Daniel Lewis

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EDUCATION

University of California, Santa Barbara **Santa Barbara, CA**
B.S. Pharmacology *June 2011*
Relevant coursework: Biochemistry A, B, and C, Virology, Pharmacology A, B, and C, Pharmacology Lab I & II, Developmental Neurobiology
Cumulative GPA: 3.51

PROFESSIONAL EXPERIENCE

UC Davis **Davis, CA**
Rotating Graduate Student *September 2013 to present*
Brady Lab- Genotyped and did qPCR on transgenic lines for yeast-one-hybrid network validation
Tagkopoulos Lab- Contributed to biological rectifier circuit construction
Kliebenstein Lab- Studied impact of glucosinolate-containing media on plant growth and glucosinolate content
Tan Lab- Creating biological circuits for measurement and implementation in artificial cell systems

Prof. De Tomaso Lab, *UC Santa Barbara* **Santa Barbara, CA**
Lab Assistant I *July 2012 to September 2013*
Maintain colonies of *Botryllus schlosseri* by cleaning and transferring specimens on glass slides. Use mammalian cell culture, RNAi, and qPCR investigate the role of the FuHC protein in allorecognition in *Botyrllus.*

Pharmacology Lab, *UC Santa Barbara* **Santa Barbara, CA**
Undergraduate T.A. *January 2012 to March 2012*
Grade pre-labs and quizzes, answer student questions on protocol and data organization.

Prof. De Tomaso Lab, *UC Santa Barbara* **Santa Barbara, CA**
Research Associate *June 2010 to July 2012*
Maintain colonies of *Botryllus schlosseri* by cleaning and transferring specimens on glass slides. Use in-vivo drug incubations, histology, and qPCR to better understand the role of the WNT signaling in asexual budding and embryonic development.

SKILLS

De Tomaso Lab:
Learned how to

- Do *in vivo* assays of drugs that interact with the Wnt signaling pathway
- Produce siRNA *in vitro*
- Extract RNA and use it to prepare cDNA
- Do qPCR and RT PCR on cDNA preparations
- Transfect and culture mammalian cells
- Do restriction enzyme cloning, topoisomerase cloning, and Gateway cloning
- Perform microinjections

PUBLICATIONS

Nydam M.L., Netuschil N., Sanders E., Langenbacher A., Lewis D.D., Marimuthu A., Gracy A.Y., De Tomaso A. W. (2013) The candidate histocompatibility locus of a Basal chordate encodes two highly polymorphic proteins. PLoS One Jun 24; 8(6):e65980

References Available