DR. MATTHEW D. DEAN

Molecular and Computational Biology University of Southern California 304A Ray R. Irani Building 1050 Childs Way Los Angeles, CA 90089 Tel: (213) 740-5513

E-mail: maithew.dean@usc.edu

Lab website: https://dornsife.usc.edu/dean-lab/

PERSONAL STATEMENT

Science rocks.

PROFESSIONAL EXPERIENCE

2015-present **Associate professor.** Molecular and Computational Biology, University of Southern California

Research topic: Evolutionary and reproductive genetics

2009-2015 **Assistant professor.** Molecular and Computational Biology, University of Southern

California

Research topic: Evolutionary and reproductive genetics

2004-2009 **Postdoctoral fellow.** Ecology and Evolutionary Biology, University of Arizona

Mentor: Dr. Michael W. Nachman (ib.berkeley.edu/labs/nachman) Research topic: coevolution of male and female reproductive proteins

2003-2004 Lecturer. Roosevelt University, Chicago IL

EDUCATION

2003 **Ph.D.** in Biological Sciences, University of Iowa at Iowa City

Advisor: Dr. J. William O. Ballard (http://billb.babs.unsw.edu.au/)

Research topic: coevolution of Wolbachia and their hosts

1996 **B.S.** in Entomology, University of Wisconsin at Madison

Advisors: Dr. Daniel K. Young and Dr. Kenneth F. Raffa

Research topic: coevolution of bark beetles and their predators

PUBLICATIONS (REVERSE CHRONOLOGICAL)

Mullis, M. N., C. Ghione, M. Lough-Stevens, I. Goldstein, T. Matsui, S. F. Levy, **M. D. Dean**, I. M. Ehrenreich. 2022. Complex genetics cause and constrain fungal persistence in different parts of the mammalian body. *Genetics* 222: iyac138.

(Note: Caleb Ghione and Michael Lough-Stevens were graduate students in the Dean Lab).

Keeble, S., R. C. Firman, B. A. J. Sarver, N. L. Clark, L. W. Simmons, and **M. D. Dean**. 2021. Evolutionary, proteomic, and experimental investigations suggest the extracellular matrix of cumulus cells mediates fertilization outcomes. *Biology of Reproduction* ioab082. (Note: Sara Keeble was a graduate student in the Dean Lab).

Lough-Stevens, M. J., C. Ghione, M. Urness, A. Hobbs, C. Sweeney, **M. D. Dean**. 2021. Malederived copulatory plugs enhance implantation success in *Mus musculus*. *Biology of Reproduction* 104: 684-694.

- Adams, N. E., **M. D. Dean**, and G. B. Pauly. 2018. Morphological divergence among populations of *Xantusia riversiana*, a Night Lizard endemic to the Channel Islands of California. *Copeia* 106: 550-562.
 - (Note: this paper was a product of BISC499, a course where students participated in research at the Natural History Museum of Los Angeles)
- Larson, E. D. Vanderpool, B. Sarver, C. Callahan, S. Keeble, L. Provencio, M. Kessler, V. Stewart, E. Nordquist, M. D. Dean, J. Good. 2018. The evolution of polymorphic hybrid incompatibilities in house mice. *Genetics* 209: 845-859. (Note: Sara Keeble and Lorraine Provencio were graduate students, and Michael Kessler an undergraduate, in the Dean Lab).
- Qu, J., E. Hodges, A. Molaro, P. Gagneux, **M. D. Dean**, G. J. Hannon, A. D. Smith. 2018. Evolutionary expansion of DNA hypomethylation in the mammalian germline genome. *Genome Research* 28: 145-158.
- Lough-Stevens, M., N. G. Schultz, **M. D. Dean**. 2018. The baubellum is more developmentally and evolutionarily labile than the baculum. *Ecology and Evolution* 8:1073–1083. (Note: Michael Lough-Stevens and Nick Schultz were graduate students in the Dean Lab during this project)
- Chang, P. L., E. Kopania, S. Keeble, B. Sarver, E. Larson, A. Orth, K. Belkhir, P. Boursot, F. Bonhomme, J. M. Good, **M. D. Dean**. 2017. Whole exome sequencing of wild-derived inbred strains of mice improves power to link phenotype and genotype. *Mammalian Genome* 28: 416–425.
 - (Note: This study was featured on the cover of Mammalian Genome)
 - (Note: Sara Keeble and Emily Kopania were graduate students in the Dean Lab during this project)
- Decato, B., J. Tello, J. M. Good, A. Sferruzzi-Perri, A. D. Smith, and **M. D. Dean**. 2017. DNA methylation divergence and tissue specialization in the developing mouse placenta. *Molecular Biology and Evolution* 34: 1702-1712.
- Sarver, B., S. Keeble, T. Cosart, P. Tucker, **M. D. Dean**, and J. M. Good. 2017. Phylogenomic insights into genome evolution and speciation in mice. *Genome Biology and Evolution* 9: 726-739.
 - (Note: Sara Keeble was a graduate student in the Dean Lab during this project)
- Schultz, N. G., E. Otárola-Castillo, and **M. D. Dean**. 2017. Dissection, microCT scanning, and morphometric analyses of the baculum. *Journal of Visualized Experiments* 55342. (Note: Nick Schultz was a graduate student in the Dean Lab during this project)
- Larson, E. L., S. Keeble, D. Vanderpool, **M. D. Dean**, J. M. Good. 2016. The composite regulatory basis of the large X-effect in mouse speciation. *Molecular Biology and Evolution* 34: 282-295. (Note: Sara Keeble was a graduate student in the Dean Lab during this project)

