

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

Belém, PA – Brazil
November 4-5 2024

SCIENTIFIC PROGRAM

REALIZAÇÃO



FIOCRUZ



National Institute of
Allergy and
Infectious Diseases



**INSTITUTO
EVANDRO
CHAGAS**
SECRETARIA DE VIGILÂNCIA
EM SAÚDE E AMBIENTE

ORGANIZAÇÃO



ML EVENTOS

II Fiocruz-NIAID symposium
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DAY 1 – NOVEMBER 4th

8:30 AM - 9:00 AM	Opening Remarks	<ul style="list-style-type: none">• Leonardo J. M. Carvalho, Hans Ackerman, Joel Veja-Rodriguez, Giselle M. Rachid Viana (Organizers)• Fiocruz Presidency• NIAID Direction• IEC Direction
9:00 AM - 9:30 AM	Keynote Address	Jeanne Mrazzco (Director, NIAID-NIH, Bethesda) – TBD
9:30 AM - 9:40 AM	Discussion	MODERATORS: <ul style="list-style-type: none">• Hans Ackerman (NIAID-NIH)• Beatriz Grinsztejn (INI-Fiocruz)

SESSION 1

9:40 AM - 11:00 AM	GEOGRAPHY, PHYSICAL DISRUPTION AND HEALTH	<p>André M. Siqueira (INI-Fiocruz, Rio de Janeiro) - Infectious diseases in the Yanomami population.</p> <p>Maria Elena Crespo Lopez (UFPA, Belém) - Environmental pollution vs. public health surveillance in the Global South: the case-study of mercury in Brazil.</p> <p>Courtney Murdock (Cornell University, Ithaca) - Landscapes of infection: the role of the environment in shaping hostpathogen interactions, life history, and pathogen transmission.</p> <p>Q&A (20 minutes)</p> <p>MODERATORS:</p> <ul style="list-style-type: none">• Gabriel L. Wallau (IAM-Fiocruz)• Helene M. Ueno (USP)
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11:00 AM - 11:20 AM

COFFEE BREAK

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DAY 1 – NOVEMBER 4th

SESSION 2

11:20 AM - 12:15 AM

SEXUALLY TRANSMITTED INFECTIONS

Beatriz Grinsztejn (INI-Fiocruz, Rio de Janeiro; NIH grantee, HIV Vaccines Clinical Trials Network Leadership and Operations Center) - HIV Prevention and STIs in sexual and gender minorities: generating evidence to tackle inequities

Antonio Vallinotto (UFPA, Belém) - HTLV-1/2 infection in vulnerable populations of the Brazilian Amazonian, State of Pará.

Q&A (15 minutes)

MODERATORS:

- **Ricardo Ishak** (UFPA, Belém)
- **Lilian R. P. Riccio** (IOC-Fiocruz)

12:15PM - 1:30 PM

LUNCH

SESSION 3

1:30 PM - 3:10 PM

VECTOR BORNE DISEASES AND ECOLOGY I

Pedro Vasconcelos (IEC-SVSA, Belém) - Factors associated with emergence and reemergence of arboviruses in the Brazilian Amazon.

Neil Lobo (University of Notre Dame, Indiana) - Utilizing an expanded toolbox of vector control interventions in a changing environment.

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

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DAY 1 – NOVEMBER 4th

SESSION 3

1:30 PM - 3:10 PM	VECTOR BORNE DISEASES AND ECOLOGY I	<p>André L. Roque Rodrigues (IOC-Fiocruz) - 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 Yece N. Pinto (IEC-SVSA)• Elizabeth F. Rangel (IOC-Fiocruz)
3:10 PM - 3:40 PM	Keynote Address	<p>Anthony James (University of California, Irvine) - Mosquito population modification and the malaria eradication agenda.</p>
3:40 PM - 3:50 PM	Discussion	<p>MODERATORS:</p> <ul style="list-style-type: none">• Alda Maria da Cruz (DEDT-SVSA; IOC-Fiocruz)• Joel Vega-Rodriguez (NIAID-NIH)
3:50 PM – 4:10 PM	COFFEE BREAK	

SESSION 4

2:15 PM - 3:30 PM	VECTOR BORNE DISEASES AND ECOLOGY II	<p>Felipe Naveca (ILMD-Fiocruz): “Genetic epidemiology of viruses circulating in Amazonia.”</p> <p>Tovi Lehman (NIAID) – “High-altitude windborne mosquitoes and pathogens: opportunities to monitor threats to public health, food security, and ecosystem stability.”</p> <p>(Continue)</p>
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SESSION 4

2:15 PM - 3:30 PM

VECTOR BORNE DISEASES AND ECOLOGY II

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.

