Stanford

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Carl J. Herzog Professor of Dermatology in the School of Medicine

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ACADEMIC CONTACT INFORMATION

- **Alternate Contact**
  Michela Pilo - Executive Assistant
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Bio

BIO

Dr. Khavari only sees U.S. veteran patients at the VA Palo Alto Healthcare System

CLINICAL FOCUS

- Cancer > Cutaneous (Dermatologic) Oncology
- Dermatology
- General Dermatology

ACADEMIC APPOINTMENTS

- Professor, Dermatology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Chair Department of Dermatology, Stanford University School of Medicine, (2010- present)
- Chief, Dermatology Service, VA Palo Alto Healthcare System, (1993- present)
- Co-Director, Stanford Program in Epithelial Biology, (1999- present)

PROFESSIONAL EDUCATION

- Medical Education: Yale School Of Medicine (1988) CT
- Fellowship: Stanford University School of Medicine (1994) CA
- Residency: Stanford University School of Medicine (1991) CA
- Board Certification: Dermatology, American Board of Dermatology (1992)
- Internship: Yale-New Haven Hospital (1989) CT
- Residency: Yale - New Haven Hospital (1990) CT

LINKS

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

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our experimental focus is on the mammalian setting using multiomics, informatics, mouse genetics, human genetics, single cell studies, and new human tissue platforms. The latter encompass human skin regenerated on immune deficient mice as well as organotypic constructs with epithelial and stromal cells embedded within architecturally faithful mesenchyma in vitro. These new models, which we term Multi-Functional Human Tissue Genetics, allow up to 10 alleles or more to be altered simultaneously, permitting genetic experiments with an unprecedented degree of rapidity and complexity.

Stem cell biology and differentiation

In stratified epithelia proliferative basal cells adherent to the underlying basement membrane undergo cell cycle arrest then outward migration and terminal differentiation. This process is mediated by 2 mutually exclusive programs of gene expression: 1) an undifferentiated program supporting proliferation by stem cells within the basal layer and 2) a differentiation program instructing growth arrest and differentiation-associated programmed cell death in suprabasal layers. The control of this transition from epithelial stem cell to differentiated corneocyte, which is abnormal in epidermal cancers, is not well understood. We are currently pursuing studies of the dominant signaling and gene regulatory networks that control this process, including the Ras/MAPK cascade, which is required for stem cell-mediated self-renewal and the p53 transcription factor family member, p63, which is required for epidermal differentiation.

Epigenetic regulation by histone modifying proteins and noncoding RNA

In addition to classical gene regulatory networks noted above, we have recently identified a central role for additional biologic mechanisms, namely gene regulation by chromatin regulators and by noncoding RNAs. Epigenetic control of gene expression lasts through multiple cell divisions without alterations in primary DNA sequence and can occur via mechanisms that include histone modification and DNA methylation. Noncoding RNA sequences can regulate gene expression via interactions with epigenetic and other control mechanisms. The function of histone modifying epigenetic regulators and noncoding RNA as central mediators of epithelial stem cell renewal and differentiation represent major emerging areas of study in the lab.

Cancer

Skin malignancies, including epidermal squamous cell carcinoma (SCC), alone account for nearly as many cancers as all other tissues combined. Progress in understanding epithelial carcinogenesis has been hindered in the past by a lack of models that faithfully recapitulate the 3-dimensional architecture of tumor-stroma co-evolution. To address this and to also study the oncogenic potential of unregulated function of dominant regulators of epithelial homeostasis noted above, we developed Multi-Functional Human Tissue Genetics noted above which, when combined with skin tissue regeneration on immune deficient mice, has permitted the molecular reconstruction of events sufficient to trigger human cancer. These models are being used to systematically elucidate proteins required for cutaneous carcinogenesis and to test their potential role as therapeutic targets.

Molecular Therapeutics

Epithelial tissues in general and skin in particular offer an attractive site for development of new approaches in molecular therapeutics. A family of human genetic skin diseases is characterized by defective epithelial gene expression. Among the most severe of these are subtypes of epidermolysis bullosa (EB) and lamellar ichthyosis (LI). We have developed approaches for high efficiency gene transfer to EB and LI patient skin tissue that are corrective at biochemical, histologic, clinical and functional levels. In addition to EB subtypes and LI, similar corrective efforts have also been undertaken with a number of other genetic skin disorders.