Schneider, M. R., R. Mangels, and **M. D. Dean**. 2016. The molecular basis and reproductive function(s) of copulatory plugs. *Molecular Reproduction and Development* 83: 755-767. (Note: Rachel Mangels was a graduate student in the Dean Lab)

- Mangels, R., K. Tsung, K. Kwan, and **M. D. Dean**. 2016. Copulatory plugs inhibit the reproductive success of rival males. *Journal of Evolutionary Biology* 29: 2289-2296 (Note: Rachel Mangels and Kelly Kwan were graduate students, and Kathleen Tsung a lab technician, in the Dean Lab during this project)
- Larson, E. L., D. Vanderpool, S. Keeble, M. Zhou, B. A. J. Sarver, A. D. Smith, **M. D. Dean**, and J. M. Good. 2016. Contrasting levels of molecular evolution on the mouse X chromosome. *Genetics* 203: 1841-1857.

 (Note: Sara Keeble was a graduate student in the Dean Lab during this project)
- Crisci, J. L., **M. D. Dean**, P. Ralph. 2016. Adaptation in isolated populations: when does it happen and when can we detect it? *Molecular Ecology* 25: 3901-3911. (Note: Jessica Crisci was a postdoc with the Dean Lab and Ralph Lab)
- Schultz, N. G, M. Lough-Stevens, E. Abreu, T. Orr, **M. D. Dean**. 2016. The baculum was gained and lost multiple times during mammalian evolution. *Integrative and Comparative Biology* icw034. (Note: Nick Schultz and Michael Lough-Stevens are graduate students in the Dean Lab, Eric Abreu was a high school volunteer [now full ride at Harvard])
- Schultz, N. G., J. Ingels, A. Hillhouse, K. Wardwell, P. L. Chang, J. M. Cheverud, C. Lutz, L. Lu, R. W. Williams, **M. D. Dean**. 2016. The genetic basis of baculum size and shape variation in mice. *G3: Genes* | *Genomes* | *Genetics*. 6:1141-1151. (Note: Nick Schultz is a graduate student in the Dean Lab)
- Young, B. W. and **M. D. Dean**. 2015. To be, or not to be, related; how female guppies bias sperm usage. *Molecular Ecology* 24: 4039-4041 (Note: Brent Young was our lab manager)
- Dines, J. P., S. L. Mesnick, K. Ralls, L. May Collado, I. Agnarsson, and M. D. Dean. 2015. A tradeoff between precopulatory and postcopulatory trait investment in male cetaceans. *Evolution* 69: 1560-1572.
 (Note: Jim Dines was a graduate student in the Dean Lab)
- Mangels, R., B. Young, S. Keeble, R. Ardekani, C. Meslin, Z. Ferreira, N. L. Clark, J. M. Good, and **M. D. Dean**. 2015. Genetic and phenotypic influences on copulatory plug survival in mice. *Heredity* 115: 496–502
 - (Note: Rachel Mangels and Sara Keeble are graduate students in the lab; Brent Young was our lab manager. This study was featured on the Heredity podcast.)
- Dines, J. P., E. Otárola-Castillo, P. Ralph, J. Alas, T. Daley, A. Smith, **M. D. Dean**. 2014. Cetacean pelvic bones are targets of sexual selection, not vestigial structures. *Evolution* 68: 3296-3306. (Note: Jim Dines was a graduate student in the Dean Lab; Jesse Alas was a local high school student from West Adams working in the lab. This study was featured in the popular press: Science, National Geographic, Washington Post, Smithsonian Magazine, Discovery Magazine, Time, and more)

Kessler, M. and **M. D. Dean**. 2014. Effective population size does not predict codon usage bias in mammals. *Ecology and Evolution* 4: 3887-3900.

