

# David Angeles-Albores

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## 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 of Technology**
- 11/2018–01/2019    **Postdoctoral Fellow**, Labs of Paul W. Sternberg and Matt Thomson,  
**California Institute of Technology**

## Research Publications

<sup>†</sup> 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    <sup>†</sup>**Angeles-Albores, D.**, <sup>†</sup>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 **21<sup>st</sup> 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

- 2019 HHMI Hanna Gray Fellow Finalist

## Awards (continued)

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

### Mentoring

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

## Outreach

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

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**Professor Paul W. Sternberg**  
California Institute of Technology,  
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**Professor Dianne K. Newman**  
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