



David Angeles-Albores, Ph.D.

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in LinkedIn

🌐 <https://dangeles.github.io/>

Education

- 2013–2018  **Ph.D.**, Biochemistry and Molecular Biophysics,
California Institute of Technology
- 2009–2013  **B.A., *cum laude***, Computational and Molecular Biology
Cornell University



Appointments












- 01/2022 - Present  **Sr Computational Scientist**, Altos Labs
I joined Altos Labs at launch. As one of the first bioinformaticians, I was a key contributor to its lead rejuvenation candidate program. I helped build out the genomics platforms for Altos Labs, and identified and initiated AI/ML research programs that are considered of top strategic importance.
- 07/2020 - Present  **Visiting Scholar**, Northwestern University
In my free time, I research the effects of pheromone signaling on the lifespan, healthspan and sexual behaviors of *C. elegans* in the lab of Ilya Ruvinsky.
- 03/2021 - 01/2022  **Senior Scientist I**, Rheos Medicines
I developed precision biology methods using multimodal genomics measurements to identify responder and non-responder populations to candidate drugs. Rheos was unable to secure Series B funding in 2021 and closed its doors in 2022.
- 11/2019 - 3/2021  **Computational Biologist II**, eGenesis
I computationally designed a compendium of pig promoters that stably express genes ubiquitously or with high tissue-specificity at controlled levels in pig organs. I also developed methods to identify safe harbors resistant to epigenetic silencing. This work resulted in the transplantation of a pig kidney into a patient with end-stage renal disease who was able to leave the hospital without dialysis, and was featured in the **New York Times**.
- 01/2019–11/2019  **Postdoctoral Associate**, MIT,
Lab of Eric J. Alm
I developed computational methods to deconvolute individual transcriptomes from metatranscriptomes collected from communities with a known bacterial composition without the need for any molecular barcodes.

Research Publications

† indicates equal contribution.

The Workshop for Developmental Biology, Clubes de Ciencias was taught and developed by me.

- 1 X. A. Yu, C. McLean, J.-H. Hehemann, **D. Angeles-Albores**, F. Wu, A. Muszyński, C. H. Corzett, P. Azadi, E. B. Kujawinski, E. J. Alm, and M. F. Polz, “Low-level resource partitioning supports coexistence among functionally redundant bacteria during successional dynamics,” *The ISME Journal*, vol. 18, no. 1, wrad013, Jan. 2024, ISSN: 1751-7362.  DOI: 10.1093/ismejo/wrad013. eprint: <https://academic.oup.com/ismej/article-pdf/18/1/wrad013/56820904/wrad013.pdf>.
- 2 A. R. Albright, **D. Angeles-Albores**, and W. Marshall, “Genome wide-analysis of anterior-posterior mrna localization in *Stentor coeruleus* reveals a role for the microtubule cytoskeleton,” *bioRxiv*, 2023.  DOI: <https://doi.org/10.1101/2023.01.09.523364>.

