



## Yale SCHOOL OF MEDICINE GENETICS DEPARTMENT SEMINAR SERIES

# Mechanisms of regeneration and their evolution

Wound repair and regeneration are fundamental features of animal biology, yet little is known about how these pathways compare across animal lineages. The goals of my research program are: 1) to identify cellular and genetic mechanisms for whole-body regeneration, and 2) to create a framework for rigorous cross-species comparisons to understand the evolution of regeneration. In this talk, I will discuss how we utilize a diversity of approaches including functional genomics, single-cell RNA-sequencing, and transgenesis to uncover the mechanisms of regeneration in *Hofstenia*, a new research organism.



### **Dr. Mansi Srivastava, PhD**

**John L. Loeb Associate Professor of the Natural Sciences**

**Curator of Invertebrate Zoology**

Department of Organismic & Evolutionary Biology

Museum of Comparative Zoology

Harvard University

**Host: Chloe Emerson**

Graduate Student, Hammarlund Lab

YSM Department of Genetics

**Tuesday, February 9, 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>