

DAY 1

08:00	Registration
08:30	Welcome - RNPM Daniel Y. Bargieri, Anna Caroline Aguiar, Roberto M. Barros, Josué Lima Junior and Fabio T. M. Costa
08:45	Opening Lecture Dr. Víctor Nussenzweig Chairman: Aluisio Segurado (Dean of the University of Sao Paulo) Irene S. Soares (University of Sao Paulo): The Brazilian malaria vaccine against <i>P. vivax</i>
09:30	Table 1: Genomics Discussion: Marcelo Ferreira 20 min Sarah Auburn (Menzies School of Health Research): Genetic surveillance tools to inform on <i>P. vivax</i> treatment and transmission 20 min Joana Carneiro da Silva (University of Maryland School of Medicine): Past the Reference Genome: Multi-Strain Genome Assemblies to Advance Malaria Research 20 min Tais Nobrega (Fiocruz-MG): Mining, Mobility, and Malaria: Tracking Drug Resistance in the Brazilian tri-border region of Guiana Shield 15 min Discussion
10:45	Coffee Break
11:05	Table 2: Wildlife and Zoonotic malaria Discussion: Claudio Tadeu Daniel-Ribeiro and Georges Snounou 20 min Cristiana Brito (Fiocruz-MG): Molecular Basis of Zoonotic Transmission of <i>Plasmodium</i> from Non-Human Primates 20 min Richard Culleton (Ehime University): Zoonotic malaria in an unstable climate 20 min Erika Braga (Federal University of Minas Gerais): Human Footprint and Avian Malaria: Why does it matter? 20 min Nathalia de Albuquerque (University of Sao Paulo): <i>Plasmodium simium</i> : birth and evolution of a zoonotic malaria parasite 15 min Discussion
12:40	Lunch
14:00	Table 3: Malaria pathogenesis I Discussion: Gerhard Wunderlich and Silvia di Santi 20 min Maria Bernabeu Aznar (EMBL-Barcelona): Breaking and building barriers: 3D blood-brain barriers models for cerebral malaria research 20 min Leonardo Carvalho (Fiocruz-RJ): Role of leaked plasma on vascular constriction in experimental cerebral malaria 20 min Sabrina Epiphonio (University of Sao Paulo): How Does Malaria Lead to Acute Respiratory Distress Syndrome? Identifying mechanisms and biomarkers 15 min Discussion
15:15	Selected Abstracts I Discussion: Carla Claser and Paulo Totino 06 min Igor Mota Rodrigues de Moura (University of Sao Paulo): Genetic background modulates <i>falcipain</i> 2a driven resistance to peptidomimetic inhibitors in <i>Plasmodium falciparum</i> 06 min Maria Fernanda Alves do Nascimento (Fiocruz-MG): Expansion of Tfh and atypical B-Cell subsets associated with long-term immunity to the <i>Plasmodium vivax</i> DBP11 antigen 06 min Débora Santos Minkovicius (Federal University of Sao Paulo): Decoquininate as an antiplasmodial candidate against resistance to artemisinin-based combination therapies 06 min Adrielle Sacramento de Moraes (Fiocruz-BA): Antiplasmodial evaluation of new artemisinin derivatives against <i>Plasmodium falciparum</i> strains partially resistant to ARTs 05 min Discussion
15:45	Coffee Break + Poster Session A
17:00	Selected Abstracts II Discussion: Anielle Pina Costa and Gisely Melo 06 min Xiomara Alexandra Gaitán (University of Sao Paulo): TRAMP-CSS complex is essential for hepatocyte and erythrocyte infection by <i>Plasmodium berghei</i> zoitens 06 min Thafne Plastina Astro (Federal University of Sao Paulo): Mapping gametocyte development in in vitro-cultured <i>Plasmodium knowlesi</i> by single-cell RNA sequencing 06 min Jessica Rafaela dos Santos Alves (State University of Campinas): Comparative investigation of <i>Plasmodium vivax</i> in bone marrow and peripheral blood samples from individuals naturally exposed to malaria vivax in brazilian amazon 06 min Tais Barual Vieira (Federal University of Sao Paulo): Transcriptional Differences Between Salivary Gland And Saliva-Isolated <i>Plasmodium vivax</i> Sporozoites Revealed By Single-Cell RNA Sequencing 05 min Discussion
17:30	Table 4: Drug discovery Discussion: Martha Mutis and Elisa Vidal 20 min Brice Campo (Medicines for Malaria Venture): Staying Ahead of the Parasite: MMV's Pipeline and strategy to respond to the Global Malaria Challenge 20 min Purnima Bhanot (Rutgers University): PfPKG inhibitors for malaria PrEP 20 min Rafael Guido (University of Sao Paulo): Inspired by Nature: Discovery of New Antiplasmodial Agents as Lead Candidates for Malaria 20 min Celia Garcia (University of Sao Paulo): GPCR-Like Receptors in <i>Plasmodium falciparum</i> : New Perspectives for Malaria Biology and Drug Discovery 15 min Discussion
20:00	MMV Opening Reception with Celebration of the World Malaria Day

