




## Robert West

Professor of Pathology

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Surgical Pathology**

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Palo Alto, CA 94304

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Phyllis Bettencourt

**Email** [phyllis2@stanford.edu](mailto:phyllis2@stanford.edu)

## Bio

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### CLINICAL FOCUS

- Breast Cancer
- Breast pathology
- Pathology and Laboratory Medicine
- Anatomic and Clinical Pathology

### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

### PROFESSIONAL EDUCATION

- Medical Education: Washington University School Of Medicine (1999) MO
- Fellowship: Stanford University Surgical Pathology Fellowship (2002) CA
- Residency: Stanford University Pathology Residency (2002) CA
- Board Certification: Pathology, American Board of Pathology (2014)
- Board Certification: Anatomic Pathology, American Board of Pathology (2003)
- M.D., Washington University , Medicine (1999)
- Ph.D., Washington University , Immunology (1999)
- B.S., Brown University , Biology (1990)

### LINKS

- West Lab: <https://med.stanford.edu/west.html>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

My laboratory's research examines the molecular events that lead to and sustain tumorigenesis, with a focus on breast cancer. Current research interests include:

- 1) Genomic sequencing of breast cancer evolution.
- 2) Identification of driver mutations in head and neck cancers.
- 3) Genome wide analysis of lower urinary tract pathology.

### CLINICAL TRIALS

- Dabrafenib and Trametinib in Treating Patients With BRAF Mutated Ameloblastoma, Not Recruiting
- Molecular and Cellular Analysis of Breast Cancer, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Elaine Guo, Aditi Khatpe

## Publications

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### PUBLICATIONS

- **Characterizing N-glycan profiles of DCIS progression using tissue imaging MALDI mass spectrometry.**  
Wallace, E. N., Grimsley, G., Strand, S. H., Angelo, R., Colditz, G., Hwang, E., West, R., Marks, J. R., Angel, P. M., Drake, R. R.  
AMER ASSOC CANCER RESEARCH.2022: 8-9
- **Molecular classification and biomarkers of clinical outcome in breast ductal carcinoma in situ: Analysis of TBCRC 038 and RAHBT cohorts.** *Cancer cell*  
Strand, S. H., Rivero-Gutierrez, B., Houlahan, K. E., Seoane, J. A., King, L. M., Risom, T., Simpson, L. A., Vennam, S., Khan, A., Cisneros, L., Hardman, T., Harmon, B., Couch, et al  
2022
- **Interactions in CSF1-driven Tenosynovial Giant Cell Tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
van IJzendoorn, D. G., Matusiak, M., Charville, G. W., Spierenburg, G., Varma, S., Colburg, D. R., van de Sande, M. A., van Langevelde, K., Mohler, D. G., Ganjoo, K. N., Bui, N. Q., Avedian, R. S., Bovee, et al  
2022
- **International Multicenter Study of Clinical Outcomes of Sinonasal Melanoma Shows Survival Benefit for Patients Treated with Immune Checkpoint Inhibitors and Potential Improvements to the Current TNM Staging System** *JOURNAL OF NEUROLOGICAL SURGERY PART B-SKULL BASE*  
Lechner, M., Takahashi, Y., Turri-Zanoni, M., Ferrari, M., Liu, J., Counsell, N., Mattavelli, D., Rampinelli, V., Vermi, W., Lombardi, D., Saade, R., Park, K., Scharfetter, et al  
2022
- **New Ameloblastoma Cell Lines Enable Preclinical Study of Targeted Therapies.** *Journal of dental research*  
Nguyen, J., Saffari, P. S., Pollack, A. S., Vennam, S., Gong, X., West, R. B., Pollack, J. R.  
2022: 220345221100773

