



Seth Ari Sim-Son Hoffman

- Postdoctoral Medical Fellow, Infectious Diseases
- Fellow in Medicine

Bio

BIO

Infectious Diseases Fellow in the Division of Infectious Diseases & Geographic Medicine. Research to benefit under-served populations.

Dr. Seth Ari Sim-Son Hoffman is a clinical postdoctoral fellow in the Stephen P. Luby Lab within the Division of Infectious Diseases & Geographic Medicine, Stanford School of Medicine, Stanford University. His research interests include using advanced immunological, molecular, and analytical tools to design, evaluate, and implement interventions to reduce the burden of infectious diseases in resource-constrained settings. His work seeks to improve global health equity and to perform clinical, translational, and implementation research to benefit under-served populations globally. His background includes nearly 20 years of research efforts in molecular biology, computational biology, genomics, global health, and clinical research.

Dr. Hoffman is involved in a broad portfolio of impact-driven research to benefit under-served populations including: co-investigator of a randomized controlled trial of box-fan filters and FarUV 222nm UVGI on reducing viral upper respiratory infection transmission in primary school classrooms in Dhaka, Bangladesh; the PI of typhoid urban water supply surveillance in Liberia; data analysis and publication of a typhoid conjugate vaccine (Typbar-TCV®, Bharat Biotech) rollout in Navi Mumbai, India targeting 9-month to 16-year-old children; a co-investigator on a project attempting to characterize, using shotgun metagenomic sequencing of placenta and environmental heavy metal sampling, why women in Bangladesh suffer from a disproportionately high rate of stillbirth; studying the willingness to receive a Phase II Nipah virus (NiV) vaccine and the appropriate language for communication about a NiV vaccine in Bangladesh.

CLINICAL FOCUS

- Fellow
- Infectious Diseases
- Epidemiology
- Global Health
- Planetary Health
- Health Equity
- Emerging Infectious Disease

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Global Health Seed Grant Winner, Stanford Center for Innovation in Global Health (2022)

- Benjamin H. Kean Travel Fellowship in Tropical Medicine, American Society of Tropical Medicine & Hygiene (2014)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Benjamin Kean Travel Fellowship Award Committee, ASTMH (2023 - present)
- Member, Infectious Diseases Society of America (IDSA) (2020 - present)
- Associate, American College of Physicians (ACP) (2019 - present)
- Member, American Society of Tropical Medicine and Hygiene (ASTMH) (2011 - present)

PROFESSIONAL EDUCATION

- MS, Stanford University , Epidemiology and Clinical Research (2023)
- Residency, Internal Medicine, University of Maryland Medical Center (2020)
- MD, The Medical School for International Health (MSIH), Ben-Gurion University of the Negev Faculty of Health Sciences in affiliation with Columbia University's Vagelos College of Physicians and Surgeons (2017)
- BA, Cornell University , Anthropology (2012)

INTERNET LINKS

- ORCID iD: <https://orcid.org/0000-0002-7881-3605>
- Luby Lab: <https://lubylib.stanford.edu>
- NIH MyBibliography: <https://www.ncbi.nlm.nih.gov/myncbi/seth.hoffman.2/bibliography/public/>
- Stanford CIGH: <https://globalhealth.stanford.edu/center-postdoctoral-affiliates/>
- Stanford Woods Institute: <https://woods.stanford.edu/people/seth-ari-sim-son-hoffman>
- Twitter: <https://twitter.com/SethAHoffmanMD>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Clinical research to benefit underserved populations.

LAB AFFILIATIONS

- Stephen Luby, The Luby Lab (12/4/2020)

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Infectious Diseases (Fellowship Program)

Publications

PUBLICATIONS

- **Emerging and re-emerging pediatric viral diseases: a continuing global challenge.** *Pediatric research*
Hoffman, S. A., Maldonado, Y. A.
2023
- **Retrospective Review of Blood Culture-Confirmed Cases of Enteric Fever in Navi Mumbai, India: 2014-2018.** *The American journal of tropical medicine and hygiene*
Jayaprasad, N., Borhade, P., LeBoa, C., Date, K., Joshi, S., Shimpi, R., Andrews, J. R., Luby, S. P., Hoffman, S. A.
2023

- **Population structure and antimicrobial resistance patterns of Salmonella Typhi and Paratyphi A amid a phased municipal vaccination campaign in Navi Mumbai, India.** *mBio*
da Silva, K. E., Date, K., Hirani, N., LeBoa, C., Jayaprasad, N., Borhade, P., Warren, J., Shimpi, R., Hoffman, S. A., Mikoleit, M., Bhatnagar, P., Cao, Y., Haldar, et al
2023; e0117923
- **Programmatic Effectiveness of a Pediatric Typhoid Conjugate Vaccine Campaign in Navi Mumbai, India.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Hoffman, S. A., LeBoa, C., Date, K., Haldar, P., Harvey, P., Shimpi, R., An, Q., Zhang, C., Jayaprasad, N., Horng, L., Fagerli, K., Borhade, P., Chakraborty, et al
2023
- **Chronic Salmonella Typhi carriage at sites other than the gallbladder.** *PLoS neglected tropical diseases*
Hoffman, S. A., Sikorski, M. J., Levine, M. M.
2023; 17 (3): e0011168
- **Point-of-Care Ultrasound by Nonexpert Operators Demonstrates High Sensitivity and Specificity in Detecting Gallstones: Data from the Samoa Typhoid Fever Control Program.** *The American journal of tropical medicine and hygiene*
Hoffman, S., Desai, S., Sikorski, M., Fatupaito, G., Tupua, S., Thomsen, R., Rambocus, S., Nimarota-Brown, S., Punimata, L., Sialeipata, M., Tuilagi, C., Han, J., Robins-Browne, et al
2022
- **SARS-CoV-2 Neutralization Resistance Mutations in Patient with HIV/AIDS, California, USA.** *Emerging infectious diseases*
Hoffman, S. A., Costales, C., Sahoo, M. K., Palanisamy, S., Yamamoto, F., Huang, C., Verghese, M., Solis, D. C., Sibai, M., Subramanian, A., Tompkins, L. S., Grant, P., Shafer, et al
2021; 27 (10)
- **Tenacious Endemic Typhoid Fever in Samoa.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*
Sikorski, M. J., Desai, S. N., Tupua, S., Thomsen, R. E., Han, J., Rambocus, S., Nimarota-Brown, S., Punimata, L., Tusitala, S., Sialeipata, M., Hoffman, S. A., Tracy, J. K., Higginson, et al
2020; 71 (Supplement_2): S120-S126
- **Miliary pattern on chest imaging as a presentation of EGFR-negative primary lung adenocarcinoma.** *BMJ case reports*
Hoffman, S. A., Manski, S., Deepak, J.
2019; 12 (5)
- **Female Anopheles gambiae antennae: increased transcript accumulation of the mosquito-specific odorant-binding-protein OBP2.** *Parasites & vectors*
Hoffman, S. A., Aravind, L., Velmurugan, S.
2012; 5: 27
- **Programmed Cell Death during Malaria Parasite Infection of the Vertebrate Host and Mosquito Vector** *Programmed Cell Death in Protozoa*
Baton, L. A., Warr, E., Hoffman, S. A., Dimopoulos, G.
edited by Perez Martin, J.
Springer.2008: 74–90
- **Light deprivation affects larval development and arrestin gene expression in Anopheles stephensi.** *Journal of medical entomology*
Hoffman, S., Subramanian, G. M.
2005; 42 (5): 801-4