PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
University of Maryland Balt Prof School	03/09/2009

RECEIVING PARTY DATA

Name:	National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12399091

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Total Attachments: 1

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PATENT REEL: 022369 FRAME: 0740

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RECORDED: 03/10/2009

Sign and Fax this to (301) 480-0272 Invention Title: "Live attenuated salmonella paratyphi A vaccine" Inventor(s): Christofer Vindurampulle, Myron M. Levine, Eileen Barry, James Galen **EIR#:** 0820104-05-0047 Patent Docket Number: CV-2006-034 US CIP U.S. Filing/Issue Date: March 6,2009 Patent or Application Serial No: 12,399,091 Grant/Contract Number (s): NIH Grant No. AI029471 Foreign Applications filed/intended in(countries): N/A The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of: The nonexclusive, nontransferable, irrevocable, paid-up license to practice or have 1. practiced for or on behalf of the United States the invention described in any patent application and in any and all divisions, continuations, and continuations in part, and in any and all patents and re-issues granted thereon throughout the world; and All other rights acquired by the Government by reason of the above identified 2. grant/contract award and the laws and regulations that are applicable to the award. The Government is hereby granted an irrevocable power to inspect and make copies of the aboveidentified patent application. Signed this 9th day of March, 2009. Title: Technology Transfer Associate – Commercial Ventures & Intellectual Property For The University of Maryland, Baltimore (Grantee/Contractor Organization) At 520 West Lombard Street, Baltimore, MD 21201 US ((Business Address)

> PATENT REEL: 022369 FRAME: 0741