

California State University, Fresno  
Department of Biology Colloquium Seminar Series  
presents...

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Associate Professor  
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## What happens when a species has more than one set of sex chromosomes?



Friday, April 29, 2022  
3:00 – 4:00 pm

Proper sex determination is essential to nearly all vertebrates, in order to produce compatible male and female individuals for the continuation of species. Despite sex determination serving such a fundamental role in development and reproduction, species have evolved an amazing array of mechanism to accomplish it. In some species, including many cichlid fishes of East Africa, multiple sex determination chromosomes interact to produce males and females, a scenario known as polygenic sex determination. Research in my group aims to catalog cichlid sex chromosomes and their interactions and understand how they impact other traits in individual organisms and the evolution of populations. Ultimately, we hope to understand why transitions between sex determination systems occur, and why polygenic sex determination systems appear to be evolutionarily stable in some species.

Zoom virtual meeting:

<https://fresnostate.zoom.us/j/84543877621?pwd=VmduNjFub1BEV09aSUIlSRmRiZF1Bdz09>

If you need a disability-related accommodation or wheelchair access, please contact Lindasue Garner at the Department of Biology at (559) 278-2001 or e-mail [lgarner@csufresno.edu](mailto:lgarner@csufresno.edu) at least one week prior to the event.