(Note: Michael Kessler was a USC undergraduate in the Dean Lab during this project)

Young, B. Y., D. C. Conti, and **M. D. Dean**. 2013. Sneaker "jack" males outcompete dominant "hooknose" males under sperm competition in Chinook salmon (*Oncorhynchus tshawytscha*) *Ecology and Evolution* 3: 4987-4997.

(Note: This study was featured on cover)

(Note: Brent Young was our lab manager)

- **Dean, M. D.** 2013. Genetic disruption of the copulatory plug in mice leads to severely reduced fertility. *PLoS Genetics* 9:e1003185
- Campbell, P., J. M. Good, **M. D. Dean**, P. K. Tucker, M. W. Nachman. 2012. The contribution of the Y chromosome to hybrid male sterility in house mice. *Genetics* 191:1271-1281.
- Fang, F., E. Hodges, A. Molaro, **M. D. Dean**, G. J. Hannon, A. Smith. 2012. The genomic landscape of human allele-specific DNA methylation. *Proceedings of the National Academy of Sciences* 109: 7332-7337.
- **Dean, M. D.**, G. D. Findlay, M. R. Hoopmann, C. C. Wu, M. J. MacCoss, W. J. Swanson, M. W. Nachman. 2011. Identification of ejaculated proteins in the house mouse (*Mus domesticus*) via isotopic labeling. *BMC Genomics* 12: 306.
- Good, J. M., T. Giger, **M. D. Dean**, M. W. Nachman. 2010. Widespread over-expression of the X chromosome in sterile F1 hybrid mice. *PLoS Genetics* 6: e1001148.
- **Dean, M. D.**, N. L. Clark, G. D. Findlay, R. C. Karn, W. J. Swanson, X. Yi, M. MacCoss, and M. W. Nachman. 2009. Proteomics and comparative genomic investigations reveal heterogeneity in evolutionary rate of male reproductive proteins in mice (*Mus domesticus*) *Molecular Biology and Evolution* 26: 1733-1743. (Also winner of the postdoctoral poster competition at SMBE 2008)
- **Dean, M. D.** and M. W. Nachman. 2009. Faster fertilization rate in conspecific versus heterospecific matings in house mice. *Evolution* 63: 20-28.
- Good, J. M., **M. D. Dean**, and M. W. Nachman. 2008. A complex genetic basis to X-linked hybrid male sterility between two species of house mice. *Genetics* 179:2213-2228.
- **Dean**, **M. D.**, J. M. Good, and M. W. Nachman. 2008. Adaptive evolution of proteins secreted during sperm maturation: an analysis of the mouse epididymal transcriptome. *Molecular Biology and Evolution* 25:383-392.
- Laurie, C.C, D.A. Nickerson, A. Anderson, B.S. Weir, R.J. Livingston, **M. D. Dean**, K.L. Smith, E.E. Schadt, and M.W. Nachman. 2007. Linkage disequilibrium in wild mice. *PLoS Genetics* 3: e144.
- **Dean, M. D.**, K. G. Ardlie, and M. W. Nachman. 2006. The frequency of multiple paternity suggests that sperm competition is common in house mice (*Mus domesticus*). *Molecular Ecology* 15: 4141-4151.
- **Dean, M. D.** 2006. A Wolbachia-associated fitness benefit depends on genetic background in Drosophila simulans. Proceedings of the Royal Society of London series B-Biological Sciences 273: 1415-1420.

Dean, M. D. and J. W. O. Ballard. 2005. High divergence among *Drosophila simulans* mitochondrial haplogroups arose in midst of long term purifying selection. *Molecular Phylogenetics and Evolution* 36: 328-337.

