

DAY 1: THURSDAY JUNE 5, 2025

Johns Hopkins Bloomberg School of Public Health

All breaks are in Feinstone Hall - E2030, 2nd Floor All talks are in Sheldon Hall - W1214, 1st Floor

8:30 -	9:15Registration and light breakfast – Feinstone Hall (E2030)
9:20 -	9:30 Introduction to the Encounter - Sheldon Hall (W1214)
	Welcome Remarks – Prof. Jane Carlton (JHMRI Director)

Chalk Talks

	Marcelo Jacobs Lorena (JHU) Moving bacteria that curtail malaria transmission from the lab to the field
	Joao Pedra (UMD) Tick-Borne Diseases
	Tovi Lehmann (NIH) Harnessing Mosquitoes for Epidemic Surveillance and Research
10:30 - 11:00	Break – Feinstone Hall (E2030)

11:00 - 11:20 Carolina Barillas-Mury (NIH)

Mosquito Immunity

11:20 - 11:40 Christopher Potter (JHU)

Chemosensory Function of Mosquito Repellents

11:40 - 12:00 Fabiano Oliveira (NIH)

Measuring exposure to Aedes mosquito bites and risk of dengue through antibodies to mosquito salivary proteins.

GROUP PHOTO IN THE GALLERY OUTSIDE OF SHELDON HALL

12:15 - 1:30 Lunch – Feinstone Hall (E2030)

TOUR OF THE INSECTARY WILL BE OFFERED DURING LUNCH TIME (leaves from E2030 at ~1:00 PM)

Limited seating available in E2030 with additional seating available on the 1st and 2nd floors in and around the Daily Grind coffee shop.

- 1:30 1:50Joel Vega-Rodriguez (NIH)

 Host-Parasite-Vector Interactions During Malaria Transmission
- 1:50 2:10 Ali Afify (Drexel)

 Mosquito Olfaction
- 2:10 2:30 Johannes Doehl (NIH)

 Immune-Induced Itch Drives Rapid Tick Removal in Vertebrates
- 2:30 3:00 <u>Break Feinstone Hall (E2030)</u>

Short Talks

- 3:00 3:15 Upasana Singh (Vanderbilt)

 Characterization of Anopheline Ionotropic Receptors in Larval Life Stages
- 3:15 3:30 Colleen Kazokas (Drexel)

 From Segregation to Swarms: The Influence of Racial Residential

 Segregation on Mosquito Burden in Philadelphia Census Tracts
- 3:30 3:45 Diego Giraldo (JHU)

 Decoding lactic acid and CO₂ synergy in the Aedes aegypti nervous system
- 3:45 4:00 Emily Bencosme Cuevas (NIH)

 Identification of neutralizing ultra-long bovine antibodies against *Anopheles apyrase* and *Plasmodium* circumsporozoite protein (CSP) for prophylactic and transmission-blocking-based interventions

Stretch Break

- 4:00 4:15 Joanna Konopka (JHU)

 Mosquito biting dynamics at the human skin interface
- 4:15 4:30 Daniel Sonenshine (NIH)

 Spotted Fever rickettsioses in the United States, Mexico and South
 America
- 4:30 4:45 Xinmi Zhang (JHU)

 Linking human odor to mosquito digestive and gene-expression responses
- 4:45 5:00 Renuka Elizabeth Joseph (NIH)

 Evaluation of salivary proteins as potential targets for malaria transmissionblocking interventions in mosquitoes

Leave for Captain James Crab House (2127 Boston Street, Baltimore, MD 21231, next to water across road from the restaurant, Ph: 410-675-1819).

6:00 to 8:00pm ... Crab feast at Captain James Landing

DAY 2: FRIDAY JUNE 6, 2025

Johns Hopkins Bloomberg School of Public Health

All breaks are in Feinstone Hall - E2030, 2nd Floor All talks are in Sheldon Hall - W1214, 1st Floor

8:30 -	9:15Lig	<u>ght breakfast –</u>	Feinstone Hall	(E2030 - 1)	2 nd Floor)

Chalk Talks

9:20 - 9:50	Doug Norris (JHU) Vector and Pathogen Biology, Ecology and Genetics
9:50 - 10:10	.Yuemei Dong (JHU) Overview of projects in the Dimopoulos lab
10:10 - 10:30	.Conor McMeniman (JHU) Mosquito Chemosensory Biology
10:30 - 11:00	.Break-Feinstone Hall (E2030)

Short Talks

11:00 - 11:15	.Rohit Chebbi (NIH) Baculovirus: a Potential Tool for Enhanced Gene Silencing in Mosquitoes
11:15 - 11:30	.Joshua Raji (JHU) IR8a expression and functions in the malaria mosquitoes

- 11:30 11:45 Maithili Sawant (Drexel)

 Hexagonal Boron Nitride (h-BN) A novel repellent for protection against mosquito bites
- 11:45 12:00.......Pedro Amado Cecilio (NIH)

 Leishmania sand fly-transmission is disrupted by Delftia tsuruhatensis TC1

 bacteria
 - 12:15 1:30 <u>Lunch- Feinstone Hall (E2030)</u>
 - 1:30 1:45 Renee Ali (JHU) *Under the radar: Detection of the invasive Aedes vittatus in Jamaica*
 - 1:45 2:00......Lusajo Mwakibete (JHU)

 Deorphanizing An. gambiae Odorant Receptors implicated in detection of human scent

2:00 -	2:15Cole Meier (JHU) Terpenoids as spatial repellents against An. gambiae	
2:15 -	2:30Huiruo Zeng (Drexel) The effect of ethyl anthranilate on <i>Anopheles coluzzii</i> mosquito oviposition and egg hatching.	า
2:30 -	3:00 Break – Feinstone Hall (E2030)	
3:00 -	3:15 Elaine Chu (JHU) Can olfactory cues shape mosquito immunity?	
3:15 -	3:30Xiang Yin (JHU) STR Typing - Identifying Humans in Mosquito Blood Meals	
3:30 -	3:45Stefano Garcia Castillo (JHU) The role of Vasa protein for localization of transgenic cargo to Anopheles gambiae germ plasm	
3:45 -	4:00Gladys Gutierrez Bugallo (JHU) Inheritance of infection: Vertical transmission of arboviruses in Aedes aegypti	
Stretch	Break (5 min)	
4:00 -	4:15Owen Jaeck (JHU) Seasonal Bionomics and Infection Status of Mosquitoes in the Mid-Atlanti Region	c
4:15 -	4:30Hannah Sproch (JHU) The effect of Plasmodium falciparum parasite burden on vectorial capacit and mosquito behavior	У
4:30 -	4:45Luis Martinez (Vanderbilt) Next-generation insect spatial repellents target the Orco olfactory coreceptor	
4:45 -	4:50 Closing Remarks and Drawing of Gift Certificate	
5:00 -	7:00 <u>Casual Happy Hour at Ministry of Brewing</u> 1900 E Lombard St, Baltimore, MD, 21231	