

Accelerating Development of a Malaria Vaccine

An Urgent Need

Malaria exacts an enormous toll on the public and economic health of developing countries. Even with existing interventions, malaria takes the lives of over one million people each year, and 300 to 500 million people suffer from the disease. A malaria vaccine could reduce infection and produce a dramatic and sustained public health benefit by preventing disease. Although impressive advances have been made in malaria vaccine research, fresh perspectives, improved coordination, new collaborations, and increased efficiency can further accelerate development of a viable vaccine.

A Novel Approach

Technology roadmaps help to focus technology investments through a collaborative, knowledge-based process. A Malaria Vaccine Technology Roadmap offers a new way of looking at the issues to better focus resources and accelerate progress. It will provide a coherent framework for defining critical technology needs, identifying priorities, and aligning future activities with clear strategic goals. The Roadmap can identify multiple technology pathways to a viable malaria vaccine and facilitate partnerships to tackle complex challenges.

The Right Time for a Global Effort

Developing a vaccine against a complex, multi-stage parasite is a formidable challenge—yet a solution appears within our grasp. Promising scientific advances, rising funding levels, and heightened awareness of malaria have increased global commitment to develop an effective malaria vaccine as soon as possible. The time is right for the public health community to develop a Malaria Vaccine Technology Roadmap.

Scientists, donors, product development experts, and public health leaders will come together to make this process a success. The nine-month effort will document the shared vision of the global malaria community and build on the insights and experiences of diverse leaders. The Roadmap will reflect the consensus of all of its stakeholders.

A Malaria Vaccine Technology Roadmap will define promising pathways to a viable malaria vaccine.

Why a technology roadmap?

- ▶ Facilitates collaborative solutions to highly complex scientific and technological challenges
- ▶ Stimulates creativity and innovation
- ▶ Supports multiple lines of inquiry
- ▶ Identifies critical gaps
- ▶ Promotes information sharing
- ▶ Attracts and aligns R&D investment

**MALARIA
VACCINE
TECHNOLOGY
ROADMAP**



Three Key Steps to Roadmap Development

The Malaria Vaccine Technology Roadmap process will bring together public- and private-sector experts who can define the complex scientific and technical challenges of vaccine development and identify promising technology pathways to accomplish desired goals. Key inputs will be sought through three main steps.

Vision Meeting: Leaders from the scientific community will create a shared vision that articulates long-term goals and performance targets. They will be challenged to define strong strategic goals that will drive innovation and cooperation among discrete research and development (R&D) efforts. These leaders will also identify the “big questions” that must be answered to advance malaria vaccine development.

Roadmap Workshop: Leading scientists, health professionals, and industry representatives will convene to target the barriers to vaccine development. These diverse experts will identify critical gaps in R&D and define a full agenda of prioritized research and supporting activities to accelerate vaccine development. The workshop will produce a draft roadmap for subsequent review and vetting by the wider malaria vaccine community.

Donor Summit: A well-informed donor community is essential to accelerating the malaria vaccine development process. A Donor Summit will be held to enable leading donors to broaden their understanding of the malaria community's vision and roadmap. Donors will define their anticipated roles in support of roadmap implementation and discuss opportunities for coordination or partnership.

Global Ownership

The Malaria Vaccine Technology Roadmap will reflect global views and is intended to serve as a “living” common blueprint for the entire global malaria community. It will provide a framework that maps malaria vaccine challenges and end points and helps organize cooperative action. The Roadmap will present new opportunities for donors and researchers to step forward and lead efforts to implement the defined pathways and expedite progress toward a viable vaccine.

Vision Meeting

Trends & drivers
Shared vision
Strategic goals
“Big questions”

Roadmap Workshop

Key barriers
Gap analysis
Parallel pathways
Prioritized R&D needs
Next steps

Donor Summit

Roles & support
Roadmap opportunities

Malaria Vaccine Technology Roadmap

For further information, please contact

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