- **Dean, M. D.** and J. W. O. Ballard. 2004. Linking phylogenetics with population genetics to reconstruct the geographic origin of a species. *Molecular Phylogenetics and Evolution* 32: 998-1009.
- **Dean, M. D.**, K. J. Ballard, A. Glass, and J. W. O. Ballard. 2003. Influence of two Wolbachia strains on population structure of east African *Drosophila simulans*. *Genetics* 165: 1959-1969.
- James, A. C., **M. D. Dean**, M. E. McMahon, and J. W. O. Ballard. 2002. Dynamics of double and single *Wolbachia* infections in *Drosophila simulans* from New Caledonia. *Heredity* 88: 182-189.
- Ballard, J. W. O. and **M. D. Dean**. 2001. The mitochondrial genome: mutation, selection and recombination. Current Opinion in *Genetics and Development* 11: 667-672.
- **Dean, M. D.** and J. W. O. Ballard. 2000. Factors affecting mitochondrial DNA quality from museum preserved *Drosophila simulans*. *Entomologia Experimentalis et Applicata* 98: 279-283.

INVITED RESEARCH SEMINARS 2023 Life Sciences, Arizona State University 2023 Biology of Sperm Meetings, Sweden 2023 Centro de Investigação em Biodiversidade e Recursos Genéticos (Portugal) 2019 Claremont Colleges Integrative Genetics and Genomics, UC Davis 2018 2018 Genetics Institute, University of Florida 2018 Florida Museum of Natural History Population Biology, University of Florida 2018 2017 American Association of Anatomists, invited symposium speaker 2017 Chicago Field Museum Biology of Sperm Meetings, Sheffield England 2017 2016 Society Integrative Biology, Portland Oregon (featured in http://science.sciencemag.org/content/351/6270/214.full) 2015 Biology of Sperm Meetings. Sheffield England 2015 École Polytechnique Fédérale de Lausanne 2014 AAAS, Molecular Reproduction and Development 2014 Department of Anatomy and Neurobiology, University of Tennessee 2013 Department of Biology, University of California at Riverside 2013 Darwin Day, University of Wisconsin at Madison 2013 Biological Sciences, University of Montana 2012 Los Angeles Natural History Museum 2012 Minority Action Plan 2012 Ecology and Evolutionary Biology, UC Irvine Programs in Biomedical and Biological Sciences, USC Keck School of Medicine 2011 2011 Reproductive Endocrinology and Infertility, USC Keck School of Medicine 2011 Molecular, Cell, and Developmental Biology. University of California at Los Angeles 2011 Genetics, University of Wisconsin at Madison 2010 Ecology, Evolution, and Marine Biology. University of California at Santa Barbara 2009 Ecology and Evolutionary Biology, University of California at Los Angeles Programs in Biomedical and Biological Sciences, USC Keck School of Medicine 2009 2009 Reproductive Endocrinology and Infertility, USC Keck School of Medicine

CONTRIBUTED PAPERS (SELECTED ORAL/POSTER PRESENTATIONS)

Friesen, C. R., C. Whittington, M. S. Plakke, R. T. Mason, D. O'Meally, R. Krohmer, N. L. Clark, M. D. **Dean**. Biology of Sperm. 2019. How do garter snakes make copulatory plugs? Convergent evolution of a trait involved in sexual conflict

- Schultz, N. G., M. Lough-Stevens, E. Abreu, T. Orr, M. D. Dean. 2016. Society for Integrative and Comparative Biology.
- Mangels, R. and M. D. Dean. 2013. Male and female genotype affects copulatory plug survival. Biology of Sperm, Bakewell, England.
- Dean, M. D. 2012. Positively selected codons are enriched on alternative exons. Society for Molecular Biology and Evolution, Dublin, Ireland.
- **Dean, M. D.** 2012. Genetic disruption of the copulatory plug leads to severely reduced fertility in mice. Evolution, Ottawa, Canada.
- **Dean, M. D.** 2011. *Transglutaminase IV* is necessary for copulatory plug formation and normal male
- fertility in house mice. Mouse Genetics, Washington D. C. **Dean, M. D.**, Good, J. M. and Nachman, M. W. 2007. Adaptive evolution of proteins secreted during sperm maturation: an analysis of the mouse epididymal transcriptome. Society for Molecular Biology and Evolution, Halifax, Nova Scotia.
- **Dean, M. D.** and Nachman, M. W. 2006. Sexual selection in house mice. Ecology and Evolutionary Biology seminar, Tucson, AZ.
- Dean, M. D. and Nachman, M. W. 2006. The evolution of male reproductive genes in house mice (genus Mus). Society for Molecular Biology and Evolution, Tempe, Arizona.
- Dean, M. D., Ardlie, K. G., and Nachman, M. W. 2005. Multiple mating in house mice. Society for the Study of Evolution, Fairbanks, Alaska.
- Dean, M. D. 2004. Voice entry databasing. International Society for Biological and Environmental Repositories, New York, New York (invited speaker).

