



# Workshop: Unraveling Mosquito Mating Dynamics

23rd-25th June 2025 | Lecture room 6, Building B, Level -2

Department of Medicine and Surgery, University of Perugia, Perugia, Italy

## 23<sup>rd</sup> June 2025, Monday

12:15-13:00	Welcome & registration
13:00-14:00	Lunch
Session 1 - Afternoon - Chair: Roberta Spaccapelo	
14:00-14:30	<b>Prof. Joerg Albert</b> - <a href="#">University Oldenburg, Germany</a> <i>SYNERGY needed: Deciphering the logic of mosquito acoustic navigation, orientation, copulation, and sensory computation</i>
14:30-15:00	<b>Dr. Chantif Alexandros Alampounti</b> - <a href="#">University College London, United Kingdom</a> <i>Distortion Products: A link between the micro- and macro- mosquito ruleset</i>
15:00-15:30	<b>Dr. Marcos Georgiades</b> - <a href="#">University College London, United Kingdom</a> <i>Clockwork flagella: an introduction to mosquito SSOs</i>
15:30-16:00	<b>Prof. Florian Muijres</b> - <a href="#">Wageningen University, The Netherlands</a> <i>Comparative biofluid mechanics of fly and mosquito flight</i>
16:00-16:30	Coffee break
16:30-17:00	<b>Dr. Antoine Cribellier</b> - <a href="#">Wageningen University, The Netherlands</a> <i>Behavioral rules of swarming mosquitoes</i>
17:00-17:30	<b>Dr. Serge Poda</b> - <a href="#">Wageningen University, The Netherlands</a> <i>Field, semi-field and lab studies of malaria mosquito swarming in Burkina Faso</i>
17:30-18:00	<b>Dr. Stefania Melillo</b> - <a href="#">CNR, Rome, Italy</a> <i>Collective behavior in starling flocks and midges swarms</i>
18:00 onwards	Free time

## 24<sup>th</sup> June 2025, Tuesday

08:50-09:00	Opening
Session 2 - Morning - Chair: Stefania Melillo	
09:00-09:30	<b>Prof. Roberta Spaccapelo</b> - <a href="#">University of Perugia, Italy</a> <i>Swarming Dynamics in Lab Environments and Infrastructure Integration at UNIPG</i>
09:30-10:00	<b>Dr. Leonardo Parisi</b> - <a href="#">CNR, Rome, Italy</a> <i>3D tracking for dense and featureless systems</i>
10:00-10:30	<b>Dr. Matthew Peirce</b> - <a href="#">University of Perugia, Italy</a> <i>Unraveling Anopheles gambiae swarming using 3D video tracking</i>
10:30-11:00	Coffee break
11:00-11:30	<b>Dr. Marta Andres</b> - <a href="#">Spanish National Research Council, Spain</a> <i>Mosquito hearing: from basic neuroscience to disease control</i>
11:30-12:00	<b>Dr. Max Lombardi</b> - <a href="#">CNR, Rome, Italy</a> <i>Analysis of mating and swarming behavior in transgenic mosquito lines</i>
12:00-12:30	<b>Dr. Talmo Pereira</b> - <a href="#">Salk Institute for Biological Studies, San Diego, USA</a> <i>Quantifying and modeling biological motion using deep learning</i>
12:30-13:00	<b>Dr. Rainer Beutelmann</b> - <a href="#">University Oldenburg, Germany</a> <i>Where am I and where will I be heading? Ideas about acoustic tracking of, and directional hearing in, mosquitoes</i>
13:00-14:00	Lunch
Session 2 - Afternoon - Chair: Leonardo Parisi	
14:00-14:30	<b>Dr. Judi Bagi</b> - <a href="#">University College London, United Kingdom</a> <i>Illuminating the role of light in the mating behaviours of disease vectoring mosquitoes</i>
14:30-15:00	<b>Dr. Gloria Iacomelli</b> - <a href="#">University of Perugia, Italy</a> <i>Characterization of swarming behavior of invasive Aedes koreicus mosquitoes</i>
15:00-15:30	<b>Celine Alami</b> - <a href="#">University of Perugia, Italy</a> <i>Identification of targets to disrupt mating in Culex mosquitoes</i>
15:30-16:00	<b>Melania Ligato</b> - <a href="#">University of Perugia, Italy</a> <i>Investigating Desat1-Mediated Pheromone Signaling in Anopheles gambiae</i>
16:00-16:30	Coffee break
16:30-18:00	Networking
18:00~	Free time
20:00-21:30	Social dinner

## 25<sup>th</sup> June 2025, Wednesday

08:50-09:00	Opening
Session 3 - Morning - Chair: Roberta Spaccapelo	
09:00-10:30	<b>Prof. Joerg Albert</b> - <a href="#">University Oldenburg, Germany</a> <i>Filling some gaps: Antennal Hearing, Insect auditory ecology and the toolbox of their study</i>
10:30-11:00	Coffee break
11:00-12:30	Networking
12:30-13:00	Facility and infrastructure visit
13:00-14:00	Lunch
Session 3 - Afternoon - Chairs: Roberta Spaccapelo-Stefania Melillo	
14:00-16:30	Networking
16:30-17:00	Closing remarks

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