Uniting Science Against *Plasmodium vivax*



ICPvR 2027

LIMA, PERU

May 19-21, 2027

InterContinental
Real Lima Miraflores
Lima, Peru

International Conference
on *Plasmodium vivax* Research
(ICPvR 2027)

Scientific Program

Day 1: Wednesday 19 May 2027

09:00 – 09:30 | **Inaugural session**
Dionicia Gamboa, Katherine Torres, Wilfredo Gonzáles & Roberto Montoya

Session 1: Novel tools for diagnosis
Chair: Jane Carlton

09:30 – 09:50 | *Keynote lecture*
Bridging Standard and Next-Generation Diagnostic Tools to Map the Unseen: Asymptomatic and Relapsing *Plasmodium vivax* Infections
Speaker: Dionicia Gamboa

09:50 – 10:05 | *Plenary session*
Serological markers can predict risk of *Plasmodium vivax* relapse
Speaker: Rhea Longley

10:05 – 10:20 | *Plenary session*
Extracellular vesicles as novel biomarkers of hidden and asymptomatic *P. vivax* infections
Speaker: Carmen Fernandez-Becerra

10:20 – 10:50 | **Short talks**

10:50 – 11:10 | **Coffee break**

Session 2: Molecular surveillance and genomic approaches
Chair: Marcelo Ferreira

11:10 – 11:30 | *Keynote lecture*
Molecular advances in spatial and temporal surveillance of *Plasmodium vivax*
Speaker: Sarah Auburn

11:30 11:45	*Plenary session* **Genomic surveillance reveals population structure and cross-border connectivity of *Plasmodium vivax* in Latin America** *Speaker: Luis Cabrera*
11:45 12:00	*Plenary session* **What Drives *Plasmodium vivax* Transmission in Africa? Insights from Ethiopia Across the Human Host, Parasite, Vector, and Genome** *Speaker: Fitsum Tadesse*
12:00 12:30	**Short talks**
12:30 14:00	**Lunch**

Session 3: *P. vivax* malaria treatments

Chair: Kamala Ley-Thriemer

14:00 14:20	*Keynote lecture* **Implementing new treatments: how long does it take?** *Speaker: Marcus Lacerda*
14:20 14:35	*Plenary session* **ACT Vs CHQ in combination with tafenoquine for the treatment of vivax malaria** *Speaker: Aung Pyae Phyo*
14:35 14:50	*Plenary session* **Priorities and progress towards safe and effective radical cure of *P. vivax*** *Speaker: Ric Price*
14:50 15:05	*Plenary session* **Focal mass drug Administration for vivax Malaria Elimination (FLAME): a pragmatic cluster randomized controlled trial in Peru: Preliminary Findings** *Speaker: Veronica Soto*

15:05 15:50	Coffee break
15:50 16:30	Short talks
19:30	Gala dinner

Day 2: Thursday 20 May 2027

Session 4: Relapse and hidden reservoirs for *P. vivax*
Chair: Jean Popovici

09:30 09:50	*Keynote lecture* Genomic insights into ***P. vivax*** relapse and hypnozoite reactivation *Speaker: David Serre*
09:50 10:05	*Plenary session* Exploring host factors associated with ***Plasmodium vivax*** susceptibility *Speaker: Fabio Costa*
10:05 10:20	*Plenary session* ***Plasmodium vivax*** and the bone narrow: A reservoir of complexity *Speaker: Sylvie Garcia*
10:20 10:50	Short talks
10:50 11:10	Coffee break

Session 5: *P.vivax*-human interactions and invasion
Chair: Anna Rosanas-Urgell

11:10 11:30	*Keynote lecture* MaRNAV-1 infection of ***P. vivax***: more than a mere passenger *Speaker: Jean Popovici*

