



Research Frontiers in Animal Behavior & Parasitism

A VIRTUAL SYMPOSIUM AT THE CENTER FOR THE ECOLOGY OF INFECTIOUS DISEASES

Day 1: Thursday May 20, 2021

Session I

10:00AM **Welcome & Introduction**

10:15AM *Why bother with animal tracking when studying host-parasite interactions?*
Orr Spiegel, Tel Aviv University

10:25AM *Altered feeding behaviors in disease vectors*
Lauren Cator, Imperial College London

10:35AM *Disease or drought: environmental fluctuations release zebra from anthrax transmission hotspots*
Yen-Hua Huang, University of Wisconsin-Madison

10:40AM *Foraging with a handicap*
Abdel Halloway, University of Illinois at Urbana-Champaign

10:45AM *A mechanistic, stigmergy model of territory formation in solitary animals: territorial behavior can dampen disease prevalence but increase persistence*
Lauren White, AAAS Science & Technology Policy Fellow

10:50AM **Q & A**

11:05AM *The genes of attraction*
Jamie Winternitz, Bielefeld University

11:15AM *Behavior-parasite feedbacks: how do they operate, when and why do they arise, and what are their consequences?*
Dana Hawley, Virginia Tech

11:25AM *Passive self-isolation in vampire bats, from individuals to networks*
Sebastian Stockmaier, University of Connecticut

11:30AM *Differential parasitism of native and invasive widow spider egg sacs*
Monica Mowery, Ben-Gurion University of the Negev

11:35AM *Beaten black and blue: assessing the role of melanization in territorial encounters of the eastern fence lizard*
Alison Ossip-Drahos, Marian University

11:40AM **Q & A**

Lunch **Networking Lunch – Hosted on Gather**

Session II

12:55PM **Session II Welcome**

1:00PM **Keynote Address, Parasites: they're not a bug, they're a feature**
Marlene Zuk, University of Minnesota & Member, National Academy of Sciences

1:30PM *Host manipulation by parasites: from individual to collective behavior*
Stephanie Godfrey, University of Otago

1:40PM *Behavioral defenses against parasitoids: genetic and neuronal mechanisms*
Todd Schlenke, University of Arizona

1:50PM *The behavior of infected hosts: behavioral tolerance and its implications for host competence*
James Adelman, University of Memphis

2:00PM **Q & A**

2:30PM **Wrap-Up & Day 1 Conclusion**



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Day 2: Friday May 21, 2021

Session I

- 10:00AM *Parasites in a social world: what we learned from primate behavior*
Charlotte Defolie, Georg-August-Universität Göttingen & German Primate Center
- 10:10AM *Avoidance behaviors in the face of parasitism: social parasites*
Marie Charpentier, The French National Centre for Scientific Research
- 10:20AM *Insights from applying evolutionary theory of resistance to avoidance*
Caroline Amoroso, University of Virginia
- 10:25AM *Modeling the ecological impact of female guppy preference on parasite prevalence*
Faith Rovenolt, University of Pittsburgh
- 10:30AM *Who is your neighbor?: eavesdropping parasites and the influence of nearby signalers*
Alex Trillo, Gettysburg College
- 10:35AM *Contact networks and pathogen transmission in wild animal populations*
Meggan Craft, University of Minnesota
- 10:45AM *Collective behavior and parasite transmission*
Nick Keiser, University of Florida
- 10:55AM **Q & A**

11:30AM Poster Session – Hosted on Gather

Session II

- 1:30PM *Infection avoidance behaviors*
Patricia Lopes, Chapman University
- 1:40PM *Seasonal human movement and the consequences for infectious disease transmission*
Amy Wesolowski, Johns Hopkins University
- 1:50PM *Behavior and parasitism in a wild baboon population*
Mercy Akinyi, Institute of Primate Research, Kenya
- 1:55PM *Age-related changes in social behaviour shape disease dynamics in a wild ungulate*
Greg Albery, Georgetown University
- 2:00PM *Social behavior determinants of the immune response to pathogens*
Jenny Tung, Duke University
- 2:10PM *Links between social co-association and similarity of leukocyte profiles in re-wilded laboratory mice*
Alexander Downie, Princeton University
- 2:15PM *Physiological costs of glucocorticoid responses in unpredictable environments*
Sarah Guindre-Parker, Kennesaw State University
- 2:20PM **Q & A + Discussion: Emerging Frontiers in Animal Behavior & Parasitism**
- 3:00PM **Wrap-Up & Symposium Conclusion**

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