

RESEARCH AGREEMENT
For
Severe Typhoid in Africa (SETA) PLUS Program

This Research Agreement (this "**Agreement**") is made between University of Antananarivo, Madagascar, having its principal place of business at BP 566, Antananarivo 101, Madagascar ("**Grantee**"), and the International Vaccine Institute, having a place of business at SNU Research Park, 1, Gwanak-ro, Gwanak-gu, Seoul, Korea 08826 ("**IVI**"), for performance of research entitled, "Severe Typhoid in Africa (SETA) Plus Program" (the "**Research**").

The parties hereto agree that the Research shall be conducted in accordance with the following terms and conditions.

1. Scope of Work; Principal Investigator; Consultations.

- (A) Scope of Work and Purpose. Grantee will conduct the research as described in the scope of work attached hereto as Appendix A (the "**Scope of Work**") and in accordance with the terms of this Agreement. The purpose of the Research is to estimate the burden and severity of invasive salmonellosis (confirmed by positive blood culture) and generate TF, PF and INTS disease burden to drive vaccine development and inform evidence-based national policy development and strategic planning of a TCV introduction roadmap in Madagascar. (the "**Research Purpose**").
- (B) Principal Investigator. The Scope of Work will be conducted under the supervision of Dr. Raphael Rakotozandrindrainy ("**Principal Investigator**"), who shall be responsible for the direction and activities of the Research. If, for any reason, the Principal Investigator is unable or becomes unavailable to continue on the Research, or if such inability or unavailability is anticipated by or is otherwise made aware to Grantee, Grantee shall immediately notify IVI thereof and shall nominate a replacement for IVI's confirmation within [30] days of notice to IVI. If IVI does not find the nominee acceptable, IVI may, in its sole discretion, terminate this Agreement upon [30] days written notice to Grantee.
- (C) Subcontractors. Where deemed reasonably necessary, Grantee may delegate any portion of the Research to subcontractors, subject to IVI's prior written consent with respect to the engagement of each such subcontractor. All subcontractors shall be bound by the terms of this Agreement, and Grantee shall remain primarily liable for subcontractors' performance under this Agreement.
- (D) Consultations; Site Visits. During the term of this Agreement, IVI shall be entitled to reasonable access for consultation with Principal Investigator and, upon reasonable notice, may visit Grantee's premises to review the progress of the Research.

2. Responsibilities of the parties

- (A) The IVI will:
- Provide financial support to the grantee for the implementation of the Project as described in the payment schedule attached as Appendix B ("Payment Schedule");
 - Collaborate with the grantee for the planning, coordination, monitoring and management of the Project;
 - Obtain clearance from the IVI Ethical Review Committee;
 - Visit the field and review progress of the Project;
 - Provide technical assistance to the grantee for conducting surveillance activities described in the Appendix A;
 - Provide data management support for the Project, including data cleaning and extracting data from the existing database for the surveillance, as needed;