

**XXVII SEMINÁRIO LAVERAN & DEANE SOBRE MALÁRIA  
ITACURUÇÁ-RJ, 2<sup>nd</sup> to 6<sup>th</sup> , SEPTEMBER, 2024  
PROGRAM**

**Coordinator:** Cláudio Tadeu Daniel-Ribeiro

**Organizers:** Cláudio Tadeu Daniel-Ribeiro (IOC, Fiocruz, RJ)  
Maria de Fátima Ferreira da Cruz (IOC, Fiocruz, RJ)

**Senior Professors:**

Ademir Martins Junior (IOC/Fiocruz, RJ)  
Antônio Pacheco (PROCC/Fiocruz, RJ)  
Catherine Lavazec, (CNRS, France)  
Daniel Antunes Maciel Villela (PROCC/Fiocruz, RJ)  
Debora Guerra Peixe, (USP-SP)  
João Hermínio Martins da Silva, (Fiocruz Ceará, CE)  
Georges Snounou (Institut Pasteur - France)  
Mariano Gustavo Zalis (UFRJ, RJ)  
Mathieu Nacher (Centre Hospitalier de Cayenne/INSERM, French Guiana)  
Patrícia Cuervo Escobar (IOC/Fiocruz, RJ)  
Ricardo Lourenço de Oliveira (IOC/Fiocruz, RJ)  
Sílvia Beatriz Boscardin (USP-SP)  
Vanessa Salete de Paula (IOC/Fiocruz, RJ)

**Rapporteur Professors:**

Djane Clarys Baía da Silva (FMT-AM)  
Pablo Secato Fontoura (CEMA/DEDT/SVSA-DF)  
Luciane Storti de Melo (UFS,SE)

**Brazilian Malaria Elimination Coordinator:**

Alexander Vargas (CEMA/DEDT/SVSA-DF)

**Biomanguinhos Speaker**

Patrícia Alvarez, PhD

**Sponsors:** Instituto Oswaldo Cruz / Fiocruz  
Brazilian Ministry of Health Surveillance (CEMA/DEDT/SVSA-DF)  
French Government  
Biomanguinhos /Fiocruz

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**SEPTEMBER 2<sup>nd</sup>, 2024 – MONDAY**

**3h00 pm:** Departure from Rio de Janeiro - campus of Fiocruz.

**5h30 pm:** Arrival at the Hotel Pierre – Itacuruçá.

**6h30 pm:** Welcome speech, introduction of students and professors, distribution of documents and identification cards.

***Professors Cláudio Tadeu Daniel-Ribeiro and Maria de Fátima Ferreira da Cruz***

**7h00 pm: Conference**

Recombinant monoclonal antibodies as tools for developing vaccines and treatments against malaria.

**Professor Silvia Boscardin (USP-SP)**

**8h00 pm:** Cocktail and dinner

**SEPTEMBER 3<sup>rd</sup>, 2024 – TUESDAY**

**7h30- 8h30 am:** Breakfast

**8h30–8h55 am: Conference:** *Malaria in Brazil: epidemiological scenarios, perspectives and challenges for elimination*

**Professor Alexander Vargas (SVSA - DF)**

**9h00-9h25 am: Conference:** *Detection, typing, and genomic analysis of Plasmodium in blood donors in Brazil.*

**Professor Patrícia Alvarez (Biomanguinhos- RJ)**

**9h30–10h20am: Presentation of MSc student Cindy Megumi Kimura**

**Project :** *“Identification of Molecular Markers for Susceptibility to Infection by Human Plasmodium Species in the Primary Neotropical Malaria Vector, Nyssorhynchus darlingi”*

**10h20-10h40 am:** Coffee break

**10h40–11h30 am: Presentation of MSc student Cristopher Bryan da Silva Gomes**

**Project:** *“Characterization of etrapm family’s members as vaccine candidates for malaria Vivax”*

**11h30 am-12h30 pm:** Discussion of  $\alpha$ x,  $\beta$ y e  $\gamma$ z groups

**12h30 pm:** Lunch

**2h30–3h20 pm: Presentation of PhD student Pamela Rosa Gonçalves**

**Project:** *“Investigation of neuroimmune aspects of cognitive dysfunction in non-severe experimental malaria”*

**3h20 pm–4h10pm: Presentation of MSc student Nadia Roseline Frida Kèmi AHLONSOU**

**Project:** *“Polymorphisms of the pfk13 gene associate with chemoresistance of Plasmodium falciparum to artemisinin in areas of Roraima state in the era of elimination”*

**4h10–4h30 pm:** Coffee break

**4h30–5h20 pm: Presentation of MSc student Felipe Nery Saldanha Braga Project:**

*“The Influence of viral hepatitis on the incidence and recurrence of Plasmodium vivax infection in the state of Amazonas, Brazil”*

**5h20–6h20 pm:** Discussion of  $\alpha$ z,  $\beta$ x e  $\gamma$  y groups

**8h00 pm:** Dinner

<b>SEPTEMBER 4th, 2024– WEDNESDAY</b>
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**7h30 – 8h30 am:** Breakfast

