

II Fiocruz-NIAID symposium
**Global Health Threats in a
 Changing Environment**

Belém, PA – Brazil
 November 4-5 2024

(ATUALIZAÇÃO: 10/31/24)

SCIENTIFIC PROGRAM

MONDAY | DAY 1 – NOVEMBER 4th

OPENING REMARKS

8:30am - 9:00am

- **Leonardo José de Moura Carvalho, Hans Ackerman, Joel Veja-Rodriguez e Giselle M. Rachid Viana** (Organizers)
- **Kristin Kelling** (Attaché, Department of Health and Human Services, US Embassy, Brasília)
- **Livia Carácio Martins** (Director, IEC-SVSA, Belém)
- **Valdilea G. Veloso dos Santos** (Director, INI-Fiocruz, Rio de Janeiro)
- **Luiz Augusto Galvão** (Fiocruz Center for Global Health, Rio de Janeiro)

KEYNOTE ADDRESS

9:00am - 9:30am

Jeanne Marrazzo
 (Director, NIAID-NIH, Bethesda) – TBD – Advancing public health: infectious diseases and climate change research at NIAID.

DISCUSSION

9:30am - 9:40am

MODERATORS:

- **Hans Ackerman** (NIAID-NIH)
- **Beatriz Grinsztejn** (INI-Fiocruz)

SESSION 1

GEOGRAPHY, PHYSICAL DISRUPTION AND HEALTH

9:40am - 11:00am

André M. Siqueira

(INI-Fiocruz, Rio de Janeiro) - Infectious diseases in the Yanomami population.

María Elena Crespo Lopez

(UFPA, Belém) - Environmental pollution vs. public health surveillance in the Global South: the case-study of mercury in Brazil.

Courtney Murdock

(Cornell University, Ithaca) - Landscapes of infection: the role of the environment in shaping hostpathogen interactions, life history, and pathogen transmission.

Q&A (20 minutes)

MODERATORS:

- **Gabriel L. Wallau** (IAM-Fiocruz)
- **Helene M. Ueno** (USP)

11:00am - 11:20am

COFFEE BREAK

SUPPORT



REALIZATION



MINISTÉRIO DA SAÚDE



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SESSION 2	SEXUALLY TRANSMITTED INFECTIONS
11:20am - 12:15pm	<p>Beatriz Grinsztejn (INI-Fiocruz, Rio de Janeiro; NIH grantee; President of the International AIDS Society) - HIV Prevention and STIs in sexual and gender minorities: generating evidence to tackle inequities.</p> <p>Antonio Vallinoto (UFPA, Belém) - HTLV-1/2 infection in vulnerable populations of the Brazilian Amazonian, State of Pará.</p> <p>Q&A (15 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Ricardo Ishak (UFPA, Belém) • Vinicius Cotta de Almeida (IOC-Fiocruz)
12:15pm - 1:30pm	LUNCH
SESSION 3	VECTOR BORNE DISEASES AND ECOLOGY I
1:30pm - 3:10pm	<p>Pedro Vasconcelos (IEC-SVSA, Belém) - Factors associated with emergence and reemergence of arboviruses in the Brazilian Amazon.</p> <p>Neil Lobo (University of Notre Dame, Indiana) - Utilizing an expanded toolbox of vector control interventions in a changing environment.</p> <p>Luiz C. J. Alcântara (IRR-Fiocruz/UFMG, Belo Horizonte; NIH grantee, Arboviral Research Network – UWARN) – Intensive and optimized virus surveillance at the Public Health laboratories and riverside communities: influence of climate change on pathogen emergence and disease intensification.</p> <p>André L. Roque Rodrigues Roque (IOC-Fiocruz, Rio de Janeiro) - Ecological scenarios of the orally transmitted Chagas disease outbreaks in Brazil.</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Ana Yecê N. Pinto (IEC-SVSA) • Elizabeth F. Rangel (IOC-Fiocruz)

