



Yale SCHOOL OF MEDICINE

GENETICS DEPARTMENT SEMINAR SERIES

Evolution of Reproductive Capacity in the Lab and in the Wild

The number of offspring produced by an organism is a key element of fitness, and thus a critical parameter of evolutionary change. Reproductive output is controlled both genetically and environmentally, and can be highly variable even between closely related species. We have used multiple *Drosophila* species to elucidate the genetic, cellular, molecular and environmental mechanisms that regulate reproductive output, using both lab-reared and wild-caught populations. Our results show that a majority of major regulatory pathways control this key fitness trait, and that lab-discovered mechanisms may be the targets of evolutionary change to adaptively shape reproductive capacity in the wild.



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Host: Dr. Valerie Tornini, PhD

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YSM Department of Genetics

Tuesday, February 23, 2021

11:30am - 12:30pm

[Zoom Link](#)

pw: 7852649

The Genetics Calendar of Events can be viewed on-line at
<https://medicine.yale.edu/genetics/events/seminars.aspx>