**8h30-8h55 am: Conference:** *How to use public data to ask scientific questions.*

**Professor Débora Guerra Peixe (USP-SP)**

**9h00-9h25 am: Conference:** *Scientific writing: putting the emphasis where it counts*

**Professor Mathieu Nacher (Centre Hospitalier de Cayenne/INSERM, French Guiana)**

**9h30–10h20 am: Presentation of MSc student Gabriel Montoia da Silva**

**Project:** *“Evaluation of the genetic variability of genes encoding histidine-rich protein 2 and 3 of Plasmodium falciparum and the impact on the diagnosis of malaria”*

**10h20–10h40 am:** Coffee break

**10h40–11h30 am: Presentation of MSc student Hiran Satiro Souza da Gama -**

**Project:** *“Evaluation of the effectiveness of educational/informational materials combined with a mobile health (mHealth) strategy in promoting adherence to vivax malaria treatment.”*

**11h30 am–12h30 pm:** Discussion of  $\alpha$ y,  $\beta$ z e  $\gamma$  x groups

**12h30 pm:** Lunch

**2h00–2h50 pm: Presentation of PhD student João Pedro da Cunha Tavares**  
**Project:** “*Characterization of recurrent episodes of vivax Malaria and identification of predictive biomarkers for disease relapse.*”

**2h50–3h40 pm: Presentation of MSc student Marcia Viviana Gonçalves Vallejos**  
**Project:** “*Evaluation of the influence of gametocytes on qPCR positivity in vivax Malaria recurrences using Pv 18S, Pv mtCOX1, and Pvr47*”

**3h40–4h30 pm:** Discussion of  $\alpha$ x,  $\beta$ y e  $\gamma$ z groups

**4h30–4h50 pm:** Coffee break

**4h50–5h40 pm: Presentation of MSc Student Marina Noetzold**  
**Project:** “*Zoonotic Malaria: study of the potential transmission of Plasmodium spp Infection from neotropical primates*”

**5h40–6h30 pm: Presentation of PhD student Pablo Sebastian Tavares Amaral -**  
**Project:** “*Effect of the Malaria Potential Assessment of Large Projects in the Brazilian Amazon Region on Entomological and Epidemiological Indicators of Malaria*”

**6h30–7h30 pm:** Discussion of  $\alpha$ z,  $\beta$ x e  $\gamma$ y groups

**8h30 pm:** Dinner

<b>SEPTEMBER 5th, 2024– THURSDAY</b>
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**7h30 – 8h30 am:** Breakfast

**8h30–9h20 am: Presentation of PhD student Marcelo Cerilo dos Santos Filho**  
**Project:** “*Cytochrome P450 in the Treatment of Malaria caused by Plasmodium vivax from Brazilian Amazon: Searching for Biomarkers to Predict Therapeutic Results*”

**9h20–10h10 am: Presentation of PhD student Marcos Paulo de Oliveira**  
**Project:** “*Comparative assessment of the immune response of recombinant Plasmodium vivax erythrocyte binding proteins (PvRBPs) family in mice and individuals from malaria-endemic areas*”

**10h10–10h30 am:** Coffee break

**10h30–11h20 am: Presentation of PhD student Tuany Rodrigues**  
**Project:** “*Genomic diversity and Malaria diagnosis: a study of the population structure and deletions in the pfhrp2 and pfhr3 Genes of Plasmodium falciparum in Brazil.*”

**11h20am- 12h10 pm: Presentation of PhD student Winni Alves Ladeia**  
**Project:** “*Superspreaders and residual malaria transmission in the main urban hotspot of Brazil*”

12H10 – 13H10: Discussion of  $\alpha$ ,  $\beta$  e  $\gamma$  groups

**13H10:** Lunch

**3h30 – 4h30 pm:** Meeting of tutors and students

**4h30 – 4h45 pm:** Coffee break

**4h45 – 6h45 pm:** Meeting of professors for final discussion about the thesis projects and preparation of the final document with suggestions for the students.

Meeting of students to prepare the final report taking into account suggestions received during the seminar.

**6h45 – 8h00 pm:** Consolidation of the final report on the thesis projects with suggestions for the students (professors) and the students' final reports. Filling out evaluation forms.

**8h00 pm:** Dinner

<b>SEPTEMBER 06Th, 2024- FRIDAY</b>
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**7h30 – 8h30 am:** Breakfast

**8h30am-12h00 am:** Presentation of the students' critical analysis of the impact and relevance of the comments and suggestions received for their thesis projects and how they intend to absorb them. Final comments from students and lecturers on their experience with the *Seminário*, with their opinions on the importance of the format and content on the usefulness of the event for the training of postgraduates.

Certification.