DAY 2

08:00	Registration
08:30	<p>Table 5: Malaria vectors and transmission I Discussion: Camila Fabbri and Simone Ladeia</p> <p>20 min Allan Kardec (IEPA-AP): Vector control in malaria transmission areas</p> <p>20 min José Bento Pereira Lima (Fiocruz-RJ): The contribution of vector control to the elimination of malaria.</p> <p>20 min Paulo Ribolla (State University of Sao Paulo): Population Genomic Structure of <i>Nyssorhynchus darlingi</i> in Two Amazon Basin Cities: Implications for Malaria transmission and Vector Control</p> <p>20 min Paulo Pimenta (Fiocruz-MG): Neotropical Malaria Vectors: Historical Perspectives and the New Frontiers of Experimental Studies</p> <p>15 min Discussion</p>
10:05	<p>Selected Abstracts III Discussion: Flavia Ribeiro-Gomes and Paulo Totino</p> <p>06 min Julia Ramos Sampaio (Federal University of Minas Gerais): A rapid immunochromatographic test for antibody detection as a new tool for monitoring asymptomatic <i>Plasmodium vivax</i> infection</p> <p>06 min Victoria Martins Roque Almeida (Fiocruz-RJ): Molecular surveillance for the elimination of <i>Plasmodium falciparum</i> in Brazil: evaluation of genes associated with resistance to antimalarial drugs in the state of Acre</p> <p>06 min Yanka Salazar (Fiocruz-MG): Molecular surveillance uncovers early resistance markers in <i>Plasmodium falciparum</i> at the Brazilian Amazon border</p> <p>06 min Winni Alves Ladeia (University of Sao Paulo): Mapping <i>Plasmodium vivax</i> dispersal in the main malaria hotspot of Brazil: an epidemiological and molecular surveillance study</p> <p>06 min Juliana Amorim Martins (Fiocruz-AM): Evaluation of the activity of natural substances as a tool in the control of <i>Anopheles</i> spp</p> <p>05 min Discussion</p>
10:40	Coffee Break
11:00	<p>Table 6: Diagnosis of malaria Discussion: Fatima Cruz and Giselle Rachid</p> <p>20 min Dhelio Pereira (Centro de Pesquisa em Medicina Tropical de Rondônia): The state of art of the use of CBC as a malaria diagnostic tool</p> <p>20 min Alexandre Tavares Costa (Fiocruz-PR): Reaching remote areas for malaria diagnosis: validating a qPCR-based test in the field</p> <p>20 min Nathália Siqueira (IEC/SVSA/MS): Point-of-Care (POC) testing for malaria diagnosis in the Amazon</p> <p>15 min Discussion</p>
12:15	<p>Lunch - ITpS Symposium - Technologies for early malaria detection Discussion: Anderson Brito Marcelo Bragatte (ITpS) José Deney Araújo (ITpS)</p>
13:30	<p>Table 7: Challenges in antimalarial therapy Discussion: Rafael Guido and Lilian Pratt-Riccio</p> <p>20 min Marcelo Brito (Fiocruz-AM): Safety of antimalarial treatment and implementation of pharmacovigilance strategies in the Amazonian context</p> <p>20 min Pedro Cravo (NOVA University of Lisbon): New insights into the mechanisms of artemisinin resistance in <i>Plasmodium</i></p> <p>20 min José Pedro Gil (NOVA University of Lisbon): The ongoing rise of <i>Plasmodium falciparum</i> lumefantrine resistance in Africa</p> <p>15 min Discussion</p>
14:45	<p>Selected Abstracts IV Discussion: Michelle Oliveira Silva</p> <p>06 min João Luiz Silva-Filho (University of Zurich): Spatially resolved cell atlas of the bone marrow and spleen reveal marked heterogeneity in tissue reorganization in fatal <i>P. vivax</i> infection</p> <p>06 min Victor Hugo Gonçalves (Fiocruz-MG): Immune Signatures Associated with Clinical Outcome in <i>Plasmodium vivax</i> Infection</p> <p>06 min Anne Cristine Gomes de Almeida (FMT-HVD/AM): Gut bacteria are associated with the inflammatory response and host metabolism in <i>vivax</i> malaria</p> <p>06 min Gisele Tatiane Soares da Veiga (Fiocruz-PR): Longitudinal Characterization of Plasma Extracellular Vesicles: From Acute Phase to Late Convalescence of Malaria</p> <p>06 min Cinthia Magalhães Rodolphi (Fiocruz-RJ): Adipocyte fatty acid binding protein (A-FABP) and malaria: evaluation of inflammation and lipid parameters during <i>Plasmodium</i> spp. infection in the Brazilian Amazon</p> <p>05 min Discussion</p>
15:20	Coffee Break + Poster Session B
16:35	<p>Table 8: Host-parasite interactions Discussion: Celia Garcia and Ricardo Machado</p> <p>20 min Anna Rosanas-Urgell (Institute of Tropical Medicine Antwerp): Visiting a cousin: <i>P. knowlesi</i> insights into <i>P. vivax</i> biology</p> <p>20 min Johan Ankarklev (Stockholm University): High Resolution Tools to Uncover Host-Parasite Interactions in the <i>Plasmodium</i> Infected Liver</p> <p>20 min David Serre (University of Maryland School of Medicine): Genomic analyses reveal high frequency of relapses and reduced drug susceptibilities in Cambodian <i>P. vivax</i></p> <p>20 min Rogerio Amino (Institut Pasteur-Paris): TRAMP-CSS complex is essential for hepatocyte and erythrocyte infection by <i>Plasmodium berghei</i> zites</p> <p>15 min Discussion</p>
18:10	<p>Award Presentations – Ruth Nussenzweig Medal Discussion: Claudio Tadeu Daniel-Ribeiro and Jamielle Dombrowski</p>

