Brian M. Zid

Assistant Professor Biochemistry – UC San Diego
UC San Diego
Urey Hall
La Jolla, CA
617-877-6750/ email: zid@ucsd.edu

Education:

California Institute of Technology, Pasadena CA, Ph.D., 2008, Biology
Truman State University, Kirksville MO, B.S., 2000, Chemistry

Publications:

Subramaniam, AR, **Zid BM**, O'Shea EK (2014) An integrated approach reveals regulatory controls on bacterial translation elongation. *Cell,* 159(5):1200–1211. PMID: 25416955

Zid BM, O'Shea EK (2014) Promoter sequences determine cytoplasmic localization and translation of mRNAs during starvation in yeast. *Nature*, 514(7520):117-121. PMID: 25119046

Zid BM, Rogers A, Katewa S, Vargas MA, Kolipinski M, Lu TA, Benzer S, Kapahi P (2009) 4E-BP extends lifespan upon dietary restriction by enhancing mitochondrial activity in *Drosophila. Cell*, 139(1):149-160. PMID: 19804760

Ja WW, Carvalho GB, **Zid BM**, Mak EM, Brummel T, Benzer S (2009) Water- and nutrient-dependent effects of dietary restriction on Drosophila lifespan. *PNAS*, 106(44):18633-7. PMID: 19841272

Kapahi P, **Zid B** (2004) TOR pathway: linking nutrient sensing to life span. *Sci Aging Knowledge Environ*. (36):PE34. PMID: 15356349

Kapahi P, **Zid BM**, Harper T, Koslover D, Sapin V, Benzer S (2004) Regulation of lifespan in *Drosophila* by modulation of genes in the TOR signaling pathway. *Current Biology*, 14(10):885-90. PMID: 15186745

Research Experience:

Assistant Professor of Biochemistry – UC San Diego July 2015 – present
My lab studies the mechanism by which mRNAs are differentially localized to mRNP granules during stressful conditions, and the physiological consequences this has on the cell.

Postdoctoral Fellow in the lab of Erin O'Shea, Harvard University, Nov 2008 – June 2015
I have been investigating the mechanisms of translational control upon nutrient starvation in *S. cerevisiae* using next-generation sequencing, microscopy and biochemical methods. This research found a novel connection between transcription and translation whereby promoter sequences were able to determine mRNA localization within the cytoplasm and the mRNA translation rate.

Graduate Student in the lab of Seymour Benzer, California Institute of Technology, Jan 2001–Oct 2008

I used *Drosophila* to investigate the molecular mechanism of lifespan extension due to dietary restriction using genetics, genomics, bioinformatics and biochemical methods. This research found that the TOR pathway and its downstream components are key effectors of dietary restriction.

Awards and Honors:

Poster Prize Winner, Integrative RNA Biology Conference. 2014

American Cancer Society, Funding a Cure Postdoctoral Fellow. 2011–2013

Derek C. Bok Award, Certificate of Distinction in Teaching. 2011, 2012, 2013

Glenn/AFAR Scholarship for Research in the Biology of Aging. 2002

Teaching Experience:

Harvard University, Teaching Fellow**,** *Understanding Aging: Degeneration, Regeneration, and the Scientific Search for the Fountain of Youth.* 2011, 2012, 2013

California Institute of Technology, Instructor, *Biology of Aging* Seminar Class. 2007

California Institute of Technology, Teaching Assistant, *Genetics Laboratory.* 2002, 2003