Marshall E. Bloom (Rocky Mountain Laboratories, NIAID-NIH, Hamilton) - (provisional) Biology and molecular pathogenesis of acute and persistent tickborne flavivirus infections

Q&A (20 minutes)

MODERATORS:

- **Rafael Maciel de Freitas** (IOC-Fiocruz)
- **Graziela M. Zannini** (INI-Fiocruz)

End Program Day 1

6:30 PM - 9:30 PM

**OFFICIAL DINNER WITH GUEST SPEAKERS AND
INSTITUTIONS INVOLVED**

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DAY 2 – NOVEMBER 5th

8:30 AM - 9:00 AM

Keynote Address

Marco Krieger (Vice-President, Fiocruz, Rio de Janeiro) - How Biomanguinhos take on advanced therapies will impact public health in Brazil

9:00 AM - 9:10 AM

Discussion

Moderators:

- **Leonardo J. M. Carvalho** (IOC-Fiocruz)
- **Giselle M. Rachid Viana** (IEC-SVSA)

SESSION 5

9:10 PM - 10:30 PM

IMMUNOPREVENTION AND CONTROL

Mauricio L. Nogueira (Famerp, São José do Rio Preto) - Vaccines against arboviruses

Luis Vicente Rizzo (Albert Einstein Hospital, São Paulo) - The effectiveness of the COVID-19 vaccines in the prevention of post-COVID conditions

Robert Seder (NIAID-NIH, Bethesda) - Role of vaccines and monoclonals in response to emerging and re-emerging infectious disease threats

Q&A (20 minutes)

MODERATORS:

- **Alexandre Macedo** (CDC, Atlanta)
- **TBD**

10:30 AM - 10:50 AM

COFFEE BREAK

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DAY 2 – NOVEMBER 5th

SESSION 6

10:50 AM - 12:10 PM

HOST-PARASITE INTERACTIONS AND DISEASE TRANSMISSION

Jesus Valenzuela (NIAID-NIH, Rockville) – Impact of vector derived factors on Leishmania establishment and determinants of vector infection and transmission

Joel Vega-Rodriguez (NIAID-NIH, Rockville) – (provisional) The role of malaria vector and host factors for sporozoite infectivity

Luis Fernando Chavez (Indiana University, Bloomington) - Health policy impacts on malaria transmission in Costa Rica

Q&A (20 minutes)

MODERATORS:

- **Helder Nakaya** (Albert Einstein Hospital)
- **Anderson M. Herculano** (UFPA)

12:10 PM - 1:30 AM

LUNCH / POSTER SESSION

SESSION 7

1:30 PM - 3:10 PM

TRANSDISCIPLINARY ENGAGEMENT AND DATA INTEGRATION

Emily Ricotta (Uniformed Services University, Bethesda) - Strength in numbers – how data integration can accelerate breakthroughs in health & climate science

Claudia Codeço (PROCC-Fiocruz, Rio de Janeiro) - Trajetorias: a dataset of environmental, epidemiological and economic indicators for the Brazilian Amazon

TBD - TBD

Helder Nakaya (Albert Einstein Hospital, São Paulo) - From precision medicine to epidemiology: harnessing AI against global health threats

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DAY 2 – NOVEMBER 5th

SESSION 7

1:30 PM - 3:10 PM	TRANSDISCIPLINARY ENGAGEMENT AND DATA INTEGRATION	Q&A (20 MINUTES) MODERATORS: <ul style="list-style-type: none">• Anderson M. Herculano (UFPA)• Francisco Acácio Alves (UFPA)
3:10 PM - 3:30 PM	Summary and prospects: Lee Hall (NIAID-NIH, Rockville)	
3:30 PM - 3:40 PM	Closing remarks	
3:40 PM - 5:00 PM	POSTER SESSION	
5:00 PM - 6:00 PM	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