DAY 3

08:00	Registration
08:30	<p>Table 9: Malaria pathogenesis II Discussion: Letusa Albrecht and Leonardo Carvalho</p> <p>20 min Fabio Costa (University of Campinas): The hidden and "sick" game of <i>Plasmodium vivax</i></p> <p>20 min Matthias Marti (University of Zurich): Investigating the pathobiology of malaria across scales</p> <p>20 min Sylvie Garcia (Institut Pasteur-Paris): <i>Plasmodium vivax</i> and the bone marrow: A Reservoir of Complexity</p> <p>15 min Discussion</p>
09:45	<p>Table 10: Malaria vectors and transmission II Discussion: Maisa Araujo and Fabio Gomes</p> <p>20 min Silvia Portugal (Max Planck Institute): Dry season reservoir: How malaria parasites achieve silent persistence</p> <p>20 min Maria Anice Sallum (University of Sao Paulo): Microclimate and land cover modulate the human bite rate of <i>Nyssorhynchus darlingi</i> in the Brazilian Amazon</p> <p>20 min Joel Vega-Rodriguez (NIAID-NIH): Host Manipulation by Malaria Parasites: Insights from the <i>Anopheles gambiae</i> Proteome</p> <p>15 min Discussion</p>
11:00	Coffee Break
11:20	<p>Table 11: ITpS session - Febrile syndromes in the Amazon region Discussion: Vanderson Sampaio</p> <p>20 min Tania Chaves (Evandro Chagas Institute): Febrile syndromes in the Amazon region</p> <p>20 min Maria Paula Mourão (State University of Amazonas/FMT-HVD): Integrated surveillance of acute febrile illnesses in the Amazon</p> <p>20 min André Siqueira (Fiocruz-RJ): Eliminating malaria through syndromic fever surveillance</p> <p>15 min Discussion</p>
12:35	Lunch
14:00	<p>Table 12: Vaccines Discussion: Rodolfo Ferreira and Josué Lima Junior</p> <p>20 min Silvia B. Boscardin (University of Sao Paulo): Generation of human monoclonal antibodies against the circumsporozoite protein of <i>Plasmodium vivax</i></p> <p>20 min Patrick Duffy (NIAID-NIH): A platform for <i>P. vivax</i> vaccine discovery and testing</p> <p>20 min Luzia Carvalho (Fiocruz-MG): Over 15-year follow-up study of immune response to <i>Plasmodium vivax</i> Duffy-binding protein in the Amazon rainforest</p> <p>20 min Ricardo Gazzinelli (Fiocruz-MG): The Vivaxin and the Challenges of Vaccine Innovation in Brazil</p> <p>15 min Discussion</p>
15:35	<p>Table 13: MS session: Malaria control and surveillance Discussion: Claudio Tadeu Daniel-Ribeiro and Pedro Tauil</p> <p>25 min Alexander Vargas (Ministry of Health): Overview of malaria elimination in Brazil: challenges, perspectives, and innovations</p> <p>20 min Pablo Fontoura (Ministry of Health): The interface between scientific research and public service in malaria</p> <p>15 min Discussion</p>
16:35	Coffee Break
16:50	<p>Table 14: BMGF session: Innovation for malaria elimination PAHO BMGF</p>
18:00	HAPPY HOUR + Poster Session AB

Program RNMP

DAY 4

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08:00	Registration
09:00	<p>Table 15: Elimination in and changing climate Discussion: Cassio Peterka e Marcelo Urbano</p> <p>20 min Marcos Boulos (University of Sao Paulo): From malaria elimination to eradication: mistakes that must be overcome</p> <p>20 min Roberto Montoya (OPAS): Malaria Elimination Plan for the Americas 2026-2030</p> <p>20 min Sheila Rodvalho (OPAS): The Pan American Health Organization's elimination initiative for the Region of the Americas</p> <p>20 min Marcia Castro (Harvard) [online]: Malaria elimination: environmental and political challenges</p> <p>20 min Discussion</p>
10:40	Coffee Break
11:00	<p>Closing Conferences Chair: Pedro Tauil and Mauro Tada</p> <p>Claudio Tadeu Daniel-Ribeiro (Fiocruz-RJ): Neuroimmunomodulatory actions of cognitive-behavioral changes in non-severe human and experimental malaria</p> <p>Marcus Lacerda (WHO): [On-line] Moving from basic science to clinical trials and now to implementation science</p>
12:00	Awards Ceremony - Poster, Oral presentations and RN Medal Closure