

# 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

- II/2019 –      **Computational Biologist II**, eGenesis
- 01/2019–II/2019      **Postdoctoral Associate**, Laboratory of Eric J. Alm,  
Massachusetts of Technology
- II/2018–01/2019      **Postdoctoral Fellow**, Labs of Paul W. Sternberg and Matt Thomson,  
California Institute of Technology

## Research Publications

<sup>†</sup> denotes equal contributions.

### In Preparation, Press or Revision

- 1 Angeles-Albores, D., Min, K.-H., Lee, R. Y., Chan, J., & Sternberg, P. W. (2019). Alaska: Automated rna-seq analysis software for wormbase. *In preparation*.
- 2 Basta, D., Angeles-Albores, M. A., Spero, Cierniecki, J. A., David, & Newman, D. K. (2019). Heat shock proteases delay cell death during *Pseudomonas aeruginosa* growth arrest. *Proceedings of the National Academy of Sciences*. In press.

### Journal Articles

- 1 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
- 2 <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
- 3 <sup>†</sup>Angeles-Albores, D., <sup>†</sup>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

- 4 **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
- 5 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
- 6 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
- 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

## Awards (continued)

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2011 EXROP HHMI Summer Fellowship

## Scientific Courses

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2015 Embryology, Marine Biological Laboratory at Woods Hole

## Teaching and Mentoring Experience

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### Teaching

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

### Mentoring

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

## Outreach

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

## Scientific Societies

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

## References

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