Stanford

Douglas Porter

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Bio

CURRENT ROLE AT STANFORD

Research Scientist, Khavari Lab

LINKS

- Khavari Lab: http://khavarilab.stanford.edu

Publications

PUBLICATIONS

- **Disease-linked regulatory DNA variants and homeostatic transcription factors in epidermis.** *Nature communications*
  Porter, D. F., Meyers, R. M., Miao, W., Reynolds, D. L., Hong, A. W., Yang, X., Srinivasan, S., Mondal, S., Siprashvili, Z., Fabo, T., Zhou, R., Nguyen, T., Ducoli, et al
  2025; 16 (1): 8387

- **Publisher Correction: irCLIP-RNP and Re-CLIP reveal patterns of dynamic protein assemblies on RNA.** *Nature*
  Ducoli, L., Zarnegar, B. J., Porter, D. F., Meyers, R. M., Miao, W., Riley, N. M., Srinivasan, S., Jackrazi, L. V., Yang, Y. Y., Li, Z., Wang, Y., Bertozzi, C. R., Flynn, et al
  2025

- **irCLIP-RNP and Re-CLIP reveal patterns of dynamic protein assemblies on RNA.** *Nature*
  Ducoli, L., Zarnegar, B. J., Porter, D. F., Meyers, R. M., Miao, W., Riley, N. M., Srinivasan, S., Jackrazi, L. V., Yang, Y. Y., Li, Z., Wang, Y., Bertozzi, C. R., Flynn, et al
  2025

- **The Adhesion GPCR ADGRL2 engages Ga13 to Enable Epidermal Differentiation.** *bioRxiv : the preprint server for biology*
  Yang, X., He, F., Porter, D. F., Garbett, K., Meyers, R. M., Reynolds, D. L., Bui, D. L., Hong, A., Ducoli, L., Siprashvili, Z., Lopez-Pajares, V., Mondal, S., Ko, et al
  2025

- **Functional analysis of cancer-associated germline risk variants.** *Nature genetics*
  Kellman, L. N., Neela, P. H., Srinivasan, S., Siprashvili, Z., Shanderson, R. L., Hong, A. W., Rao, D., Porter, D. F., Reynolds, D. L., Meyers, R. M., Guo, M. G., Yang, X., Zhao, et al
  2025

- **DDX50 cooperates with STAU1 to effect stabilization of pro-differentiation RNAs.** *Cell reports*
  Miao, W., Porter, D. F., Siprashvili, Z., Ferguson, I. D., Ducoli, L., Nguyen, D. T., Ko, L. A., Lopez-Pajares, V., Srinivasan, S., Hong, A. W., Yang, Y. Y., Cao, Z., Meyers, et al
  2025; 44 (1): 115174

- **Repurposing an epithelial sodium channel inhibitor as a therapy for murine and human skin inflammation.** *Science translational medicine*
  Winge, M. C., Nasrallah, M., Jackrazi, L. V., Guo, K. Q., Fuhriman, J. M., Szafran, R., Ramanathan, M., Gurevich, I., Nguyen, N. T., Siprashvili, Z., Inayathullah, M., Rajadas, J., Porter, et al
  2024; 16 (777): eade5915

- **Glucose binds and activates NSUN2 to promote translation and epidermal differentiation.** *Nucleic acids research*

Miao, W., Porter, D. F., Li, Y., Meservey, L. M., Yang, Y. Y., Ma, C., Ferguson, I. D., Tien, V. B., Jack, T. M., Ducoli, L., Lopez-Pajares, V., Tao, S., Savage, et al
2024

- **Cell-type-specific interacting proteins collaborate to regulate the timing of Cyclin B protein expression in male meiotic prophase.** *Development (Cambridge, England)*
  Baker, C. C., Gallicchio, L., Matias, N. R., Porter, D. F., Parsanian, L., Taing, E., Tam, C., Fuller, M. T.
  2023

- **Glucose dissociates DDX21 dimers to regulate mRNA splicing and tissue differentiation.** *Cell*
  Miao, W., Porter, D. F., Lopez-Pajares, V., Siprashvili, Z., Meyers, R. M., Bai, Y., Nguyen, D. T., Ko, L. A., Zarnegar, B. J., Ferguson, I. D., Mills, M. M., Jilly-Rehak, C. E., Wu, et al
  2023; 186 (1): 80

- **Analyzing RNA-Protein Interactions by Cross-Link Rates and CLIP-seq Libraries.** *Current protocols*
  Porter, D. F., Garg, R. M., Meyers, R. M., Miao, W., Ducoli, L., Zarnegar, B. J., Khavari, P. A.
  2023; 3 (1): e659

- **PROBER identifies proteins associated with programmable sequence-specific DNA in living cells.** *Nature methods*
  Mondal, S., Ramanathan, M., Miao, W., Meyers, R. M., Rao, D., Lopez-Pajares, V., Siprashvili, Z., Reynolds, D. L., Porter, D. F., Ferguson, I., Neela, P., Zhao, Y., Meservey, et al
  2022; 19 (8): 959-968

- **Targeted Proteomic Approaches for Proteome-Wide Characterizations of the AMP-Binding Capacities of Kinases.** *Journal of proteome research*
  Miao, W., Yin, J., Porter, D. F., Jiang, X., Khavari, P. A., Wang, Y.
  2022

- **easyCLIP analysis of RNA-protein interactions incorporating absolute quantification.** *Nature communications*
  Porter, D. F., Miao, W., Yang, X., Goda, G. A., Ji, A. L., Donohue, L. K., Aleman, M. M., Dominguez, D., Khavari, P. A.
  2021; 12 (1): 1569

- **Records of RNA locations in living yeast revealed through covalent marks** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Medina-Munoz, H. C., Lapointe, C. P., Porter, D. F., Wickens, M.
  2020; 117 (38): 23539–47

- **Distinct RNA-binding modules in a single PUF protein cooperate to determine RNA specificity.** *Nucleic acids research*
  Qiu, C., Dutcher, R. C., Porter, D. F., Arava, Y., Wickens, M., Hall, T. M.
  2019

- **Unbiased screen of RNA tailing activities reveals a poly(UG) polymerase** *NATURE METHODS*
  Preston, M. A., Porter, D. F., Chen, F., Buter, N., Lapointe, C. P., Keles, S., Kimble, J., Wickens, M.
  2019; 16 (5): 437-+

- **Methods to study RNA-protein interactions (vol 16, pg 225, 2019)** *NATURE METHODS*
  Ramanathan, M., Porter, D. F., Khavari, P. A.
  2019; 16 (4): 351

- **Methods to study RNA-protein interactions.** *Nature methods*
  Ramanathan, M., Porter, D. F., Khavari, P. A.
  2019; 16 (3): 225–34

- **Toward Identifying Subnetworks from FBF Binding Landscapes in Caenorhabditis Spermatogenic or Oogenic Germlines** *G3-GENES GENOMES GENETICS*
  Porter, D. F., Prasad, A., Carrick, B. H., Kroll-Connor, P., Wickens, M., Kimble, J.
  2019; 9 (1): 153–65

- **An RNA-Binding Multimer Specifies Nematode Sperm Fate** *CELL REPORTS*
  Aoki, S. T., Porter, D. F., Prasad, A., Wickens, M., Bingman, C. A., Kimble, J.
  2018; 23 (13): 3769–75