

# Myan Do

Lawrence Berkeley National Laboratory  
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## EDUCATION

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**University of California, Berkeley**, Berkeley, CA  
Bachelor of Arts in Molecular and Cell Biology

05/2011

## RESEARCH EXPERIENCE

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**Carolyn Larabell Lab** (National Center for X-ray Tomography)

**UCSF Department of Anatomy & Lawrence Berkeley National Laboratory**

*Lab assistant*

10/2012 – Current

- Use soft x-ray tomography and data processing software (eTomo, MATLAB Amira) to characterize and quantify cellular ultrastructure in tomographic reconstructions
- Currently investigating variation in nuclear and mitochondrial structures and distribution among:
  - Normal human lymphoblastoids (GM12878)
  - Primary mouse B cells
  - Transformed mouse lymphoblastoid line
  - Tumorous mouse B cell line (L1210)

*Research intern*

01/2012 – 05/2012

- Tested and refined protocols for extracting single cells from young zebrafish embryos

**Mina J. Bissell Lab**

07/2010 – 12/2011

**Lawrence Berkeley National Laboratory**

*Undergraduate research assistant*

- Created *in vitro* co-culture models of MCF-10A (human breast epithelium) and lipid-secreting 3T3-L1 (mouse adipocytes), in varying Matrigel bases, for MCF-10A morphology studies
- Culture, infection, gene knock-out, fixing, immunostaining and imaging of MCF-10A, 3T3-L1, HMT-3522 S1 and HMT-3522 T4-2 lines

**Gary Ren Lab**

05/2008 – 08/2008

**Lawrence Berkeley National Laboratory (formerly of UCSF)**

*Undergraduate research intern*

- Characterized new Apolipoprotein A1 conformation through cryo-electron microscopy and 3D reconstructions: 96-Å ring with appendage-like structures spanning the ring diameter

## PUBLICATIONS

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1. Smith EA, McDermott G, **Do M**, Leung K, Panning B, Le Gros MA, Larabell CA. Quantitatively imaging chromosomes using correlated cryo-fluorescence and soft x-ray tomographies. *Biophysical Journal*. Forthcoming 2014.

2. Le Gros MA, McDermott G, Cinquin BP, Smith EA, **Do M**, Chao WL, Naulleau PP, Larabell CA. Biological soft X-ray tomography on beamline 2.1 at the Advanced Light Source. *Journal of Synchrotron Radiation*. Forthcoming 2014.
3. Smith EA, Cinquin BP, **Do M**, McDermott G, Le Gros MA, Larabell CA. Correlative cryogenic tomography of cells using light and soft x-rays. *Ultramicroscopy*. 2014 Aug;143:33-40.
4. Cinquin BP, **Do M**, McDermott G, Walters AD, Myllys M, Smith EA, Cohen-Fix O, Le Gros MA, Larabell CA. Putting molecules in their place. *J Cell Biochem*. 2014 Feb;115(2):209-16.

## PRESENTATIONS

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### *U.S. Department of Energy, Science Undergraduate Laboratory Internships Poster Session Lawrence Berkeley National Laboratory, Berkeley, CA*

1. Do M, McDermott G, Larabell CA. **05/2012**  
Variation in Nuclear Morphology during *Danio rerio* Development.
2. Do M, Tanner K. **12/2011**  
Effects of 3T3 Lipid Secretion on MCF-10A Morphology.

## VOLUNTEER EXPERIENCE

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- Washington Hospital Healthcare System**, Fremont, CA **03/2013 – 05/2014**
- Provided support for emergency room patients and staff
- UCSF Medical Center**, San Francisco, CA **04/2009 – 01/2011**
- Assisted nurses with patient needs and administrative work
- Oakland Asian Students Educational Services**, Oakland, CA **09/2009 – 12/2009**
- Tutored elementary students in an after-school academic support program