**Limited Submissions**

**Sponsor:** National Institutes of Health (NIH)

**Program:** A Multidisciplinary Approach to Study Vaccine-elicited Immunity and Efficacy against Malaria (U01 Clinical Trial Not Allowed)

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**Estimated Award Amount:** $3,750,000 (direct costs)

**JHU Nomination Limit:** 1

For More Detailed Information Click [Here](#)

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**Deadlines:**

- **Internal Application:** December 15, 2020
- **Full Application:** February 8, 2021

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**Opportunity Summary:**

The purpose of this initiative is to support research to advance understanding of the underlying immune mechanisms that contribute to malaria vaccine-elicited protection or vaccine hypo-responsiveness in endemic regions by capitalizing on recent research advances in systems vaccinology and systems immunology as well as emerging opportunities in data science and informatics. Multidisciplinary science and collaboration among investigators from the malaria vaccine research field and other relevant scientific areas are highly encouraged. The goal is to identify host signatures and mechanistic factors that influence malaria vaccine performance in endemic regions to guide and improve future vaccine design and evaluation.

This initiative will support multi-disciplinary research that expands current understanding of malaria vaccine-induced protective immunity in humans as well as additional host and environmental factors that impact vaccination outcome in endemic regions, with a focus on pre-erythrocytic stage malaria vaccines.

This FOA will only support research topics related to pre-erythrocytic vaccines for *Plasmodium* parasites that cause human disease, especially *P. falciparum* and *P. vivax*. The goal is to gain a more mechanistic understanding of why endemic populations tend to be less responsive to malaria vaccination, and the challenges of achieving high level and durable protection conferred by pre-erythrocytic malaria vaccines in endemic areas. The successful outcome of this program is expected to guide future vaccine design and clinical evaluation that will more predictably accelerate translation of new candidates from the laboratory to the field.

The goal of this FOA is to enhance our understanding of malaria vaccine performance in endemic regions, including the level and/or durability of vaccine-induced immune protection, and to identify and validate host and environmental factors that impact on vaccination outcomes. Applications proposing research that will capitalize on recent scientific advances in systems immunology and vaccinology, as well as emerging opportunities in data science, informatics, and computational modeling are strongly encouraged. Applicants are encouraged to propose research efforts in one or more of these three major topic areas: baseline immune status, vaccine-elicited immunity and correlates of vaccine outcomes, mechanistic studies.

**Eligibility & Requirements:**

- None

**Internal Nomination Process:**

Interested applicants should submit the following documents:

1. [JHU Limited Submission Cover Sheet](#)
2. Proposal (maximum of two pages of text only, single spaced: 12-pt font and one-inch margins)
   (Note: figures, tables, and other reference material may be included in addition to the 2 pg. text limit)
3. Curriculum Vitae of investigator, including current external research support and publications
4. Budget (two pages maximum)

[Click Here to Apply](#)

Questions? Comments? Email the Research Development Team at [resapp@jhu.edu](mailto:resapp@jhu.edu).