

# Curriculum Vitae

[jsoh@stanford.edu](mailto:jsoh@stanford.edu)  
Tel: (650) 380-4692  
Fax: 1 (954) 333-6731

**Julia Oh**

Stanford University  
Stanford Genome Technology Center  
855 S. California Ave  
Palo Alto, CA 94305

---

## EDUCATION

### **Ph.D., Genetics, Stanford University, Stanford, CA (anticipated March 2010)**

Advisor: Ronald Davis

Thesis: A universal TagModule collection for parallel genetic analysis of microorganisms

### **B.S., Biology, Harvard University, Cambridge, MA (June 2003)**

Advisors: Duccio Cavalieri & Daniel Hartl

Thesis: Expression variability of natural isolates of *S. cerevisiae* under different growth conditions

## PUBLICATIONS

**Oh, J.**, Fung, E., Davis, R.W., St. Onge, R.P., Deutschbauer, A., Nislow, C. Parallel phenotypic analysis of *Candida albicans* mutants via tagged transposon mutagenesis. Manuscript in preparation.

**Oh, J.**, Deutschbauer, A., Nislow, C. Signature-tagged mutagenesis to identify strain improvement genes after competitive selection of barcoded genome libraries. *Methods in Molecular Biology*, 2010. Manuscript in preparation.

**Oh, J.**, Fung, E., Price, M., Dehal, P., Davis, R.W., Giaever, G., Nislow, C., Arkin, A., Deutschbauer, A. A universal TagModule collection for parallel genetic analysis of microorganisms. Submitted.

St. Onge, R.P., Ramamurthy, M. **Oh, J.**, Proctor, M. Fung, E., Davis, R.W., Nislow, C., Roth, F.P., Giaever, G. Systematic pathway analysis using high-resolution fitness profiling of combinatorial gene deletions. *Nature Genetics* 2007; 39(2):199-206.

Landry, C.R., **Oh, J.**, Hartl, D.L., Cavalieri, D. Genome-wide scan reveals that genetic variation for transcriptional plasticity in yeast is biased towards multi-copy and dispensable genes. *Gene* 2006 Feb; 366 (2): 343-31

Cavaliere D., **Oh, J.**, Queitsch C., Landry, C. Transcriptional analysis of coexisting genomes in interspecific hybrids of *Saccharomyces cerevisiae* and *Saccharomyces bayanus*. *Yeast* 2005 Aug; 22 (S1): S116-S118.

**Oh, J.**, Cavaliere, D. Everything you always wanted to know about wine yeasts but were afraid to ask. *Yeast* 2005 Aug; 22 (S1): S30-S36

Grzesik, W.J., Cheng, H., **Oh, J.S.**, Kuznetsov, S.A., Mankani, M.H., Uzawa, K., Robey, P.G., Yamauchi, M. Cementum-forming cells are phenotypically distinct from bone-forming cells. *J Bone Miner Res* 2000 Jan; 15 (1): 52-59

## **CONFERENCES & WORKSHOPS**

2009 Stanford Graduate School of Business Summer Institute for Entrepreneurship, June 22-July 17

2008 & 2009 Stanford School of Medicine Summer Program on Bioentrepreneurship

2009 10<sup>th</sup> International Conference on Systems Biology, August 30-September 4  
**Julia Oh**, E. Fung, G. Giaever, C. Nislow, R. Davis, A. Arkin, A. Deutschbauer  
Poster: Tagged transposon mutagenesis as a tool for building barcoded mutant collections

2008 Yeast Genetics and Molecular Biology Meeting, July 22-27  
**Julia Oh**, A. Deutschbauer, E. Fung, A. Arkin, G. Giaever, C. Nislow, R. Davis  
Poster: Parallel phenotypic analysis of *Candida albicans* mutants via tagged transposon mutagenesis

