

**INTERNATIONAL COURSE ON DENGUE AND OTHER EMERGING ARBOVIRUSES, 2024.  
PROGRAM OF PRACTICAL SESSIONS 26-30 AUGUST**

PRACTICAL COURSE. GROUP VIROLOGY 1. BIOINFORMATIC FOR DENGUE		
Monday 26		
Hora	Topic	Professors
09:00- 09:15	Registro de participantes	
9:15-9:30	Participant introduction	María G Guzmán, IPK, Cuba, Leticia Franco, PAHO
9:30-10:00	Introduction to the practical course and objectives	María G Guzmán, IPK, Cuba, Leticia Franco, PAHO, Marta Giovanetti, FIOCRUZ, Brasil, Estela Cordero, INCIENSA, Costa Rica, Felipe Naveca, FIOCRUZ, Brasil.
10:00-12:30	<b>Presentation session</b> <ul style="list-style-type: none"> <li>• ViGenDA, genomic surveillance of Arboviruses in the Americas region</li> <li>• Application of genomic surveillance to the study of outbreaks, South-South cooperation</li> <li>• OROV genomic surveillance</li> <li>• Genomic surveillance of Arboviruses, experience of Cuba</li> </ul>	<ul style="list-style-type: none"> <li>• Leticia Franco</li> <li>• Marta Giovanetti</li> <li>• Felipe Naveca, FIOCRUZ, Brasil</li> <li>• Melissa Perez, IPK, Cuba</li> </ul>
12:30 –14:00	<b>LUNCH</b>	

14:00--16:00	Introduction to Bioinformatic & Linux system	Estela Cordero
<b>Tuesday 27</b>		
8:30-12:00	<b>Practical session:</b> <ul style="list-style-type: none"> <li>• Installation of the genome assembly pipeline.</li> <li>• Break according to the procedure times.</li> </ul>	<ul style="list-style-type: none"> <li>• Estela Cordero/Marta Giovanetti</li> </ul>
12:00-13:00	<b>LUNCH</b>	
13:00-16:00	<b>Practical session:</b> <ul style="list-style-type: none"> <li>• Genome assembly &amp; alignments.</li> <li>• Data quality control.</li> </ul>	<ul style="list-style-type: none"> <li>• Estela Cordero</li> </ul>
<b>Wednesday 28</b>		
08:30 –12:00	<b>Sesión teórico – práctico:</b> <ul style="list-style-type: none"> <li>• Introduction to phylogenetic.</li> <li>• Introduction to molecular dengue evolution</li> </ul>	<ul style="list-style-type: none"> <li>• Marta Giovanetti</li> </ul>
12:00-13:00	<b>LUNCH</b>	
13:00 –16:00	<b>Practical session:</b> Part 1: Practical exercises to generate Phylogeny.	<ul style="list-style-type: none"> <li>• Marta Giovanetti/Estela Cordero</li> </ul>
<b>Thursday 29</b>		
08:00 –12:00	<b>Practical session:</b>	<ul style="list-style-type: none"> <li>• Marta Giovanetti/ Estela Cordero</li> </ul>

	Part 2: Practical exercises to generate Phylogeny	
12:00 –13:00	<b>LUNCH</b>	
13:30-16:00	<b>Practical session:</b> Visualization of Phylogeny	<ul style="list-style-type: none"> <li>• Marta Giovanetti/Estela Cordero</li> </ul>
<b>Friday 30</b>		
8:00 – 11:00	<b>Theoretical session:</b> <ul style="list-style-type: none"> <li>• Presentación de resultados para autoridades de salud publica</li> <li>• Wrap up y fin de curso</li> </ul>	<ul style="list-style-type: none"> <li>• Todos los profesores</li> </ul>
11:00-12:00		
12:00-13:30	<b>LUNCH</b>	

**Coffee: 10:00-10:30am; 15:30-15:30**