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3:10pm - 3:30pm	COFFEE BREAK
SESSION 4 VECTOR BORNE DISEASES AND ECOLOGY II	
3:30pm - 5:10pm	<p>Felipe G. Naveca (ILMD-Fiocruz) - Genetic epidemiology of viruses circulating in Amazonia.</p> <p>Tovi Lehman (NIAID-NIH, Rockville) – High-altitude windborne mosquitoes and pathogens: opportunities to monitor threats to public health, food security, and ecosystem stability.</p> <p>Dhelio B. Pereira (CEPEM-Rondonia, Porto Velho; NIH grantee, Amazonian Center of Excellence in Malaria Research) - An integrated and functional research plan on the Amazonian border: epidemiology, translational medicine and clinical research.</p> <p>Marshall E. Bloom (Rocky Mountain Laboratories, NIAID-NIH, Hamilton) - New dimensions in the study of tick-borne viruses.</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Rafael Maciel de Freitas (IOC-Fiocruz) • Aline R. Matos (IOC-Fiocruz)
6:00pm - 9:00pm	OFFICIAL DINNER WITH GUEST SPEAKERS AND INSTITUTIONS INVOLVED

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TUESDAY | DAY 2 – NOVEMBER 5th

KEYNOTE ADDRESS

8:30am - 9:00am	<p>Marco Krieger (Vice-President, Fiocruz, Rio de Janeiro) - How Biomanguinhos take on advanced therapies will impact public health in Brazil</p>
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DISCUSSION

9:00am - 9:10am	<p>MODERATORS:</p> <ul style="list-style-type: none"> • Leonardo José de Moura Carvalho (IOC-Fiocruz) • Giselle Maria Rachid Viana (IEC-SVSA)
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SESSION 5

IMMUNOPREVENTION AND CONTROL

9:10am - 10:50am	<p>Robert Seder (NIAID-NIH, Bethesda) - Role of vaccines and monoclonals in response to emerging and re-emerging infectious disease threats.</p> <p>Mauricio L. Nogueira (Famerp, São José do Rio Preto; NIH grantee, CREATENEO, Creid) – Vaccines against arboviruses.</p> <p>Luis Vicente Rizzo (Albert Einstein Hospital, São Paulo) - The effectiveness of the COVID-19 vaccines in the prevention of post-COVID conditions.</p> <p>Gregory Lanzaro (University of California, Davis) - Mendel meets mosquito: the application of gene drive for the elimination of malaria.</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Alexandre Macedo de Oliveira (CDC, Atlanta) • Flavia L. R. Gomes (IOC-Fiocruz)
10:50am - 11:10am	COFFEE BREAK

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SESSION 6		HOST-PARASITE INTERACTIONS AND DISEASE TRANSMISSION
11:10am - 12:30pm	<p>Jesus Valenzuela (NIAID-NIH, Rockville) – Impact of vector derived factors on Leishmania establishment and determinants of vector infection and transmission.</p> <p>Joel Vega-Rodriguez (NIAID-NIH, Rockville) – How mosquito adaptation to hematophagy shaped the transmission of malaria parasites.</p> <p>Luis Fernando Chavez (Indiana University, Bloomington) - Health policy impacts on malaria transmission in Costa Rica.</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Stefanie C. P. Lopes (ILMD-Fiocruz) • Graziela M. Zannini (INI-Fiocruz) 	
12:30 pm - 1:50pm	LUNCH / POSTER SESSION	
SESSION 7		TRANSDISCIPLINARY ENGAGEMENT AND DATA INTEGRATION
1:50pm - 3:10pm	<p>Claudia Codeço (PROCC-Fiocruz, Rio de Janeiro) - Trajetorias: a dataset of environmental, epidemiological and economic indicators for the Brazilian Amazon.</p> <p>Helder Nakaya (Albert Einstein Hospital, São Paulo; NIH grantee, SARS-CoV-2 mRNA Vaccine-induced Immunity) – From precision medicine to epidemiology: harnessing AI against global health threats</p> <p>Sadie Ryan (University of Florida, Gainesville) - TBD</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none"> • Anderson M. Herculano (UFPA) • Francisco Acácio Alves (UFPA) 	

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	CLOSING REMARKS
3:10pm - 3:30pm	Leonardo José de Moura Carvalho, Hans Ackerman, Joel Veja-Rodriguez e Giselle Maria Rachid Viana
3:30pm - 4:30pm	POSTER SESSION
3:30pm - 5:30pm	NIH GRANT WRITING WORKSHOP

DEMYSTIFYING THE NIH GRANT PROCESS:

- NIAID research concepts, development of priorities and funding opportunity development
- Development of a grant application for NIH
- The grant submission process: foreign eligibility, administrative steps
- The NIH peer review process, including what reviewers look for and upcoming changes
- How to interpret summary statements, how to find contacts at NIH
- Panel Discussion and Q&A, with Panel (5-6 Members) Including: NIAID Program Officers, NIH-funded investigators (including Brazilian investigators with successful NIH grant applications) and investigators who have served as NIH peer reviewers