



Institute colloquium

The Institute Colloquium: Evolution of gene expression: from mutation to polymorphism

Patricia Wittkopp

University of Michigan

Host: Nick Barton

Genetic variation segregating within a species reflects the combined activities of mutation, selection, and genetic drift. In the absence of selection, polymorphisms are expected to be a random subset of new mutations; thus, comparing the effects of polymorphisms and new mutations provides a test for selection. When evidence of selection exists, such comparisons can identify properties of mutations that are most likely to persist in natural populations. We have been investigating how mutation and selection contribute to variation in cis- and trans-regulatory sequences controlling gene expression by empirically determining the effects of new mutations and polymorphisms in *Saccharomyces cerevisiae*. The latest findings from this work, including empirical measures of the relationship between changes in gene expression, expression noise, and fitness, will be presented and discussed.

Monday, January 30, 2017 04:00pm - 05:15pm

Raiffeisen Lecture Hall, Central Building



This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.

Please find a schedule of the ISTA Shuttle on our webpage:

<https://ista.ac.at/en/campus/how-to-get-here/> The ISTA Shuttle bus is marked ISTA Shuttle (#142) and has the Institute Logo printed on the side.