CLINICAL TRIALS

- Analysis of Cutaneous and Hematologic Disorders by High-Throughput Nucleic Acid Sequencing, Recruiting
- Characteristics of Patients With Recessive Dystrophic Epidermolysis Bullosa, Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Elizabeth Ener, Franco Felix, Michelle Kinney

Doctoral Dissertation Advisor (AC)

Ibtihal Elfaki, Tania Fabo, Leandra Jackrazi, Gyu Kim, Christopher Lopez, David Lu, Lindsey Meservey

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Dermatology (Fellowship Program)
- Molecular and Genetic Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Ubiquitin-like proteins NEDD8 and SUMO2 control epithelial homeostasis, regeneration, and inflammation.** *Science (New York, N.Y.)*
  Winge, M. C., Jackrazi, L. V., Porter, D. F., Srinivasan, S., Lopez-Pajares, V., Li, D. J., Pham, B., Houser, A., Cha, S. H., Meyers, R. M., Ko, L. A., Ducoli, L., Miao, et al
  2026; 392 (6805): eaeb3900
- **Bridging technical innovation and computational advances in studies of RNA-protein assemblies.** *Nature reviews. Genetics*
  Ducoli, L., Srinivasan, S., Amjadi, E., Khavari, P. A.
  2026
- **Regulation of RNA-binding proteins by small biomolecules.** *Nature reviews. Molecular cell biology*
  Miao, W., Porter, D. F., Lopez-Pajares, V., Khavari, P. A.
  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
- **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
- **Advances in cutaneous squamous cell carcinoma.** *Nature reviews. Cancer*
  Winge, M. C., Kellman, L. N., Guo, K., Tang, J. Y., Swetter, S. M., Aasi, S. Z., Sarin, K. Y., Chang, A. L., Khavari, P. A.

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

- **The dynamic, combinatorial cis-regulatory lexicon of epidermal differentiation.** *Nature genetics*
  Kim, D. S., Risca, V. I., Reynolds, D. L., Chappell, J., Rubin, A. J., Jung, N., Donohue, L. K., Lopez-Pajares, V., Kathiria, A., Shi, M., Zhao, Z., Deep, H., Sharmin, et al
  2021

- **Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma.** *Cell*
  Ji, A. L., Rubin, A. J., Thrane, K., Jiang, S., Reynolds, D. L., Meyers, R. M., Guo, M. G., George, B. M., Mollbrink, A., Bergenstråhle, J., Larsson, L., Bai, Y., Zhu, et al
  2020; 182 (6): 1661-1662

- **Coupled Single-Cell CRISPR Screening and Epigenomic Profiling Reveals Causal Gene Regulatory Networks.** *Cell*
  Rubin, A. J., Parker, K. R., Satpathy, A. T., Qi, Y., Wu, B., Ong, A. J., Mumbach, M. R., Ji, A. L., Kim, D. S., Cho, S. W., Zarnegar, B. J., Greenleaf, W. J., Chang, et al
  2018

- **Characterizations of G-Quadruplex RNA-Protein Interactions in Living Cells.** *Analytical chemistry*
  Tang, F., Liang, X., Porter, D. F., Miao, W., Maehlmann, K., Yuan, J., Khavari, P. A., Wang, Y.
  2026

- **The adhesion GPCR ADGRL2 engages Galpha13 to enable epidermal differentiation.** *Proceedings of the National Academy of Sciences of the United States of America*
  Yang, X., He, F., Lopez-Pajares, V., Porter, D. F., Garbett, K., Siprashvili, Z., Ducoli, L., Meyers, R. M., Reynolds, D. L., Lan Huong Bui, D., Hong, A., Nguyen, D. T., Jing, et al
  2025; 122 (47): e2508436122

- **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

- **Iron-sensitive RNA regulation by poly C-binding proteins.** *Nucleic acids research*
  Goda, G. A., Forbes, K., Sullivan, M. E., Eramo, G. A., Breen, C., Porter, D. F., Khavari, P. A., Dominguez, D., Aleman, M. M.
  2025; 53 (18)

- **Interactions Between Dietary Metabolites and Regulatory Risk Variants for Human Colon Cancer.** *bioRxiv : the preprint server for biology*
  Fabo, T. N., Meyers, R. M., Padhi, E., Kellman, L. N., Zhao, Y., Kundu, S., Reynolds, D. L., Chen, Z., Yang, X., Ko, L., Elfaki, I., Montgomery, S. B., Khavari, et al
  2025

- **The lineage master transcription factor p63 cooperates with FOXK1, a cancer-specific cofactor, to mediate oncogenic 3D chromatin dynamics in squamous cell carcinoma**
  Lopez-Pajares, Jung, N., Donohue, L., Guo, M., Khavari, P.
  ELSEVIER SCIENCE INC.2025: S99