FUNDING HISTORY

- 2023-2024 Genetics of fungal persistence and pathogenicity in mammalian hosts. National Institutes of Health #1R56Al171091-01A1, \$623,986 (\$179,674 indirects) Role: co-PI (Dr. Ian Ehrenreich PI)
- 2020-2024 Understanding the evolutionary forces that influence baculum divergence across three timescales. National Science Foundation #2027373, \$640,000 (\$252,121 indirects) Role: PI
- 2012-2018 CAREER: Understanding the function of the copulatory plug. National Science Foundation #1150259, \$990,675 (\$387,929 indirects) Role: PI
- 2012-2018 Evolutionary and functional genetics of male reproduction using wild mice as a model system, National Institutes of Health #1R01GM098536-01A1, \$1,856,969 (\$465,598) indirects). Role: PI
- 2012-2015 The influence of effective population size on the strength of selection imposed by mate choice. National Science Foundation #1146525, \$325,000 (\$126,876 indirects). Role: PI
- 2004-2007 Evolutionary genetics of male reproductive traits in *Mus*. National Institutes of Health, NRSA postdoctoral fellowship #F32GM070246-02 Role: PI

TEACHING (AMOUNT TAUGHT)		
2024 S	BISC499L	Advanced Techniques in Field Mammalogy (100%) (Maymester)
2023 F	BISC444	Practical Analysis of Biological Data in R (100% of 2 classes)
2023 S	BISC363	Mammalogy (50%)
2022 F	BISC444	Practical Analysis of Biological Data in R (100%)
2022 S	BISC363	Mammalogy (50%)
2021 S	BISC363	Mammalogy (50%)
2021 F	BISC444	Practical Analysis of Biological Data in R (100%)
2020 S	BISC499	Mammalogy (50%)
2020 S	BISC502B	Molecular Genetics and Biochemistry (~10 hours of lectures)
2019 F	BISC444	Practical Analysis of Biological Data in R (100%)
2019 S	BISC499	Mammalogy (50%) (new course)
2018 F	BISC444	Practical Analysis of Biological Data in R (100%)
2018 S	(sabbatical)	
2017 F	BISC444	Practical Analysis of Biological Data in R (100%)
2017 F	BISC325	Genetics (50%)
2017 F	BISC542	Seminar in Molecular Biology (50%)
2017 S	BISC313	Evolution and Population Genetics (50%)
2016 F	BISC325	Genetics (33%)
2016 S	BISC542	Seminar in Molecular Biology (50%)
2016 S	BISC544	Advanced Reading in Molecular Biology (100%)
2016 S	BISC313	Evolution and Population Genetics (50%)
2015 F	BISC325	Genetics (33%)
2014 S	BISC313	Evolution and Population Genetics (50%)
2013 F	BISC499	Hands-on Research at the Natural History Museum (50%) (new course)
2013 F	BISC325	Genetics (33%)
2013 S	BISC313	Evolution and Population Genetics (50%)
2013 S	BISC542	Seminar in Molecular Biology (100%)
2013 S	BISC544	Advanced Reading in Molecular Biology (100%)
2012 F	BISC542	Seminar in Molecular Biology (100%)
2012 S	BISC544	Advanced Reading in Molecular Biology (100%)
2012 S	BISC313	Evolution and Population Genetics (50%)
2012 S	BISC502B	Molecular Genetics and Biochemistry (~10 hours of lectures)
2012 S	BISC542	Seminar in Molecular Biology (100%)
2011 F	BISC325	Genetics (33%)
2011 F	BISC499	Introductory Bioinformatics (100%) (new course)
2011 S	BISC544	Advanced Reading in Molecular Biology
2011 S	BISC313	Evolution and Population Genetics (50%) (new course)
2011 S	BISC 502B	Molecular Genetics and Biochemistry (~10 hours of lectures)
2010 F	BISC325	Genetics (33%)