2008 2<sup>nd</sup> GSA Genetic Analysis: Model Organisms to Human Biology Meeting, January 5-8  
**Julia Oh**, A. Deutschbauer, E. Fung, A. Arkin, G. Giaever, C. Nislow, R. Davis  
Poster: Parallel phenotypic analysis of *Candida albicans* mutants via tagged transposon mutagenesis

2007 Stanford Graduate Summer Institute Experiences in Design Thinking, Sept 16-22

## **OTHER PROFESSIONAL AND RESEARCH EXPERIENCE**

**2009-present Halcyon Molecular**      Consultant

**2003 (with Dr. Andrew Murray)**      Project(s): Mating phenotypes and  
Harvard U., MA                              microarray analysis in artificial evolution of  
*S. cerevisiae* isolates

<b>2002-2003 (Dr. Duccio Cavaliere)</b> Bauer Center for Genomics, Harvard U., MA	Expression variability of natural isolates of <i>S. cerevisiae</i> under different growth conditions
<b>2001 (Dr. Michael Resnick)</b> Laboratory of Molecular Genetics, National Institute of Environmental Health Sciences (NIEHS), NC	Analysis of nuclear DNA repair pathways involved in frataxin-induced oxidative damage
<b>2000 (Dr. Yuji Mishina)</b> Laboratory of Developmental Biology, NIEHS, NC	Establishment of an TGF- $\beta$ superfamily member receptor (Alk3) type I null cell line using a Tet-On inducible system
<b>1999-2000 (Dr. Elizabeth Robertson)</b> Department of Molecular and Cellular Biology, Harvard U., MA	Cell lineage of the hippocampus in early mouse development
<b>1999 (Dr. Yuji Mishina)</b> Laboratory of Developmental Biology, NIEHS, NC	Analysis of embryonic stem cell differentiation with an altered expression of a TGF- $\beta$ superfamily member, <i>Nrg-1</i> , and a BMP/Activin receptor, <i>Alk2</i>
<b>1998-1999 (Dr. Wojciech Grzesik)</b> Dental Research Center, UNC-CH, NC	The influence of estrogen on <i>de novo</i> bone formation
<b>1997 (Dr. Steven Zeisel)</b> Department of Nutrition, UNC-CH, NC	Effect of choline deficiency on cell proliferation

## OTHER ACTIVITIES

2008 & 2009 Carolina Meadows Retirement Community volunteer concert organization & hosting  
2008-2009 Stanford at the Tech volunteer  
Ran demonstrations of genetic experiments & classroom teaching  
2008-present Harvard University College Admissions interviewer  
2007 Carol Woods Retirement Community volunteer concert organization & hosting  
2005-2006 Stanford Escondido Village Community Associate  
Organized Escondido Village social events  
Harvard College Scholarship  
Robert C. Byrd Scholarship  
Nicole Reinhart Collegiate Cycling Scholarship

## REFERENCES

**Ronald W. Davis, Ph.D.** [dbowe@stanford.edu](mailto:dbowe@stanford.edu)

Professor, Dept. of Biochemistry  
Stanford Genome Technology Center  
855 California Ave  
Palo Alto, CA 94301  
(650) 812-2021

**Corey Nislow, Ph.D.** [corey.nislow@utoronto.ca](mailto:corey.nislow@utoronto.ca)

Assistant Professor, Dept. of Molecular Genetics, University of Toronto  
Banting and Best Department of Medical Research  
160 College St, Rm 1210  
Toronto ON, M5S 3E1  
(416) 946-8351

**Adam Deutschbauer, Ph.D.** [amdeutschbauer@lbl.gov](mailto:amdeutschbauer@lbl.gov)

Lawrence Berkeley National Lab  
Physical Biosciences Division, 1 Cyclotron Road, MS 977-152  
Berkeley, California 94720  
(510) 495-2116

**Guri Giaever, Ph.D.** [guri.giaever@utoronto.ca](mailto:guri.giaever@utoronto.ca)

Assistant Professor, Faculty of Pharmacy, University of Toronto  
160 College St., Rm 1208  
Toronto, Ontario M5S3E1  
(416) 978-7182