

# CURRICULUM VITAE

Hao Huang

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## Education

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UC Berkeley, Class of 2012

- o Molecular and Cell Biology, Immunology Emphasis

Princeton University, Class of 2017

- o Department of Molecular Biology, Virology
- o Advisor: Prof. Lynn Enquist

## PUBLICATIONS

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Montalvo-Katz S, **Huang H**, Appel MD, Berg M, Shapira M. Association with soil bacteria enhances p38-dependent infection resistance in *C. elegans*. (2013) *Infect Immun*. 81(2):514-20.

## POSTERS

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June, 2011: Sirena Montalvo Katz, Hao Huang, and Michael Shapira. *C. elegans* commensals provide protection from *P. aeruginosa* infection. 18<sup>th</sup> International *C.elegans* meeting, Los Angeles, California.

August, 2011: Hao Huang, Sirena Montalvo Katz, and Michael Shapira. *C. elegans* commensals provide protection from *P. aeruginosa* infection. UC Berkeley Summer Undergraduate Research Symposium, Berkeley, California.

## RESEARCH EXPERIENCE

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**Enquist Lab**, Graduate Student, Princeton University, Princeton, NJ

June 2013-Present

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- o Studied the mechanisms of Pseudorabies Virus entry in both epithelial cells and Superior Cervical Ganglion neurons.
- o Studies the anterograde sorting and the egress mechanisms in Superior Cervical Ganglion axons.
- o Techniques employed:
  - Live cell Microscopy
  - Immunofluorescence
  - Confocal Microscopy

- Quantitative Westernblot
- In vitro neuronal culture

**Shapira Lab**, *Lab Assistant*, UC Berkeley, Berkeley, CA

*October 2010-May 2012*

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- o Isolated and identified, with sequencing and phylogenetic analysis, the intestinal bacteria of *C.elegans*.
- o Conducted experiments, including different survival assays and employment of electron microscopy to examine worm intestine, to study the possible mechanisms through which *P.mendocina* and *B. megaterium* increase resistance of *C.elegans* to pathogenic *P. aeruginosa*.

**Mills Lab**, *Lab Assistant*, UC Berkeley, Berkeley, CA

*February 2010-June 2011*

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- o Estimated the thermal tolerance of LBAM (Light Brown Apple Moth), *Epiphyas postvittana*, to predict the potential geographic range of LBAM in California.
- o Determined the development time, longevity, and lifetime fecundity of *Meteorus ictericus* (a parasitoid of LBAM).
- o Studied superparasitism behavior of *Meteorus ictericus* on LBAM.
- o Examined the effects of different host densities (LBAM) on *Meteorus ictericus* parasitism behavior.
- o Designed and implemented experiments to observe the bet-hedging egg-laying strategy of *Meteorus ictericus* in an attempt to explain the unusually low lifetime fecundity from previous data.

#### **ACADEMIC AWARDS**

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- o Mark. C. Collarino Scholarship (2010)
- o Biology Fellows Program Summer Fellowship (2011)
- o The Ronald E. Cape Fellowship Fund (2013)