SOCIETY MEMBERSHIPS

Associate Editor for journal *Evolution*, 2019-2022

Society for Molecular Biology and Evolution

Society for the Study of Evolution

Genetics Society of America

Ad hoc reviewer for approximately 30 papers/grant proposals per year

SERVICE

2023-now Member of Institute for Animal Care and Use Committee (IACUC)

co-director ndergraduates, leader ease, co-director najors Biology ogram ogram g ology ogram ems Biology ess ogram ems Biology espeakers seminar committee
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TRAINEES

POSTDOCTORAL FELLOWS SUPERVISED

2013-2015 Jessica Crisci (co-supervised with Peter Ralph) 2020-presentBen Pomidor

GRADUATE STUDENTS SUPERVISED
2024- Quinn Fagersten (PhD Quinn Fagersten (PhD) Maeve Secor (PhD) 2022-

2022-	Charles Toney (PhD)
2017-	Caleb Ghione (PhD)
2016-2022	Michael Lough-Stevens (PhD)
2014-2019	Sara Keeble (PhD)
2014-2019	Nicholas Schultz (PhD)
2014-2016	Emily Kopania (Masters)
2014-2015	Christine Stafford (Masters)
2014-2016	Yiding Jia (Masters)
2011-2014	Jim Dines (PhD)
2011-2013	Kelly Kwan
2010-2016	Rachel Mangels (PhD)
2010-2016	Lorraine Provencio* (PhD)

ROTATION STUDENTS SUPERVISED

2020	Tram Dang
2019	Kelly Deweese
2017	Caleb Ghione
2016	Calista Allen
2015	Michael Lough-Stevens
2014	Nick Schultz
2013	Nathan Churches
2013	Yiding Jia
2013	Anh Nguyet Vu
2012	Percy Genyk
2012	Kelly Kwan
2011	Jacqueline Lo
2010	Rachel Mangels
2010	Lorraine Provencio*
2009	Amanda Jensen

GRADUATE STUDENT QUALIFYING EXAM & DISSERTATION COMMITTEE (PRIMARY ADVISOR) Maxim Kovalev (Nuzhdin)

2024	Maxim Kovalev (Nuzndin)
2024	Sunghyun Kim (McMahon)
2023	Chris De Neville (Ehrenreich)
2022	Gary Molano (Nuzhdin)
2021	Martin Mullis (Ehrenreich)
2021	Rachel Schell (Ehrenreich)
2021	Shanni Yamaki (McKemy)
2020	Amanda Meyer (McMahon)
2019	Peter Luu (Fraser)
2019	Nathan Churches (Nuzhdin)
2019	Ben Flanagan (Edmands)
2019	Taekyu Kang (Rachel Brem, Buck Institute)
2019	Gary Molano (Nuzhdin)
2019	Shanni Yamaki (Mckemy)
2018	Calista Allen (Nuzhdin)
2018	Jonathan Lee (Ehrenreich)
2018	Xiaojing Ji (Smith)
2018	Takeshi Matsui (Ehrenreich)
2017	Chia-An Yen (Curran)

Matt Taylor (Ehrenreich) Niaoshen Yin (Hedgecock) Junsong Zhao (Marjoram) Junsong Zhao (Marjoram) Colling Rob Linder (Ehrenreich) Dana Lynn (Curran) Emad Bahrami Samani (Smith) Jordan Eboreime* (Arnheim) Joshua Purves (Hedgecock) Wendy Vu (Nuzhdin) Barrett Phillips (Edmands) Peter Chang (Nuzhdin) Reza Dehestaniardekani (Tavaré James P. Dines (McNitt-Gray) Fang Fang (Smith) Bradley Jay Main (Nuzhdin) Austin Michael Paul (Hedgecock)	2015 2015 2014 2013 2013 2011 2011 2011 2011 2009 2009 2009 2009	Xiaoshen Yin (Hedgecock) Junsong Zhao (Marjoram) Rob Linder (Ehrenreich) Dana Lynn (Curran) Emad Bahrami Samani (Smith) Jordan Eboreime* (Arnheim) Joshua Purves (Hedgecock) Wendy Vu (Nuzhdin) Barrett Phillips (Edmands) Peter Chang (Nuzhdin) Reza Dehestaniardekani (Tavaré) James P. Dines (McNitt-Gray) Fang Fang (Smith) Bradley Jay Main (Nuzhdin) Austin Michael Paul (Hedgecock)
2009 Qiang Song (Smith)		` ,

