

David Angeles-Albores

+1 607 379 4030 davidaalbores@gmail.com
@DavidAngeles13 [dangeles.github.io](https://github.com/dangeles)
<https://github.com/dangeles>
47 Garden St, Apt 4, Boston, MA, 02114

Education

- 2013–2018 **Ph.D., Biochemistry and Molecular Biophysics,
California Institute of Technology**
Defense Date: 18 September, 2018
Degree Awarded: 31 October, 2018
- 2009–2013 **B.A., cum laude, Biology
Cornell University**

Appointments

- 11/2019 – **Computational Biologist II, eGenesis**
7/2020 – **Visiting Scholar, Laboratory of Ilya Ruvinsky,
Northwestern University**
- 01/2019–11/2019 **Postdoctoral Associate, Laboratory of Eric J. Alm,
Massachusetts Institute of Technology**
- 11/2018–01/2019 **Postdoctoral Fellow, Labs of Paul W. Sternberg and Matt Thomson,
California Institute of Technology**

Research Publications

[†] denotes equal contributions.

Journal Articles

- 1 Basta, D. W., Angeles-Albores, D., Spero, M. A., Ciemniecki, J. A., & Newman, D. K. (2020). Heat-shock proteases promote survival of *Pseudomonas aeruginosa* during growth arrest. *Proceedings of the National Academy of Sciences of the United States of America*. doi:10.1073/pnas.1912082117
- 2 Duncan, E. M., Nowotarski, S. H., Guerrero-Hernández, C., Ross, E. J., D’Orazio, J. A., Clubes de Ciencia México, W. f. D. B., ... Alvarado, A. S. (2020). A new species of planarian flatworm from mexico: *Girardia guanajuatensis*. *bioRxiv*. doi:10.1101/2020.07.01.183442. eprint: <https://www.biorxiv.org/content/early/2020/07/02/2020.07.01.183442.full.pdf>
- 3 Angeles-Albores, D., & Sternberg, P. W. (2018). Using Transcriptomes as Mutant Phenotypes Reveals Functional Regions of a Mediator Subunit in *Caenorhabditis elegans*. *Genetics*, genetics.301133.2018. doi:10.1534/genetics.118.301133
- 4 [†]Angeles-Albores, D., [†]Puckett Robinson, Williams, B. A., Wold, B. J., & Sternberg, P. W. (2018). Reconstructing a metazoan genetic pathway with transcriptome-wide epistasis measurements. *Proceedings of the National Academy of Sciences*, 201712387. doi:10.1073/pnas.1712387115

- 5 †**Angeles-Albores, D.**, †Leighton, D. H. W., Tsou, T., Khaw, T. H., Antoshechkin, I., & Sternberg, P. W. (2017). The *Caenorhabditis elegans* Female-Like State: Decoupling the Transcriptomic Effects of Aging and Sperm Status. *G3 (Bethesda, Md.)* 7(9), 2969–2977. doi:10.1534/g3.117.300080
- 6 **Angeles-Albores, D.**, N. Lee, R. Y., Chan, J., & Sternberg, P. W. (2016). Tissue enrichment analysis for *C. elegans* genomics. *BMC Bioinformatics*, 17(1), 366. doi:10.1186/s12859-016-1229-9
- 7 Albores-Saavedra, J., Chable-Montero, F., **Angeles-Albores, D.**, Schwartz, A., Klimstra, D. S., & Henson, D. E. (2011). Early Gallbladder Carcinoma. *American Journal of Clinical Pathology*, 135(4), 637–642. doi:10.1309/AJCPFRKCFEDLV03Y
- 8 Albores-Saavedra, J., Schwartz, A. M., Henson, D. E., Kostun, L., Hart, A., **Angeles-Albores, D.**, & Chablé-Montero, F. (2011). Cutaneous angiosarcoma. Analysis of 434 cases from the surveillance, epidemiology, and end results program, 1973–2007. *Annals of Diagnostic Pathology*, 15(2), 93–97. doi:10.1016/j.anndiagpath.2010.07.012