- **Mesenchymal tumor cells drive adaptive resistance of Trp53-/- breast tumor cells to inactivated mutant Kras.** *Molecular oncology*  
van Weele, L. J., Djomehri, S. I., Cai, S., Antony, J., Sikandar, S. S., Qian, D., Ho, W. H., West, R., Scheeren, F. A., Clarke, M. F.  
2022
- **The microdissected gene expression landscape of nasopharyngeal cancer reveals vulnerabilities in FGF and noncanonical NF-κB signaling.** *Science advances*  
Tay, J. K., Zhu, C., Shin, J. H., Zhu, S. X., Varma, S., Foley, J. W., Vennam, S., Yip, Y. L., Goh, C. K., Wang, D. Y., Loh, K. S., Tsao, S. W., Le, et al  
2022; 8 (14): eabh2445
- **MITI minimum information guidelines for highly multiplexed tissue images.** *Nature methods*  
Schapiro, D., Yapp, C., Sokolov, A., Reynolds, S. M., Chen, Y., Sudar, D., Xie, Y., Muhlich, J., Arias-Camison, R., Arena, S., Taylor, A. J., Nikolov, M., Tyler, et al  
2022; 19 (3): 262-267
- **Transition to invasive breast cancer is associated with progressive changes in the structure and composition of tumor stroma.** *Cell*  
Risom, T., Glass, D. R., Averbukh, I., Liu, C. C., Baranski, A., Kagel, A., McCaffrey, E. F., Greenwald, N. F., Rivero-Gutiérrez, B., Strand, S. H., Varma, S., Kong, A., Keren, et al  
2022; 185 (2): 299-310.e18
- **DCIS AI-TIL: Ductal Carcinoma In Situ Tumour Infiltrating Lymphocyte Scoring Using Artificial Intelligence**  
Hagos, Y., Sobhani, F., Castillo, S. P., Hall, A. H., AbdulJabbar, K., Salgado, R., Harmon, B., Gallagher, K., Kilgore, M., King, L. M., Marks, J. R., Maley, C., Horlings, et al  
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 164-175
- **Clinical outcomes, Kadish-INSICA staging and therapeutic targeting of somatostatin receptor 2 in olfactory neuroblastoma.** *European journal of cancer (Oxford, England : 1990)*  
Lechner, M., Takahashi, Y., Turri-Zanoni, M., Liu, J., Counsell, N., Hermsen, M., Kaur, R. P., Zhao, T., Ramanathan, M. J., Scharfetter, V. H., Emanuel, O., Helman, S., Varghese, et al  
1800
- **Acinar cell clonal expansion in pancreas homeostasis and carcinogenesis.** *Nature*  
Neuhofer, P., Roake, C. M., Kim, S. J., Lu, R. J., West, R. B., Charville, G. W., Artandi, S. E.  
2021
- **Transcriptome and genome evolution during HER2-amplified breast neoplasia.** *Breast cancer research : BCR*  
Lu, P., Foley, J., Zhu, C., McNamara, K., Sirinukunwattana, K., Vennam, S., Varma, S., Fehri, H., Srivastava, A., Zhu, S., Rittscher, J., Mallick, P., Curtis, et al  
2021; 23 (1): 73
- **A novel oncogene mediated metabolic gene signature predicts breast cancer outcome.**  
Aslan, M., Hsu, E., Marques, F., Bermudez, A., Shen, M., Rice, M. A., Liu, S., West, R., Pitteri, S. J., Gyorffy, B., Stoyanova, T.  
AMER ASSOC CANCER RESEARCH.2021
- **Unmasking the immune microecology of ductal carcinoma in situ with deep learning.** *NPJ breast cancer*  
Narayanan, P. L., Raza, S. E., Hall, A. H., Marks, J. R., King, L., West, R. B., Hernandez, L., Guppy, N., Dowsett, M., Gusterson, B., Maley, C., Hwang, E. S., Yuan, et al  
2021; 7 (1): 19
- **Nodular Fasciitis of the Breast: Clinicopathologic and Molecular Analysis of 12 Cases with Identification of Novel USP6 Fusion Partners**  
Cloutier, J., Kunder, C., Charville, G., Hosfield, E., Sibley, R., West, R., Troxell, M., Allison, K., Bean, G.  
SPRINGER NATURE.2021: 92
- **Nodular Fasciitis of the Breast: Clinicopathologic and Molecular Analysis of 12 Cases with Identification of Novel USP6 Fusion Partners**  
Cloutier, J., Kunder, C., Charville, G., Hosfield, E., Sibley, R., West, R., Troxell, M., Allison, K., Bean, G.  
SPRINGER NATURE.2021: 92
- **Elucidating the biology of high-risk ductal carcinoma in situ (DCIS) through genomics and immunohistochemical profiling of the tumor microenvironment: The DEFENSE study**  
Glencer, A., Harismendy, O., Borowsky, A., Mori, H., Campbell, M., Hirst, G., Stein, J., Evans, M., Ghule, P., West, R., Esserman, L. J.  
AMER ASSOC CANCER RESEARCH.2021

