

March 24, 2022

Malaria Vaccine Development

through

Innovation and Partnerships









- Mission of PATH's Malaria Vaccine Initiative as a PDP
- The first malaria vaccine, RTS,S/AS01 (RTS,S), is a product of innovation and partnerships
- Developing 2nd generation malaria interventions through innovation and partnership
- Key elements in a productive partnership



PATH Mission:

advance health equity through innovation and partnerships





Center for Vaccine Innovation and Access (CVIA)

spans every stage of vaccine research, development, and introduction to make lifesaving vaccines widely available to communities around the globe.

Malaria Vaccine Initiative

Enteric & Diarrheal

Respiratory infection and Maternal Immunization

Pollio















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WHO recommends groundbreaking malaria vaccine for children at risk

Historic RTS,S/AS01 recommendation can reinvigorate the fight against malaria



6 October 2021 | News release | Geneva | Reading time: 3 min (859 words)

RTS,S/AS01 is a Product of Innovation + Partnership







Institute of Research









RTS,S pilot introduction (MVIP) involves many partners



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2nd Gen Malaria Vaccine Development

Clinically validated Ph 3 (Pilot introduction, RTS,S)



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2nd gen malaria vaccine development via Innovations + partnership

	Year	Project	Partners
v Fun	2013	Express pre-erythrocytic stage antigen, screen for anti- infection malaria vaccine candidate	PATH で愛媛大学 HIME UNIVERSITY
	> 2014	Express mosquito stage antigen, screen for transmission blocking vaccine candidate	PATH
	2016	Design and display Pfs230 as TBV candidate	PATH C 愛媛大学
	ovative 2019	Co-delivery of Pfs230 and CSP with a novel CoPoP liposomes-based adjuvant	PATH で愛媛大学 EHIME UNIVERSITY LIOO C 愛媛大学 The State University of New York
		Preclinical development of Pfs230 as TBV candidate formulated with SA-1, a novel TLR7 adjuvant	PATH C 愛媛大学 Sumitomo Dainippon Po::AO+//ADO
		Evaluate full-length CSP formulated with SA-1, in comparison with RTS,S/AS01 as a benchmark	PATH C爱媛大学 Sumitomo Dainippon Po::AO+//ADO
	2022	Preclinical development of an anti-CSP mAb derived from RTS,S human trial	PATH C 愛媛大学 gsk Elisai

Fund

GHIT

Innovation + Partnership Advanced Pfs230D1/SA-1 as a TBV Candidate



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Innovation + Partnership enabled evaluation of flPfCSP in new adjuvants





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Key elements in a productive partnership

- Excellence in science, innovation
 - Ehime University, a premier academic malaria research partner
 - Sumitomo Dainippon Pharma, a big pharma with novel adjuvant technology
 - PATH MVI, a leading PDP in malaria vaccine development
- Complementary skill sets for a common goal
 - Target product profile to guide project design
 - Clear go/no go criteria to guide investment







Special Challenges for Global Health Initiatives

• Partnership critical for product development

- Assemble complementary skill sets: specialized knowledge required
 - Pathogen
 - Cutting edge technology
 - Production, quality, safety testing
 - Regulatory
 - Clinical trials
- Target Product Profile guides process toward impact
 - Developing world and developed world have different requirements
 - IP must meet global access requirement
 - Clear go/no go criteria to assure efficient use of precious resources
- Connect partnerships to accelerate toward success
 - Research to Development to Implementation



Thank you