



# Enhancing Global Arboviruses Preparedness and Response Through Research Collaboration

*Brazil-France scientific workshop on Arbovirus*

October 30<sup>th</sup> – 31<sup>st</sup>, 2024  
Belém, Pará, Brazil

Day 1, Wednesday October 30 <sup>th</sup> , 2024		
9:00 – 9:45	<b>Registration</b>	
<b>Session 1 Welcoming and introduction</b>		
9:45 – 10:00 am		
9:45 – 9:50 am	Research collaboration perspectives in Arbovirology between Brazil and France by Instituto Evandro Chagas	<b>Livia Caricio Martins</b> IEC/SVSA/MS
9:50 – 9:55 am	Research collaboration perspectives in Arbovirology between Brazil and France by ANRS MIE	<b>Éric D’Ortenzio</b> ANRS MIE
9:55 – 10:00 am	Welcoming to Brazilian and French researchers by Embassy	<b>Sophie Jacquet</b> Embassy France in Brazil
<b>Session 2 Newly identified and poorly studied South American arboviruses: the case of <i>Bunyaviruses</i> and <i>Flaviviruses</i></b>		
10:00 – 11:50 am		
<i>Chairs: Flávia Barreto (Fiocruz, Rio de Janeiro, Brazil)/ Xavier de Lamballerie (Université Marseille, France)</i>		
10:00 – 10:25 am	Circulation of bunyaviruses and poorly studied flaviviruses: a perspective based on the Brazilian experience	<b>Daniele Medeiros</b> IEC, Brazil
10:25 – 10:50 am	Circulation of bunyaviruses and poorly studied flaviviruses: a perspective based on the French Guiana experience	<b>Dominique Rousset</b> IPG, French Guiana
10:50 – 11:15 am	Discovery of new sylvatic arboviruses and the potential for their emergence in human health: an entomological and environmental perspective based on the Brazilian experience	<b>Pedro Vasconcelos</b> IEC, UEPA, Brazil
11:15 – 11:40 am	Discovery of new sylvatic arboviruses and the potential for their emergence in human health: an entomological and environmental perspective based on the French Guiana experience	<b>Jean-Bernard Duchemin</b> IPG, French Guiana
<b>Questions and Discussion</b>		
<b>Extra Session Oropouche virus disease outbreak: overview, gaps and unanswered questions</b>		
11:50 – 12:30 am		
<i>Chairs: Livia Vinhal Frutuoso (CGARB, Brasília, Brazil)/ Xavier de Lamballerie (Université Marseille, France)</i>		



11:50 –12:05 am	Oropouche virus disease outbreak: severe medical complications and newborn neurological impairment.	<b>Socorro Azevedo</b> IEC, Brazil
12:05 –12:20 am	Oropouche virus disease outbreak: entomology and vector competence	<b>Sâmia Sena</b> IEC, Brazil
<b>Questions and Discussion</b>		
12:30 - 2:00 pm	<b>Lunch Break</b>	
<b>Session 3</b>	<b>Genomics of arboviruses and their vectors: right time for a Franco-Brazilian revolution</b>	
2:00 – 3:50 pm	<i>Chairs: Felipe Naveca (Fiocruz, Amazônia, Brazil)/Anna-Bella Failloux (IPP, France)</i>	
2:00 – 2:25 pm	Arbovirus genomics: current situation and outlook in France	<b>Raphaëlle Klitting</b> French National Reference Center for Arboviruses, France
2:25 – 2:50 pm	Arbovirus genomics: current situation and outlook in Brazil	<b>Ana Cecília Cruz</b> IEC, Brazil
2:50 – 3:15 pm	Vector genomics and population genetics: current situation and outlook in France	<b>Diego Ayala</b> IRD, France
3:15 – 3:40 pm	Vector genomics and population genetics: current situation and outlook in Brazil	<b>Gabriel Wallau</b> Fiocruz Pernambuco, Brazil
<b>Questions and Discussion</b>		
3:50 - 4:10 pm	<b>Coffee break</b>	
<b>Session 4</b>	<b>From research to implementation</b>	
4:10 – 6:25 pm	<i>Chairs: Valéria Carvalho (IEC, Brazil)/ Christophe Peyrefitte (IPG, French Guiana)</i>	
4:10 - 5:25 pm	Innovations in entomological surveillance: advances in vector competence studies and innovative arbovirus detection strategies.	<b>Anna-Bella Failloux</b> IPP, France  <b>Albin Fontaine</b> Irba, France  <b>Jean-Bernard Duchemin</b> IPG, French Guiana
5:25 - 5:50 pm	Perspectives from innovative vector control techniques: a perspective based on the Brazilian experience	<b>Rosemary Aparecida Roque</b> INPA, Brazil
5:50 - 6:15 pm	Development of Innovative Approaches for the Control and Surveillance of Arbovirus vectors: insights from a French-Brazilian experience	<b>Vincent Corbel</b> IRD, France
<b>Questions and Discussion</b>		