<u>Undergraduate Students Supervised (scholarships awarded)</u> 2023- Abe Luedtke

2022-	Kate Manges-Douglas
2022-	Leah Perkins
2022-	Marissa Andrade*
2021-2023	Quinn Fagersten
2020-	Declan Bulwa
2020-	Clara Mccarthy
2020-	George Phillips
2020-	Declan Bulwa
2019-	Shelby Chickman
2018-2019	Juanna Xie
2018-2020	Colleen Sweeney
2017-2020	Nikhil Vettikattu
2017-2019	Adie Hobbs
2017-2019	Matt Urness
2016-2019	Nathalye Lopez*
2016-2018	Naina Chipalkatti
2016-2018	Jamie Clarke
2015-2016	Celine Kiner
2014-2015	Anna Burger
2014-2015	Max Cabaj
2014-2015	Christine Stafford

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2013-2014	Emily Kopania (Rose Hills Foundation)
2013-2014	Nick Schultz
2013-2017	Kathleen Tsung (Rose Hills Foundation)
2012-2014	Dominick Anderson-Parham* (USC Center for Genomic Excellence)
2012-2013	Karen Lu
2012-2013	Chelsea Milne
2012-2013	Zena Salim
2012-2013	Varun Sambhariya
2012-2013	Eric Wu
2012-2013	Francine Lang
2011-2013	Ryan McGee (USC Provost)
2010-2012	Michael Kessler
2010-2012	Veronica Winget
2011-2012	Lita Mallet* (USC Center for Genomic Excellence)
2011-2012	Joseph Jin
2010-2012	Armando Martinez*
2010-2012	Jeanney Kang (Rose Hills Foundation)
2009-2012	Amanda Johnston (Rose Hills Foundation, USC SOAR, USC SURF)
2009-2010	Traci Aoki (USC SURF)
2009-2010	Courtney Clayton* (USC Center for Genomic Excellence)
2009-2010	Robert Fragoza* (USC Center for Genomic Excellence)
HIGH SCHOO	L STUDENTS SUPERVISED
2023	Developed 6 hours of hands-on laboratory experience for 19 high school juniors
-	enrolled in USC's Neighborhood Academic Initiative summer course
2019	Joanna Albalouh (San Dimas High)

HIGH SCHOO	DL STUDENTS SUPERVISED
2023	Developed 6 hours of hands-on laboratory experience for 19 high school juniors
	enrolled in USC's Neighborhood Academic Initiative summer course
2019	Joanna Albalouh (San Dimas High)
2019	Mia Le (San Dimas High)
2019	Mohamed Haidar (San Dimas High)
2019	Ella Ray* (San Dimas High)
2019	Chloe Jones (San Dimas High)
2018-2020	Raymond Fedrick (Zoo Magnet)
2018-2020	Miya Khoo (Marlborough)
2018-2020	Declan Bulwa (Zoo Magnet)
2018	Raquel Frohlich
2017	Stephanie Duran
2016	Justin Chang (Troy Tech)
2016	Ebony Francisco* (Zoo Magnet)
2016	Emila Peters (Zoo Magnet)
2016	Tiger Schenkman (Zoo Magnet)
2016	Jennifer Yi (Troy Tech)
2014	Trevor Jackson* (San Dimas High)
2014	Anthony Martinez* (San Dimas High)
2014	Summer Smith* (Oaks Christian High)
2014	Winnie Umanzor* (San Dimas High)
2014-2016	Alanna Wolf (Marlborough)
2013-2014	Eric Abreu* (West Adams High)
2013-2014	Natalie Watson (Marlborough)
2013-2014	Martha Henriquez* (West Adams High)
2013-2014	Maria Munoz* (West Adams High)
2013-2014	Jhavet Wences* (West Adams High)

2009-2012	Jesse Alas* (West Adams High)
2012-2013	Kevin Li (San Ramon)
2011-2013	Charlie Sanchez* (West Adams High)
2011-2013	Neal Shah (Troy Tech High)
2011-2013	Jose Jaime* (West Adams High)
2011-2012	Jander Cruz* (West Adams High)
2011-2012	Vincent Hsu
2009-2011	Iris Salamanca* (West Adams High)

^{*}Minority students