- **The human tumor atlas network (HTAN) breast pre cancer atlas: A multi-omic integrative analysis of ductal carcinoma in situ (DCIS) and correlation with clinical outcomes**  
Hwang, S., Strand, S. H., Rivero, B., King, L., Risom, T., Harmon, B., Couch, F., Gallagher, K., Kilgore, M., Wei, S., DeMichele, A., King, T., McAuliffe, et al  
AMER ASSOC CANCER RESEARCH.2021
- **A multi-scale integrated analysis identifies KRT8 as a pan-cancer early biomarker.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*  
Scott, M. K., Limaye, M., Schaffert, S., West, R., Ozawa, M. G., Chu, P., Nair, V. S., Koong, A. C., Khatri, P.  
2021; 26: 297–308
- **Immune cell topography predicts response to PD-1 blockade in cutaneous T cell lymphoma.** *Nature communications*  
Phillips, D., Matusiak, M., Gutierrez, B. R., Bhate, S. S., Barlow, G. L., Jiang, S., Demeter, J., Smythe, K. S., Pierce, R. H., Fling, S. P., Ramchurren, N., Cheever, M. A., Goltsev, et al  
2021; 12 (1): 6726
- **A multi-scale integrated analysis identifies KRT8 as a pan-cancer early biomarker**  
Scott, M. D., Ozawa, M. G., Chu, P., Limaye, M., Nair, V. S., Schaffert, S., Koong, A. C., West, R., Khatri, P., Altman, R. B., Dunker, A. K., Hunter, L., Ritchie, et al  
WORLD SCIENTIFIC PUBL CO PTE LTD.2021: 297-308
- **Self-Organizing Maps for Cellular In Silico Staining and Cell Substate Classification.** *Frontiers in immunology*  
Yuan, E., Matusiak, M., Sirinukunwattana, K., Varma, S., Kidziński, Ł., West, R.  
2021; 12: 765923
- **Oncogene-mediated metabolic gene signature predicts breast cancer outcome.** *NPJ breast cancer*  
Aslan, M., Hsu, E. C., Garcia-Marques, F. J., Bermudez, A., Liu, S., Shen, M., West, M., Zhang, C. A., Rice, M. A., Brooks, J. D., West, R., Pitteri, S. J., Gyórfy, et al  
2021; 7 (1): 141
- **Somatostatin receptor 2 expression in nasopharyngeal cancer is induced by Epstein Barr virus infection: impact on prognosis, imaging and therapy.** *Nature communications*  
Lechner, M., Schartinger, V. H., Steele, C. D., Nei, W. L., Ooft, M. L., Schreiber, L., Pipinikas, C. P., Chung, G. T., Chan, Y. Y., Wu, F., To, K., Tsang, C. M., Pearce, et al  
2021; 12 (1): 117
- **Mapping the tumor and microenvironmental evolution underlying DCIS progression through multiplexed ion beam imaging.**  
Risom, T., Rivero, B., Liu, C., Baranski, A., Strand, S., Greenwald, N., McCaffrey, E., Varma, S., Keren, L., Srivastava, S., Zhu, C., Vennam, S., Hwang, et al  
AMER ASSOC CANCER RESEARCH.2020
- **HIGH-DIMENSIONAL ANALYSIS OF TUMOR ARCHITECTURE PREDICTS CANCER IMMUNOTHERAPY RESPONSE**  
Schurch, C. M., Phillips, D. J., Matusiak, M., Gutierrez, B., Bhate, S. S., Barlow, G. L., Khodadoust, M. S., West, R., Kim, Y. H., Nolan, G. P.  
BMJ PUBLISHING GROUP.2020: A4–A5
- **Cellular neighborhoods predict pembrolizumab response in cutaneous T cell lymphoma**  
Schurch, C. M., Phillips, D. J., Gutierrez, B., Matusiak, M., Bhate, S. S., Barlow, G. L., Fling, S. P., Ramchurren, N., Pierce, R. H., Cheever, M. A., Khodadoust, M. S., West, R., Kim, et al  
AMER ASSOC CANCER RESEARCH.2020
- **RNA Expression Profiles of Pituitary Adenomas Using Laser Capture Microdissection and Smart-3SEQ**  
Lavezo, J., Zhu, C., Vennam, S., Reveron-Thornton, R., Toland, A., Katznelson, L., Vogel, H., West, R.  
OXFORD UNIV PRESS INC.2020: 713
- **The Human Tumor Atlas Network: Charting Tumor Transitions across Space and Time at Single-Cell Resolution.** *Cell*  
Rozenblatt-Rosen, O., Regev, A., Oberdoerffer, P., Nawy, T., Hupalowska, A., Rood, J. E., Ashenberg, O., Cerami, E., Coffey, R. J., Demir, E., Ding, L., Esplin, E. D., Ford, et al  
2020; 181 (2): 236–49
- **Integrating genomic features for non-invasive early lung cancer detection.** *Nature*

