



WISCONSIN INSTITUTES FOR  
**DISCOVERY**

MORGRIDGE INSTITUTE FOR RESEARCH  
WISCONSIN INSTITUTE FOR DISCOVERY



## **2-Year NIH Postdoc in Background Selection & Selective Sweeps UW-Madison**

*Have you ever wondered how much background selection contributes to the observed correlation between DNA sequence diversity and recombination rates?*

*Would you like to test how many additional selective sweeps are needed to explain the patterns of DNA sequence diversity in fruit flies?*

*Do you like programming to explore population genetics questions?*

If you are looking for a postdoc to work on these questions, consider joining the *Evolutionary Systems Biology Group* <http://evolution.ws/people/loewe/>  
at the interface between the *Laboratory of Genetics* <http://genetics.wisc.edu/>  
and the newly opened *Wisconsin Institute of Discovery* <http://discovery.wisc.edu/wisconsin/>  
at the *University of Wisconsin-Madison*.

We invite applications for a 2-year NIH funded postdoc position to work on analyzing how well background selection and selective sweeps predict the observed diversity in next generation *Drosophila* genome sequences. This is a collaboration between

- Prof M. Noor (Duke, NC) <http://www.biology.duke.edu/noorlab>
- Prof R. Kliman (Cedar Crest, PA) <http://www2.cedarcrest.edu/academic/bio/rkliman>
- Prof L. Loewe (Madison, WI) <http://evolution.ws/people/loewe>

You should have:

- a background in population genetics
- an interest in linkage theories like background selection and selective sweeps
- programming experience in R or C++

If interested, please send a note of interest to Laurence Loewe, preferably before 7 Feb 2011, explaining why you want to work on this project and what skills qualify you for doing this. The start date is negotiable, but should be some time in 2011. Review of applications and notes of interest starts 7 Feb 2011 and the position will remain open until a successful candidate has been found.

For more information, please contact Laurence Loewe directly ( Loewe at wisc dot edu).

Related information, updates about this job and how to apply can be found at:

<http://evolution.ws/people/loewe/jobs>