11:30 11:45	*Plenary session* Finding the Target: ***Plasmodium vivax*** Cell Tropism ***In Vitro*** *Speaker: Benoit Malleret*
11:45 12:00	*Plenary session* Nanobodies to block ***P. vivax*** invasion *Speaker: Wai Hong Tham*
12:00 12:30	Short talks
12:30 14:00	Lunch

Session 6: Immune response and vaccine development

Chair: Lis Antonelli

14:00 14:20	*Keynote lecture* From Durable Antibody Responses to Memory B Cells in the Development of Long-Lived Immunity to ***Plasmodium vivax*** *Speaker: Patchanee Chootong*
14:20 14:35	*Plenary session* The Hidden Dialogue Between ***Plasmodium vivax*** and the Immune System *Speaker: Lis Antonelli*
14:35 14:50	*Plenary session* Beyond the parasite: Decoding host immunity in ***Plasmodium vivax*** through RNA-seq *Speaker: Katherine Torres*
14:50 15:35	Coffee break
15:35 15:50	*Plenary session* Systems immunology approaches for understanding susceptible and immunity to ***Plasmodium vivax*** malaria *Speaker: Diana Hansen*

15:50 16:05	*Plenary session* **Improving efficacy of a *Plasmodium vivax* circumsporozoite protein-based pre-erythrocytic vaccine** *Speaker: Francis Ntumngia*
16:05 16:20	*Plenary session* **T cell antigens for universal malaria vaccine** *Speaker: Caroline Junqueira*
16:20 16:50	**Short talks**

Day 3: Friday 21 May 2027

Session 7: Innovative model systems
Chair: Liliana Mancio

09:30 09:50	*Keynote lecture* **Expandig use of *P. knowlesi* as a multistage model for *P. vivax* biology and therapeutic development** *Speaker: Rob Moon*
09:50 10:05	*Plenary session* **Recent contributions of non-human primates to our understanding of malaria infection and immunity** *Speaker: Brandon Wilder*
10:05 10:20	*Plenary session* **Visiting a cousin: *P. knowlesi* transcriptomics to guide *P. vivax* research** *Speaker: Katlijn De Meulenaere*
10:20 10:50	**Short talks**
10:50 11:10	**Coffee break**

Session 8:
Entomology: from field surveys to molecular approaches
Chair: Maria Eugenia Grillet

11:10 11:30	*Keynote lecture* **Understanding mosquito diversity, ecology, and evolution for improved malaria vector control** *Speaker: Marta Moreno*
11:30 11:45	*Plenary session* **Baseline characterization of entomological drivers of malaria transmission in endemic Amazonian areas** *Speaker: Maisa Araujo*
11:45 12:00	*Plenary session* **Learning to eliminate dominant malaria vector species** *Speaker: Fredros Okumu*
12:00 12:30	**Short talks**
12:30 14:00	**Lunch**

Session 9: Ecology, climate change, and *P. vivax* transmission
Chair: Pablo Secato

14:00 14:20	*Keynote lecture* **Environmental change, Climate crisis, and *P. vivax* transmission in the Amazon** *Speaker: Marcia C. Castro*
14:20 14:35	*Plenary session* **Understanding the Resurgence and Expanding Landscape of *Plasmodium vivax* Transmission in Ethiopia: Climate, Ecology, and Connectivity** *Speaker: Wakweya Chali Gerba*
14:35 14:50	*Plenary session* **Warming World, Shifting Risk: Malaria Transmission in a Changing Landscape** *Speaker: Courtney Murdock*

14:50 15:20	**Short talks**
15:20 16:05	**Coffee break**

Session 10:
Roundtable: Control and elimination strategies
Moderators: Leanne Robinson & Roberto Montoya

16:05 17:05	*Speakers:* • *Cassio Peterka* • *Hong Van Nguyen* • *Manju Rahi* • *Maria Ome-Kaius* • *Gustavo Bretas* • *Javier Aramburú Guarda*
17:05 17:20	**Closing ceremony** *Katherine Torres and Dionicia Gamboa*


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