

# Elijah J. Spina

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## Education

### Ph.D. Molecular, Cellular & Developmental Biology

University of California, Santa Barbara (UCSB).....2017

### B.S. Biological Sciences

State University of New York at Oneonta (SUNY Oneonta).....2009

## Technical Skills

Molecular Cloning  
Cell & Tissue Culture  
Genomics  
Statistics & Programming  
Fluorescence Microscopy

CRISPR/CAS9  
Cell sorting (FACS)  
DNA Sequencing & Analysis  
Complex Networks  
Quantitative Image Analysis

qPCR & Gel Electrophoresis  
Plant Micropropagation  
Bacterial Propagation  
R & SPSS  
Python & Matlab

## Work Experience

**UCSB, Santa Barbara, California.....2011 - 2017**

*Doctoral Researcher & Instructor*

- Published high impact cross-disciplinary research in a top-tier peer reviewed scientific journal
- Primary instructor for an undergraduate lecture course (Intro. Biology MCDB 1A – Summer 2015)
  - Achieved proficiency in presenting interactive lectures & assessments to large groups
- Teaching assistant for capstone course in Cell & Developmental Biology emphasis (Fall & Winter 2013-2017)
  - Creatively led discussion sections, produced short lectures & small group exercises
  - Designed laboratory modules, instructed lab sections and designed assessments

**Columbia University Medical Center, New York, NY.....2010 - 2011**

*Laboratory Technician*

- Performed essential wet lab research for clinical trials pertaining to endocrinology, bone homeostasis and related pathogenesis (including osteoporosis, diabetes and hyperparathyroidism).

**New Hope Fertility Center, New York, NY.....2009 - 2010**

*Consultant*

- Successfully revised internal system of reporting *in-vitro* fertilization (IVF) cycle outcomes, pregnancy and live birth rates including establishing a standard operating procedure for reporting IVF cycle outcomes to the CDC.

## Leadership Development

- UCSB Graduate Biology Mentorship Association, President & Event Coordinator (05/2014 - 06/2017)
- The Leadership Challenge® (UCSB Fall 2016)
- Mentor for UCSB CAMP undergraduate diversity research scholarship (04/2013 - 12/2013)

## Publications, Awards & Presentations

- **E. Spina**, E.B. Guzman, H. Zhou, K.S. Kosik, W.C. Smith. " A microRNA-mRNA Expression Network during Oral Siphon Regeneration in *Ciona*" *Development* (2017): *in review*
- **E. Spina**, T.T.H. Nguyen, E.B. Guzman, H. Zhou, K.S. Kosik, W.C. Smith, "microRNA Regulation of Oral Siphon

Regeneration In *Ciona intestinalis*" (2014 EMBO Conference on the Molecular and Cellular Basis of Regeneration, Barcelona)

- **NIGMS**; UC Irvine, CCBS, NSCSB Graduate Student Fellowship (2014)
- **UCSB**, MCDB/Amgen Teaching-Research Fellowship (09/2011 – 07/2012)
- **SUNY Oneonta** Magna cum laude with Honors in Biology (2009)
- Bennett, Jacqueline S., Kaitlyn L. Charles, Matthew R. Miner, Caitlin F. Heuberger, **Elijah J. Spina**, Michael F. Bartels, and Taylor Foreman. "Ethyl lactate as a tunable solvent for the synthesis of aryl aldimines." *Green Chemistry* 11 (2009): 166-68.
- **SUNY Oneonta** Student Grant for Research and Creative Activity (2008)

*\*References available upon request.*