- **Glucose binds and modulates the function of RNA helicases in epidermal differentiation**
  Miao, W., Porter, D., Lopez-Pajares, V., Khavari, P.
  ELSEVIER SCIENCE INC.2025: S159

- **Glucose binds and modulates the function of RNA helicases in epidermal differentiation**
  Miao, W., Porter, D., Lopez-Pajares, Khavari, P.
  ELSEVIER SCIENCE INC.2025

- **Sumoylation and neddylation are opposing forces in stratified epithelial homeostasis**
  Winge, M. C., Jackrazi, L., Porter, D., Ko, L., Meyers, R. M., Cha, S. H., Guo, K. Q., Miao, W., Mondal, S., Reynolds, D. L., Ducoli, L., Zarnegar, B., Khavari, et al

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- **In vivo CRISPRi screen reveals lncRNA portfolio crucial for cutaneous squamous cell carcinoma tumor growth.** *The Journal of investigative dermatology*
  Kim, G., Siprashvili, Z., Yang, X., Meyers, J. M., Ji, A., Khavari, P. A., Ducoli, L.
  2025
- **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
- **Glucose modulates IRF6 transcription factor dimerization to enable epidermal differentiation.** *Cell stem cell*
  Lopez-Pajares, V., Bhaduri, A., Zhao, Y., Gowrishankar, G., Donohue, L. K., Guo, M. G., Siprashvili, Z., Miao, W., Nguyen, D. T., Yang, X., Li, A. M., Tung, A. S., Shanderson, 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
- **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
- **A large-scale TF-DNA interaction map in primary keratinocytes and its relation to skin disease-linked regulatory variants**
  Porter, D. F., Reynolds, D. L., Miao, W., Meyers, R. M., Hong, A. W., Yang, X., Ducoli, L., Mondal, S., Siprashvili, Z., Elfaki, I., Srinivasan, S., Khavari, P. A.
  ELSEVIER SCIENCE INC.2024: S71
- **p63 cooperates with FOXK1 to mediate oncogenic 3D chromatin dynamics**
  Lopez-Pajares, V., Jung, N., Donohue, L., Guo, M., Khavari, P. A.
  ELSEVIER SCIENCE INC.2024: S72
- **Mitochondrial Raf1 Regulates Glutamine Catabolism.** *bioRxiv : the preprint server for biology*
  Shanderson, R. L., Ferguson, I. D., Siprashvili, Z., Ducoli, L., Li, A. M., Miao, W., Srinivasan, S., Velasco, M. G., Li, Y., Ye, J., Khavari, P. A.
  2024
- **Integrative analyses highlight functional regulatory variants associated with neuropsychiatric diseases.** *Nature genetics*
  Guo, M. G., Reynolds, D. L., Ang, C. E., Liu, Y., Zhao, Y., Donohue, L. K., Siprashvili, Z., Yang, X., Yoo, Y., Mondal, S., Hong, A., Kain, J., Meservey, et al
  2023
- **A single nucleotide activity map of skin disease variants and transcription factors that modulate them**
  Porter, D., Reynolds, D. L., Meyers, R., Miao, W., Hong, A. W., Yang, X., Ducoli, L., Mondal, S., Siprashvili, Z., Srinivasan, S., Khavari, P. A.
  ELSEVIER SCIENCE INC.2023: S148
- **Functional characterization of human genomic variation linked to polygenic diseases.** *Trends in genetics : TIG*
  Fabo, T., Khavari, P.