**12h00 pm:** Lunch

**2h00 pm:** Departure to Rio de Janeiro (Fiocruz)

## STUDENTS AND TUTORS LIST

STUDENTS	TUTORS
<b>Cindy Megumi Kimura</b>	<b>Ademir Martins Junior</b>
	<b>Ricardo Lourenço de Oliveira</b>
<b>Cristopher Bryan da Silva Gomes</b>	<b>Silvia Beatriz Boscardin</b>
	<b>Luciane Storti de Melo</b>
<b>Felipe Nery Saldanha Braga</b>	<b>Mathieu Nacher</b>
	<b>Vanessa Salete de Paula</b>
<b>Gabriel Montoia da Silva</b>	<b>Maria de Fátima Ferreira da Cruz</b>
	<b>Catherine Lavazec</b>
<b>Hiran Satiro Souza da Gama</b>	<b>Djane Clarys Baía da Silva</b>
	<b>Pablo Secato Fontoura</b>
<b>João Pedro da Cunha Tavares</b>	<b>João Hermínio Martins</b>
	<b>Georges Snounou</b>
<b>Marcelo Cerilo dos Santos Filho</b>	<b>Silvia Beatriz Boscardin</b>
	<b>Mariano Gustavo Zalis</b>
<b>Marcia Viviana Gonçalves Vallejos</b>	<b>Maria de Fátima Ferreira da Cruz</b>
	<b>Pablo Secato Fontoura</b>
<b>Marcos Paulo de Oliveira</b>	<b>Cláudio Tadeu Daniel-Ribeiro</b>
	<b>Daniel Antunes Maciel Villela</b>
<b>Marina Noetzold</b>	<b>Ricardo Lourenço de Oliveira</b>
	<b>Catherine Lavazec</b>
<b>Nadia Roseline Frida Kèmi Ahlonsou</b>	<b>Catherine Lavazec</b>
	<b>Patricia Cuervo Escobar</b>

<b>Pablo Sebastian Tavares Amaral</b>	<b>Antônio Guilherme Fonseca Pacheco</b>
	<b>Daniel Antunes Maciel Villela</b>
	<b>Djane Clarys Baía da Silva</b>
<b>Pamela Rosa Gonçalves</b>	<b>Georges Snounou</b>
	<b>João Hermínio Martins</b>
<b>Tuany Rodrigues</b>	<b>Debora Guerra Peixe</b>
	<b>Mariano Gustavo Zalis</b>
<b>Winni Alves Ladeia</b>	<b>Mathieu Nacher</b>
	<b>Antônio Guilherme Fonseca Pacheco</b>

## GROUPS OF DISCUSSION

PROFESSORS AND REPORTS	STUDENTS AND AUDITORS
<p><b>Group <math>\alpha</math></b></p> <p><b>Fátima Cruz</b>            Ademir Martins Jr.            Catherine Lavazec            Daniel Villela            Vanessa de Paula            Pablo Secato</p>	<p><b>Group x</b></p> <p>Pamela            Nadia            Winni            Cristopher            Leticia            Tuany</p>
<p><b>Group <math>\beta</math></b></p> <p><b>Cláudio Ribeiro</b>            Débora Peixe            Antonio Pacheco            Georges Snounou            Mariano Zalis            Djane Baía</p>	<p><b>Group y</b></p> <p>Felipe Nery            Cindy            Hiran            Marcia            Marcos Paulo            Saiqa            Gabriel</p>
<p><b>Group <math>\gamma</math></b></p> <p><b>Ricardo Lourenço</b>            Mathieu Nacher            Silvia Boscardin            Luciane Melo            Patricia Cuervo            João Hermínio</p>	<p><b>Group z</b></p> <p>Marina            Pablo Amaral            João Pedro            Marcelo            Julia            Felipe Saraiva</p>



## PRESENTING STUDENTS X DISCUSSION STARTER STUDENT

<b>PRESENTING STUDENT</b>	<b>STARTER STUDENT</b>
Cindy Megumi Kimura	Winni Alves Ladeia
Cristopher Bryan da Silva Gomes	Pablo Sebastian Tavares Amaral
Pamela Rosa Gonçalves	Tuany Rodrigues
Nadia Roseline Frida Kèmi Ahlonsou	Marina Noetzold
Felipe Nery Saldanha Braga	Marcelo Cerilo dos Santos Filho
Gabriel Montoia da Silva	Marcos Paulo de Oliveira
Hiran Satiro Souza da Gama	Nadia Roseline Frida Kèmi Ahlonsou
João Pedro da Cunha Tavares	Pamela Rosa Gonçalves
Marcia Viviana Gonçalves Vallejos	Cindy Megumi Kimura
Marina Noetzold	Cristopher Bryan da Silva Gomes
Pablo Sebastian Tavares Amaral	Felipe Nery Saldanha Braga
Marcelo Cerilo dos Santos Filho	Hiran Satiro Souza da Gama
Marcos Paulo de Oliveira	Marcia Viviana Gonçalves Vallejos
Tuany Rodrigues	Gabriel Montoia da Silva
Winni Alves Ladeia	João Pedro da Cunha Tavares