

MMV: Partnerships for health impact

Our vision is a world in which affordable drugs will help eliminate the devastating effects of malaria and help protect billions of people at risk. Through successful public-private partnerships, Medicines for Malaria Venture discovers, develops and delivers safe and effective antimalarial drugs appropriate for the needlest population. With the largest-ever portfolio in development, MMV ensures that antimalarial drugs are delivered as "public goods" and ultimate health impact is made in disease endemic countries. As a nonprofit organization leveraging public sector financial resources, MMV improves the economic prospects of new drug innovation by attracting, funding and partnering with pharmaceutical companies, academic and other research institutions.

Discover, develop and deliver safe, effective and affordable antimalarial medicines





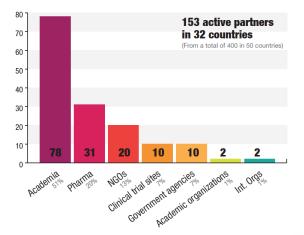
MMV Drug Discovery

- Expertise in Drug Discovery: 29 Malaria Drug Candidates between 2010-2022
- Complex Compound Logistics Capabilities



Virtual Pharmaceutical Platform:

1.8 million compounds from 25 centres into 20 assays



MMV open: enabling access to interesting compounds Stimulating Neglected Disease Research



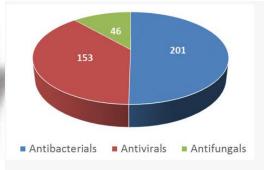


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MMV open: Pandemic Response Box







Launched January 2019
Open Source Drug Discovery

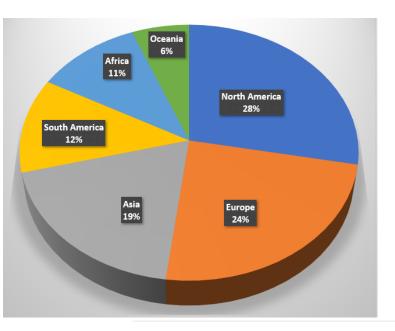
- 400 compounds: Antibacterial, Antifungal, Antiviral Activity
 - Selected with input from global experts
- Available to order for free www.mmv.org/mmv-open
- Potential Starting Points for drug discovery programs vs pandemic pathogens
- MMV scientists provide drug discovery advice and data to recipients
- Recipients agree to make results publicly available



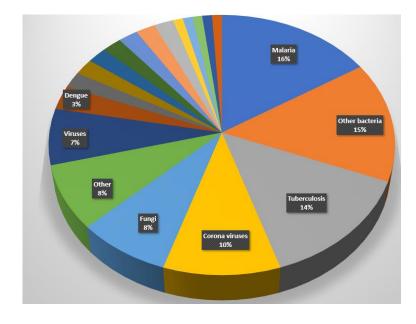




Pandemic Response Box Successes



- Global distribution
- >150 copies shipped
- Screened vs key pathogens



Interesting Hits Identified

Discovery of an imidazonaphthyridine and a riminophenazine as potent anti-Zika virus agents through a replicon-based highthroughput screening

Rafaela Sachetto Fernandes ^a \times \boxtimes , Andre Schutzer de Godoy ^a, Igor Andrade Santos ^b, Gabriela Dias Noske ^a, Ketllyn Irene Zagato de Oliveira ^a, Victor Oliveira Gawriljuk ^a, Ana Carolina Gomes Jardim ^b, Glaucius Oliva ^a

Show more V

EXPERT OPINION ON DRUG DISCOVERY 2022, VOL. 17, NO. 6, 641-659 https://doi.org/10.1080/17460441.2022.2080105

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Check for updates

Identifying novel drugs with new modes of action for neglected tropical fungal skin diseases (fungal skinNTDs) using an Open Source Drug discovery approach

Wilson Lim O, Annelies Verbon O and Wendy van de Sande O

Department of Microbiology and Infectious Diseases, Erasmus MC, University Medical Center Rotterdam, Rotterdam, The Netherlands

Article

A Screening of the MMV Pandemic Response Box Reveals Epetraborole as A New Potent Inhibitor against Mycobacterium abscessus

Taeho Kim ¹, Bui-Thi-Bich Hanh ¹, Boeun Heo ², Nguyenthanh Quang ², Yujin Park ², Jihyeon Shin ², Seunghyeon Jeon ³, June-Woo Park ^{4,5}, Kirandeep Samby ⁶ and Jichan Jang ^{2,*}

Article

Discovery of Anti-Amoebic Inhibitors from Screening the MMV Pandemic Response Box on Balamuthia mandrillaris, Naegleria fowleri, and Acanthamoeba castellanii

Christopher A. Rice ^{1,2,*,†,‡}, Emma V. Troth ^{2,3,†}, A. Cassiopeia Russell ^{2,3,†} and Dennis E. Kyle ^{1,2,3,*}

Screening the Pathogen Box for Identification of *Candida albicans* Biofilm Inhibitors

Taissa Vila, Jose L. Lopez-Ribot

Department of Biology and The South Texas Center for Emerging Infectious Diseases, The University of Texas at San Antonio, San Antonio, Texas, USA





- 400 compounds active vs. neglected diseases
- Distributed free on request: 2015-2019: 280 Boxes sent to 39 countries, >60 Publications

Key Challenge: help investigators progress research / support funding applications

• In drug discovery: Test related compounds, initial structure activity relationships

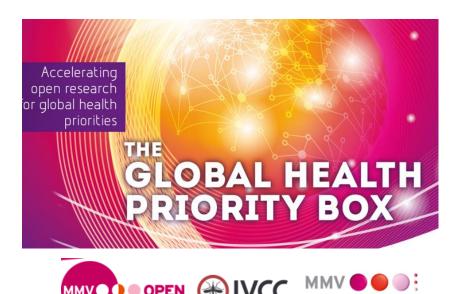
WHO CEWG Candidate Demonstration Project funding: Exploiting the Pathogen Box

- Scientists in Brazil, Ghana and India synthesised analogues of Pathogen Box compounds
- MMV provided these compounds and drug discovery advice to Pathogen Box recipients
 Bridging funding gaps: supporting researchers to progress their findings





- Launched June 20
- Rapid Response to SARS-COV-2 Pandemic
- Accelerating open research on coronaviruses
- Improving pandemic preparedness by sharing data



- NEW Launched World Mosquito Day Aug 22
- Free to order at www.mmv.org/mmv-open
- 80 compounds confirmed activity against drug resistant malaria
- 80 compounds selected from a compound library donated by Bristol-Myers Squibb
- 80 compounds selected with IVCC: new compounds for vector control and transmission-blocking medicines





Committed funders

























