

# Why Do Germline Mutation Rates Depend on Sex and Age?

Molly Przeworski,  
Columbia University  
Oct 14, 2022 3:30pm  
Wisconsin Idea Room  
Education Building  
1000 Bascom Mall  
*Reception to follow*

Germline mutation is the source of all heritable differences and therefore of fundamental importance. In mammals, it has long been appreciated that mutation rates are higher in fathers, particularly older fathers. The textbook view is that these patterns reflect replication errors that accrue during spermatogenesis. Dr. Przeworski will present multiple lines of evidence that call this view into question. She will argue instead that current data are best explained by a much larger role of DNA damage in the genesis of germline mutations than previously appreciated and draw implications for why mutation rates depend on sex and age and how they evolve over time.

Event is free and open to the public  
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