μPublications

- 1 **Angeles-Albores, D.**, N. Lee, R. Y., Chan, J., & Sternberg, P. W. (2018). Two new functions in the WormBase Enrichment Suite. *microPublication Biology*. doi:10.17912/W25Q2N

Scientific Talks

- 2019 **Probabilistic Modeling in Genomics**
Genetics is an active learning algorithm for causal reconstruction of biological networks
Hanna H Gray Semifinalist Symposium
Phenotypes, epistasis, and probability theory
ASBMB Special Symposium: Evolution and Core Processes in Gene Expression
Transcriptomes as phenotypes
- 2018 **Bay Area Worm Meeting**
Allelic series analyses using transcriptomic phenotypes
- 2017 **21st C. elegans International Meeting**, WormBase: Tools, Content and Community Annotation, Workshop
Gene Set Analysis tool for Gene Ontology (GO), Phenotype, and Tissue Enrichment
Annual Departmental Retreat, California Institute of Technology
Genome-wide, unbiased experimental genetics
Biochemistry and Molecular Biophysics Seminar Series, California Institute of Technology
Transcriptomic Genetics: A new way to use RNA-sequencing data
Center for Environmental Microbial Interactions, California Institute of Technology
Genome-wide unbiased experimental genetics
- 2016 **Annual Biochemistry and Molecular Biophysics Program Retreat**, California Institute of Technology
Reconstruction of a genetic pathway using whole-organism expression profiles
Graduate Biology Seminar, California Institute of Technology
Transcriptome-wide epistasis in mRNA expression profiles

Awards

2020	eGenesis Leadership Award, for efforts towards building a Computational Biology Unit at eGenesis
2019	HHMI Hanna Gray Fellow Finalist
2015	Florence C. Rose and S. Meryl Rose Endowed Scholarship for attendance to the Embryology course at the Marine Biological Laboratory
2014	Amgen Graduate Student Fellowship
2012	EXROP Capstone Award
2011	EXROP HHMI Summer Fellowship

Scientific Courses

2015	Embryology, Marine Biological Laboratory at Woods Hole
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Teaching and Mentoring Experience

Teaching

2017–2018	Systems Genetics , Teaching Assistant, <i>California Institute of Technology</i>
2016	Introduction to Biology , Teaching Assistant, <i>California Institute of Technology</i>
2015	Order of Magnitude Biology , Teaching Assistant, <i>California Institute of Technology</i>
2014	Advanced Experimental Methods in Bioorganic Chemistry , Teaching Assistant, <i>California Institute of Technology</i>

Mentoring

2016–2019	Kyung Hoi Min , Caltech undergraduate, experimental and computational student, <i>California Institute of Technology</i>
Summer 2018	Vladimir Molchanov , Saint Petersburg Bioinformatics Institute undergraduate, experimental student, <i>California Institute of Technology</i>
Summer 2015	Tiffany Tsou , UCSB undergraduate, experimental student, <i>California Institute of Technology</i>
2014–2015	Isabelle Phinney , Polytechnic School, computational student, <i>California Institute of Technology</i>

Outreach

2017	Speaker , <i>What is Clubes de Ciencias Mexico?</i> , SACNAS
2016	Co-instructor , <i>De Planarias y Derivas</i> , Clubes de Ciencia México, Guanajuato
	Co-instructor , <i>De Genes y Animales</i> , Clubes de Ciencia México, Ensenada
2015	Student selection committee , Clubes de Ciencia México
2014	Guest instructor , <i>Biología a través de los números</i> , Clubes de Ciencia México, Ensenada

Scientific Societies

2014–Present Genetics Society of America
2015–Present Society for Developmental Biology

References

Professor Paul W. Sternberg
California Institute of Technology,
MC 156–29, Pasadena CA 91125
✉ pws@caltech.edu

Professor Dianne K. Newman
California Institute of Technology,
MC 147–75, Pasadena CA 91125
✉ dkn@caltech.edu

Assistant Professor Matthew Thomson
California Institute of Technology,
216–76, Pasadena CA 91125
✉ mthomson@caltech.edu

**Assistant Research Professor
Erich M. Schwarz**
Cornell University,
Biotechnology 351,
Cornell University, Ithaca,
NY 14853–2703
✉ ems394@cornell.edu