

MATEMATISKA INSTITUTIONEN
STOCKHOLMS UNIVERSITET
Avd. Matematik

SJÄLVSTÄNDIGT ARBETE I MATEMATIK

Onsdagen den 8 september kl. 10.00–11.00 presenterar Måns Magnusson sitt arbete “A brief introduction to molecular phylogeny” (15 högskolepoäng, grundnivå).

Handledare: Jens Lagergren

Plats: Sal 21, hus 5, Kräftriket

Abstract: The problem of recreating the evolutionary tree of a species from a set of gene trees has been studied for a long time and through the years a number of models have been presented.

In the year 2000 Jens Lagergren and M.T. Hallet published the article “*New Algorithms for the Duplication-Loss Model*” where they developed algorithms based on parsimony for this problem.

In this essay we will learn the basic concepts of phylogeny, both in terms of biology and mathematics, we will look closer at the article mentioned above and end by making a small study in the evolution of genes.

Alla intresserade är välkomna!