

Defeating Malaria Together



A child dies every 2 minutes



- 1. WHO World Malaria Report 2016
- 2. Gallup JL and Sachs JD. Am J Trop Med Hyg, 64: 1 suppl: 85-96 (2001).



MMV Team March 2017





A foundation of ~80 people working towards the same mission, to reduce the burden of malaria in diseaseendemic countries by

DISCOVERING, DEVELOPING and DELIVERING new, effective and affordable antimalarial drugs



Objectives and Goals: Screening/HTLP Platform: GHIT funding to deliver Early Lead (Start of Lead Optimisation Program)



Exciting opportunity to collaborate with Japanese Partners

Access to novel chemical structures and new drug discovery expertise

GOAL: Deliver the next generation of antimalarial drugs



Impact on Global Health

Enhanced discovery efforts over the next decade are critical for an eradication agenda over the next 25 years



Partnerships: Screening For High Value Hits



- Libraries of compounds from Japanese Institutes
- Screening results returned to Japanese Partner
- Partner decides which structures they are prepared to disclose to MMV
- MMV advice on novel series and portfolio fit
- Joint Decision on GHIT Hit to Lead Funding Application



Partnerships: GHIT MMV Projects

Projects A



Projects B

Japanese Partner Med Chem, Drug Discovery advice

Indian CRO Synthesis

Australian Universities Biology and Drug Metabolism

MMV: Medicinal chemistry Malaria lifecycle assays



Flexibility: Configure project based on needs



Activities and Results



Product Development

Validated Hit



Activities and Results





Activities and Results





Lessons Learned

- Strategy validated: successful progression of projects
- `Blinded` screening encourages initial collaboration
- Each Project configured according to needs
- Expertise of Japanese institutions highly valued
 - Drug discovery and series specific expertise
- Assess to MMV screening centers and expertise is key
- MMV Partner meeting: great sharing of knowledge
- Challenge: Work to improve screening turnaround times



Comments

- New focus on malaria eradication projects
 - Blood stage PLUS chemoprotection, transmission blocking, antihypnozoite activity
- Strong portfolio of GHIT funded MMV projects
- GHIT and Japanese Partners, working with MMV will play leading role in new era of anti-malarial drug discovery
- Thanks to all Scientific Partners and Funding bodies



Global Health Innovative Technology Fund