2023

- **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
- **A cis-regulatory lexicon of DNA motif combinations mediating cell-type-specific gene regulation.** *Cell genomics*
  Donohue, L. K., Guo, M. G., Zhao, Y., Jung, N., Bussat, R. T., Kim, D. S., Neela, P. H., Kellman, L. N., Garcia, O. S., Meyers, R. M., Altman, R. B., Khavari, P. A.
  2022; 2 (11)
- **PROBER: overcoming the high noise of DNA-protein interactions studies** *NATURE METHODS*
  Mondal, S., Khavari, P.
  2022; 19 (9): 1044
- **Glucose controls protein-protein interactions and epidermal differentiation**
  Lopez-Pajares, V., Bhaduri, A., Zhao, Y., Gowrishankar, G., Donohue, L., Guo, M., Guerrero, A., Ji, A., Garcia, O., Gambir, S., Khavari, P.
  ELSEVIER SCIENCE INC.2022: S71
- **Spatially resolved clonal copy number alterations in benign and malignant tissue.** *Nature*
  Erickson, A., He, M., Berglund, E., Marklund, M., Mirzazadeh, R., Schultz, N., Kvastad, L., Andersson, A., Bergenstrahle, L., Bergenstrahle, J., Larsson, L., Alonso Galicia, L., Shamikh, et al
  2022; 608 (7922): 360-367
- **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
- **An essential role for CRL complex signaling in epidermal differentiation**
  Winge, M. C., Reynolds, D. L., Ducoli, L., Meyers, R. M., Khavari, P.
  ELSEVIER SCIENCE INC.2022: S123
- **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
- **The spatial landscape of clonal somatic mutations in benign and malignant tissue**
  Erickson, A., Berglund, E., He, M., Marklund, M., Mirzazadeh, R., Schultz, N., Kvastad, L., Andersson, A., Bergenstrahle, L., Bergenstrahle, J., Larsson, L., Shamikh, A., Basmaci, et al
  AMER ASSOC CANCER RESEARCH.2022
- **Super-resolved spatial transcriptomics by deep data fusion.** *Nature biotechnology*
  Bergenstrahle, L., He, B., Bergenstrahle, J., Abalo, X., Mirzazadeh, R., Thrane, K., Ji, A. L., Andersson, A., Larsson, L., Stakenborg, N., Boeckxstaens, G., Khavari, P., Zou, et al
  2021
- **The proximal proteome of 17 SARS-CoV-2 proteins links to disrupted antiviral signaling and host translation.** *PLoS pathogens*
  Meyers, J. M., Ramanathan, M., Shanderson, R. L., Beck, A., Donohue, L., Ferguson, I., Guo, M. G., Rao, D. S., Miao, W., Reynolds, D., Yang, X., Zhao, Y., Yang, et al
  2021; 17 (10): e1009412
- **Mutant collagen COL11A1 enhances cancerous invasion.** *Oncogene*
  Lee, C. S., Siprashvili, Z., Mah, A., Bencomo, T., Elcavage, L. E., Che, Y., Shenoy, R. M., Aasi, S. Z., Khavari, P. A.
  2021
- **Integrating single-cell and spatial transcriptomics to elucidate intercellular tissue dynamics.** *Nature reviews. Genetics*
  Longo, S. K., Guo, M. G., Ji, A. L., Khavari, P. A.
  2021

