (AMCA,
PAMCA, APMEN), requests for
repeats and inquiries about
future collaborations.



FREE Online Course
The global challenge of
vector borne diseases
and how to control them

ENROL NOW ➔



³: MOOC available at: <https://www.futurelearn.com/courses/vector-borne-diseases>

PLOS NEGLECTED TROPICAL DISEASES

 OPEN ACCESS

VIEWPOINTS

The COVID-19 pandemic should not derail global vector control efforts

Frederik Seelig , Haroldo Bezerra, Mary Cameron, Jeffrey Hii, Alexandra Hiscox, Seth Irish, Robert T. Jones, Trudie Lang, Steven W. Lindsay, Rachel Lowe, Tanaka Manikidza Nyoni, Grace M. Power, Juliana Quintero, Anna M. Stewart-Ibarra, Lucy S. Tusting, Scott Tytheridge, James G. Logan [[view less](#)]

Published: August 31, 2020 • <https://doi.org/10.1371/journal.pntd.0008606>

- Brought together broad coalition of global vector experts.
- Article mentioned in several external newsletters
- Currently >3,600 views, 9 citations.

4: Available here: <https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0008606>

Online GVH workshop



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'The impact of COVID-19 on global vector control efforts'⁵

Organised in collaboration with
The Global Health Network (TGHN)

Attended by >400
participants from 60 countries.

Panellists from WHO, KEMRI,
PRVCU & LSHTM

Global Vector Hub
The global open access community for vector control information and research

Global Vector Hub workshop series

The impact of COVID-19 on global vector control efforts

This workshop aims to establish the impact of COVID-19 on the current vector control situation in different settings. We will identify gaps in our knowledge and data availability, assess funding and communication needs, and propose mitigation efforts. We will also address how vector control operations might need to change to improve epidemic preparedness and prevent future outbreaks.

Chair: Dr Frederik Seelig
London School of Hygiene and Tropical Medicine/ Global Vector Hub

Prof James Logan
London School of Hygiene and Tropical Medicine/ARTEC

Dr Raman Velayudhan
World Health Organisation

Dr Damaris Matoke-Muhia
Kenya Medical Research Institute/Pan-African Mosquito Control Association

Dr Grayson Brown
Puerto Rico Vector Control Unit

22 July 2020 at 12:00 GMT+1 (London)

REGISTER NOW @GlobalVectorHub @info_TGHN

Learn More: globalvectorhub.tghn.org

THE GLOBAL HEALTH NETWORK

⁵: Recording available here: <https://globalvectorhub.tghn.org/online-workshops/>

The GVH Team



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Prof James Logan
Head of Dept. of Disease
Control, LSHTM
GVH Director



Dr Alexandra Hiscox
Head of Research Programmes
Project Manager (ARCTECH)



Dr Frederik Seelig
Partnerships Manager



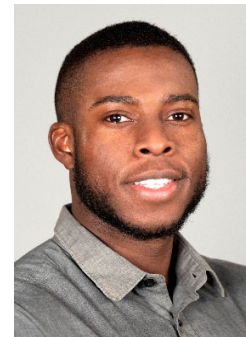
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Dr Robert Jones
Research Fellow
**Content Manager & Case
Studies**



Scott Tytheridge
Research Assistant
Content Developer



Tanaka Manikidza Nyoni
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Content Editor**



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GET IN TOUCH

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globalvectorhub@lshtm.ac.uk

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