

POSTDOCTORAL FELLOWSHIP

The Mandel Lab in the Department of Microbiology-Immunology at the Northwestern University Feinberg School of Medicine is recruiting a postdoctoral fellow. The lab focuses on determining the genetic basis by which bacteria colonize animal hosts. The major area of investigation in the laboratory entails genetic and genomic investigation of *Vibrio fischeri* during colonization of the Hawaiian bobtail squid.

The following projects are active in the laboratory: (1) Discerning how closely related strains of bacteria exhibit dramatically different abilities to colonize a given host; (2) Identification and characterization of novel bacterial colonization factors; (3) Characterization signal transduction in pathways required for colonization, including regulation of biofilm formation in an animal host; and (4) Development of software to improve forward genetic approaches and identify key connections from the model in other systems. A successful fellow will be encouraged to additionally initiate an independent research program. The laboratory and department have a strong record of mentorship, and the institution has an active program to support postdoctoral scholars.

Required qualifications:

1. Completion of a PhD in genetics, microbiology, genomics, bioinformatics, marine biology, or a related field prior to beginning the postdoctoral fellowship.
2. Strong background in molecular biology.

Desired qualifications:

1. Strong background in genetics.
2. Experience with programming (e.g., Python).

Interested applicants should send a PDF containing the following materials to Mark Mandel <m-mandel@northwestern.edu>:

1. Cover letter describing relevant experience and interest.
2. Curriculum vitae.
3. Contact information for three references.

Applications will be reviewed as they are received.

<http://labs.feinberg.northwestern.edu/mandel/>