## Day 2, Thursday October 31<sup>st</sup>, 2024

<b>Session 5</b>		
<b>Diagnosis approaches of arbovirus infections: strengths, weaknesses and areas for improvement</b>		
<b>9:00 – 10:00 am</b>	<i>Chairs: Jannifer Chiang (IEC, Brazil)/ Dominique Rousset (IPG, French Guiana)</i>	
<b>9:00 – 9:25 am</b>	Arbovirus serological diagnostics in humans: strengths, weaknesses and areas for improvement	<b>Daniele Henriques Ventura</b> IEC, Brazil
<b>9:25 – 9:50 am</b>	Arbovirus molecular diagnostics in humans: strengths, weaknesses and areas for improvement	<b>Jessica Vanhomwegen</b> IPP, France
<b>Questions and Discussion</b>		
<b>Session 6</b>		
<b>Perspectives and closing remarks</b>		
<i>Chairs: Pedro Vasconcelos (IEC, UEPA, Brazil)/ Éric D’Ortenzio (ANRS MIE, France)</i>		
<b>10:00 - 10:25 am</b>	<u>ArboFrance</u>	<b>Xavier de Lamballerie</b> Université Marseille, France
<b>10:25 - 12:10 am</b>	<p><u>Panel Discussion</u></p> <p>Perspectives, priorities and challenges: researches in collaboration between Brazil and France to address Arboviruses unmet needs</p> <p><i>Discussion with all</i></p>	<p><b>Anna-Bella Failloux</b> IPP, France</p> <p><b>Pedro Vasconcelos</b> IEC, UEPA, Brazil</p> <p><b>Jean-Bernard Duchemin</b> IPG, French Guiana</p> <p><b>Livia Caricio Martins</b> IEC/SVSA/MS</p> <p><b>Xavier de Lamballerie</b> Université Marseille, France</p>
<b>Session 7</b>		
<b>Acknowledgements</b>		
<b>12:10 – 12:30 am</b>		
<b>12:10 - 12:20 am</b>		<b>Livia Caricio Martins</b> IEC/SVSA/MS
<b>12:20 - 12:30 am</b>		<b>Éric D’Ortenzio</b> ANRS MIE
<b>12:30 - 2:00 pm</b>		
<b>Lunch Break</b>		



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**BRAZIL-FRANCE**  
scientific workshop on  
**ARBOVIRUS**

**2:00 – 4:00 pm** Scientific discussion for planning and development of partnership projects in Arboviruses by researchers from Brazil and France

**Working groups**

WG 1: Arboviruses surveillance - Moderator: Dominique Rousset (IPG, French Guiana)

WG 2: Entomological surveillance and vector control - Moderator: Joaquim Neto (IEC, Brazil)

WG 3: Genomics of arboviruses and vectors - Moderator: Diego Ayala (IRD, France)

WG 4: Diagnosis approaches of arbovirus infections - Moderator: Daniele Henriques Ventura (IEC, Brazil)

**4:10 - 4:30 pm** Coffee break

4:30 - 5:10 pm	Summary of the working groups discussions (WG1, WG2, WG3, WG4 restitution)	By the working group moderators
4:30 - 4:40 pm	Debriefing of working group 1 (WG1)	<b>Dominique Rousset</b> IPG, French Guiana
4:40 - 4:50 pm	Debriefing of working group 2 (WG2)	<b>Joaquim Neto</b> IEC, Brazil
4:50 - 5:00 pm	Debriefing of working group 3 (WG3)	<b>Diego Ayala</b> IRD, France
5:00 - 5:10 pm	Debriefing of working group 4 (WG4)	<b>Daniele Henriques Ventura</b> IEC, Brazil
5:15 - 6:00 pm	<b>Planned visit to Instituto Evandro Chagas Section of Arbovirology and Hemorrhagic Fever</b>	

**Scientific Advisory Board**

Lívia Caricio, IEC, Brazil  
Jannifer Chiang, IEC, Brazil  
Pedro Vasconcelos IEC, Brazil  
André Cabié, ESR, Martinique  
Anna-Bella Failloux, IP, France  
Éric D’Ortenzio, ANRS MIE, France  
Nacer Boubenna, Ambassade de France au Brésil, Brazil

Lívia Casseb, IEC, Brazil  
Joaquim Neto, IEC, Brazil  
Christophe Peyrefitte, IPG, French Guiana  
Xavier De Lamballerie, Marseille University, France  
Nathalie de Castro, Hôpital Saint Louis, France  
Keyla Almeida, ANRS MIE, France  
Lorelei Corsaut, ANRS MIE, France