

Accumulation of mutations in asexual lineages: The Muller's Ratchet

Alexandre Colato (IFSC-USP)

Finite asexual populations can accumulate an increasing number of deleterious mutations through generations, and for this reason we can divide the populations in classes, where each class is compound of individuals that have the same number of mutations. The Stochastic loss of the entire class of individuals bearing on the fewest number of mutations (least-loaded class) is a process known as Muller's ratchet.

In this talk I am going to present some details related with the process of Muller's ratchet and new results to the operation of the ratchet for exponential growing lineages.