- **SARS-CoV-2 B.1.1.7 and B.1.351 spike variants bind human ACE2 with increased affinity.** *The Lancet. Infectious diseases*
  Ramanathan, M., Ferguson, I. D., Miao, W., Khavari, P. A.
  2021
- **Dissecting intercellular communication in adult human skin with single-cell and spatial transcriptomics**
  Ji, A., Thrane, K., Guo, M., Rubin, A., Kim, D., Hollmig, T., Aasi, S., Lundeberg, J., Khavari, P.
  ELSEVIER SCIENCE INC.2021: S17
- **Metabolomic identification of an essential glucose-IRF6 axis in differentiation**
  Lopez-Pajares, V., Bhaduri, A., Guerrero, A., Zhao, Y., Donohue, L., Guo, M., Gowrishankar, G., Gambhir, S. S., Khavari, P.
  ELSEVIER SCIENCE INC.2021: S24
- **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
- **SARS-CoV-2 B.1.1.7 and B.1.351 Spike variants bind human ACE2 with increased affinity.** *bioRxiv : the preprint server for biology*
  Ramanathan, M., Ferguson, I. D., Miao, W., Khavari, P. A.
  2021
- **SARS-CoV-2 B.1.1.7 and B.1.351 Spike variants bind human ACE2 with increased affinity.** *bioRxiv : the preprint server for biology*
  Ramanathan, M., Ferguson, I. D., Miao, W., Khavari, P. A.
  2021
- **Structural modularity of the XIST ribonucleoprotein complex.** *Nature communications*
  Lu, Z., Guo, J. K., Wei, Y., Dou, D. R., Zarnegar, B., Ma, Q., Li, R., Zhao, Y., Liu, F., Choudhry, H., Khavari, P. A., Chang, H. Y.
  2020; 11 (1): 6163
- **Spen links RNA-mediated endogenous retrovirus silencing and X chromosome inactivation.** *eLife*
  Carter, A. C., Xu, J., Nakamoto, M. Y., Wei, Y., Zarnegar, B. J., Shi, Q., Broughton, J. P., Ransom, R. C., Salhotra, A., Nagaraja, S. D., Li, R., Dou, D. R., Yost, et al
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- **Genome-wide meta-analysis identifies eight new susceptibility loci for cutaneous squamous cell carcinoma.** *Nature communications*
  Sarin, K. Y., Lin, Y. n., Daneshjou, R. n., Ziyatdinov, A. n., Thorleifsson, G. n., Rubin, A. n., Pardo, L. M., Wu, W. n., Khavari, P. A., Uitterlinden, A. n., Nijsten, T. n., Toland, A. E., Olafsson, et al
  2020; 11 (1): 820
- **Multimodal Analysis of Composition and Spatial Architecture in Human Squamous Cell Carcinoma.** *Cell*
  Ji, A. L., Rubin, A. J., Thrane, K. n., Jiang, S. n., Reynolds, D. L., Meyers, R. M., Guo, M. G., George, B. M., Mollbrink, A. n., Bergenstråhle, J. n., Larsson, L. n., Bai, Y. n., Zhu, et al
  2020
- **Genetic and genomic studies of pathogenic EXOSC2 mutations in the newly described disease SHRF implicate the autophagy pathway in disease pathogenesis.** *Human molecular genetics*
  Yang, X., Bayat, V., DiDonato, N., Zhao, Y., Zarnegar, B., Siprashvili, Z., Lopez-Pajares, V., Sun, T., Tao, S., Li, C., Rump, A., Khavari, P., Lu, et al
  2019
- **Ras functional proximity proteomics establishes mTORC2 as new direct ras effector.** *Oncotarget*
  Kovalski, J. R., Shanderson, R. L., Khavari, P. A.
  2019; 10 (50): 5126–35
- **HiChIRP reveals RNA-associated chromosome conformation.** *Nature methods*
  Mumbach, M. R., Granja, J. M., Flynn, R. A., Roake, C. M., Satpathy, A. T., Rubin, A. J., Qi, Y., Jiang, Z., Shams, S., Louie, B. H., Guo, J. K., Gennert, D. G., Corces, et al
  2019
- **Impact of a patient-derived hepatitis C viral RNA genome with a mutated microRNA binding site** *PLOS PATHOGENS*
  Mata, M., Neben, S., Majzoub, K., Carette, J., Ramanathan, M., Khavari, P. A., Sarnow, P.
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- **Characterization of novel MAPK interactor with potential in therapeutic development**
  Jiang, T. E., Che, Y., Seelman, A., Guenin, C., Khavari, P.
  ELSEVIER SCIENCE INC.2019: S69
- **Uncovering causative, noncoding genetic variants in cutaneous diseases**
  Wozniak, G., Shen, Y., Rubin, A., Neela, P., Khavari, P.
  ELSEVIER SCIENCE INC.2019: S68
- **Dissecting intratumoral heterogeneity and microenvironment interactions in SCC through single-cell RNA-sequencing**
  Ji, A., Rubin, A., Reynolds, D., Guo, M., Bhaduri, A., George, B., Hollmig, S., Aasi, S., Khavari, P.
  ELSEVIER SCIENCE INC.2019: S24
- **Small non-coding RNA SNORA12 effects MAPK1 signaling**
  Siprashvili, Z., Shenoy, R. M., Elcavage, L., Khavari, P. A.
  ELSEVIER SCIENCE INC.2019: S21
- **Unraveling keratinocyte gene regulatory networks with single-cell cripsr screening and epigenomic profiling**
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  ELSEVIER SCIENCE INC.2019: S63
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  Ren, L., Ding, S., Song, Y., Li, B., Ramanathan, M., Co, J., Amieva, M. R., Khavari, P. A., Greenberg, H. B.
  2019; 294 (15): 5993–6006
- **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
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  Ramanathan, M., Porter, D. F., Khavari, P. A.
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  Ramanathan, M., Porter, D. F., Khavari, P. A.
  2019; 16 (3): 225–34
- **Methods to study RNA-protein interactions** *NATURE METHODS*
  Ramanathan, M., Porter, D. F., Khavari, P. A.
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- **The Functional Proximal Proteome of Oncogenic Ras Includes mTORC2** *MOLECULAR CELL*
  Kovalski, J. R., Bhaduri, A., Zehnder, A. M., Neela, P. H., Che, Y., Wozniak, G. G., Khavari, P. A.
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- **Profiling of rotavirus 3'UTR-binding proteins reveals the ATP synthase subunit ATP5B as a host factor that supports late-stage virus replication.** *The Journal of biological chemistry*
  Ren, L., Ding, S., Song, Y., Li, B., Ramanathan, M., Co, J., Amieva, M. R., Khavari, P. A., Greenberg, H. B.
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- **Coupled Single-Cell CRISPR Screening and Epigenomic Profiling Reveals Causal Gene Regulatory Networks** *CELL*
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