- 3 R. P. Anand, J. V. Layer, D. Heja, T. Hirose, G. Lassiter, D. J. Firl, V. B. Paragas, A. Akkad, S. Chhangawala, R. B. Colvin, R. J. Ernst, N. Esch, K. Getchell, A. K. Griffin, X. Guo, K. C. Hall, P. Hamilton, L. A. Kalekar, Y. Kan, A. Karadagi, F. Li, S. C. Low, R. Matheson, C. Nehring, R. Otsuka, M. Pandelakis, R. A. Policastro, R. Pols, L. Queiroz, I. A. Rosales, W. T. Serkin, K. Stiede, T. Tomosugi, Y. Xue, G. E. Zentner, **D. Angeles-Albores**, J. Chris Chao, J. N. Crabtree, S. Harken, N. Hinkle, T. Lemos, M. Li, L. Pantano, D. Stevens, O. D. Subedar, X. Tan, S. Yin, I. J. Anwar, D. Aufhauser, S. Capuano, D. B. Kaufman, S. J. Knechtle, J. Kwun, D. Shanmuganayagam, J. F. Markmann, G. M. Church, M. Curtis, T. Kawai, M. E. Youd, and W. Qin, "Design and testing of a humanized porcine donor for xenotransplantation," *Nature*, vol. 622, no. 7982, pp. 393–401, 2023.  DOI: 10.1038/s41586-023-06594-4.
- 4 **D. Angeles-Albores**, E. Z. Aprison, S. Dzitoyeva, and I. Ruvinsky, "A *Caenorhabditis elegans* male pheromone feminizes germline gene expression in hermaphrodites and imposes life-history costs," *Molecular Biology and Evolution*, vol. 40, no. 6, msad119, May 2023.
- 5 E. Z. Aprison, S. Dzitoyeva, **D. Angeles-Albores**, and I. Ruvinsky, "A male pheromone that improves the quality of the oogenic germline," *Proceedings of the National Academy of Sciences*, vol. 119, no. 21, e2015576119, 2022.  DOI: 10.1073/pnas.2015576119. eprint: <https://www.pnas.org/doi/pdf/10.1073/pnas.2015576119>.
- 6 E. M. Duncan, S. H. Nowotarski, C. Guerrero-Hernández, E. J. Ross, J. A. D'Orazio, W. f. D. B. Clubes de Ciencia México, S. McKinney, M. C. McHargue, L. Guo, M. McClain, and A. S. Alvarado, "Molecular characterization of a flatworm *Girardia* isolate from guanajuato, mexico," *Developmental Biology*, vol. 489, pp. 165–177, 2022, ISSN: 0012-1606.  DOI: <https://doi.org/10.1016/j.ydbio.2022.06.003>.
- 7 D. W. Basta, **D. Angeles-Albores**, M. A. Spero, J. A. Ciemniecki, and D. K. Newman, "Heat-shock proteases promote survival of *Pseudomonas aeruginosa* during growth arrest," *Proceedings of the National Academy of Sciences of the United States of America*, 2020, ISSN: 10916490.  DOI: 10.1073/pnas.1912082117.
- 8 **D. Angeles-Albores**, R. Y. N. Lee, J. Chan, and P. W. Sternberg, "Two new functions in the WormBase Enrichment Suite," *microPublication Biology*, 2018.  DOI: 10.17912/W25Q2N.
- 9 **D. Angeles-Albores** and P. W. Sternberg, "Using Transcriptomes as Mutant Phenotypes Reveals Functional Regions of a Mediator Subunit in *Caenorhabditis elegans*," *Genetics*, genetics.301133.2018, Jul. 2018, ISSN: 1943-2631.  DOI: 10.1534/genetics.118.301133.
- 10 **D. Angeles-Albores**[†], C. Puckett Robinson[†], B. A. Williams, B. J. Wold, and P. W. Sternberg, "Reconstructing a metazoan genetic pathway with transcriptome-wide epistasis measurements," *Proceedings of the National Academy of Sciences*, p. 201712387, 2018, ISSN: 0027-8424.  DOI: 10.1073/pnas.1712387115.
- 11 **D. Angeles-Albores**[†], D. H. W. Leighton[†], T. Tsou, T. H. Khaw, I. Antoshechkin, and P. W. Sternberg, "The *Caenorhabditis elegans* Female-Like State: Decoupling the Transcriptomic Effects of Aging and Sperm Status," *G3 (Bethesda, Md.)*, vol. 7, no. 9, pp. 2969–2977, 2017, ISSN: 2160-1836.  DOI: 10.1534/g3.117.300080.
- 12 **D. Angeles-Albores**, R. Y. N. Lee, J. Chan, and P. W. Sternberg, "Tissue enrichment analysis for *C. elegans* genomics," *BMC Bioinformatics*, vol. 17, no. 1, p. 366, 2016, ISSN: 1471-2105.  DOI: 10.1186/s12859-016-1229-9.
- 13 J. Albores-Saavedra, F. Chable-Montero, **D. Angeles-Albores**, A. Schwartz, D. S. Klimstra, and D. E. Henson, "Early Gallbladder Carcinoma," *American Journal of Clinical Pathology*, vol. 135, no. 4, pp. 637–642, Apr. 2011, ISSN: 0002-9173.  DOI: 10.1309/AJCPFRKCFEDLV03Y.
- 14 J. Albores-Saavedra, A. M. Schwartz, D. E. Henson, L. Kostun, A. Hart, **D. Angeles-Albores**, and F. Chablé-Montero, "Cutaneous angiosarcoma. Analysis of 434 cases from the surveillance, epidemiology, and end results program, 1973-2007," *Annals of Diagnostic Pathology*, vol. 15, no. 2, pp. 93–97, 2011, ISSN: 10929134.  DOI: 10.1016/j.anndiagpath.2010.07.012.

Awards

2020	■ eGenesis Leadership Award
2019	■ HHMI Hanna Gray Fellow Finalist
2015	■ Florence C. Rose and S. Meryl Rose Endowed Scholarship
2014	■ Amgen Graduate Student Fellowship
2012	■ EXROP Capstone Award
2011	■ EXROP HHMI Summer Fellowship