- Chabon, J. J., Hamilton, E. G., Kurtz, D. M., Esfahani, M. S., Moding, E. J., Stehr, H., Schroers-Martin, J., Nabet, B. Y., Chen, B., Chaudhuri, A. A., Liu, C. L., Hui, A. B., Jin, et al  
2020; 580 (7802): 245-251
- **Integrating genomic features for non-invasive early lung cancer detection** *NATURE*  
Chabon, J. J., Hamilton, E. G., Kurtz, D. M., Esfahani, M. S., Moding, E. J., Stehr, H., Schroers-Martin, J., Nabet, B. Y., Chen, B., Chaudhuri, A. A., Liu, C., Hui, A. B., Jin, et al  
2020
  - **Primary mammary angiosarcomas harbor frequent mutations in KDR and PIK3CA and show evidence of distinct pathogenesis.** *Modern pathology : an official journal of the United States and Canadian Academy of Pathology, Inc*  
Beca, F., Krings, G., Chen, Y., Hosfield, E. M., Vohra, P., Sibley, R. K., Troxell, M. L., West, R. B., Allison, K. H., Bean, G. R.  
2020
  - **ERAP2 overexpression is a marker for reduced anti-PD-1 response in nasopharyngeal carcinoma.**  
Tay, J. K., Ma, B. Y., Varma, S., Lim, Y., Tan, C., Lo, K., Sunwoo, J. B., Cullen, K. J., Goh, B., West, R. B.  
AMER ASSOC CANCER RESEARCH.2020: 99
  - **Utility of E-cadherin and p120 Stains in Evaluating Lobular Lesions: Should We Do One Stain or Both?**  
Say, B., Troxell, M., West, R., Bean, G., Allison, K.  
NATURE PUBLISHING GROUP.2020: 250–51
  - **Genomic Profiling of Cystic Hypersecretory Carcinoma In Situ**  
Mooney, K., Allison, K., West, R., Krings, G., Chen, Y., Troxell, M., Lin, C., Bean, G.  
NATURE PUBLISHING GROUP.2020: 217–18
  - **Utility of E-cadherin and p120 Stains in Evaluating Lobular Lesions: Should We Do One Stain or Both?**  
Say, B., Troxell, M., West, R., Bean, G., Allison, K.  
NATURE PUBLISHING GROUP.2020: 250–51
  - **Genomic Profiling of Primary Angiosarcoma of the Breast**  
Beca, F., Krings, G., Chen, Y., Hosfield, E., Vohra, P., Sibley, R., Troxell, M., West, R., Allison, K., Bean, G.  
NATURE PUBLISHING GROUP.2020: 109–10
  - **Genomic Profiling of Cystic Hypersecretory Carcinoma In Situ**  
Mooney, K., Allison, K., West, R., Krings, G., Chen, Y., Troxell, M., Lin, C., Bean, G.  
NATURE PUBLISHING GROUP.2020: 217–18
  - **Genomic Profiling of Primary Angiosarcoma of the Breast**  
Beca, F., Krings, G., Chen, Y., Hosfield, E., Vohra, P., Sibley, R., Troxell, M., West, R., Allison, K., Bean, G.  
NATURE PUBLISHING GROUP.2020: 109–10
  - **A randomized phase II study comparing surgical excision versus NeOadjuvant Radiotherapy followed by delayed surgical excision of Ductal carcinoma In Situ (NORDIS)**  
Wapnir, I., DeMartini, W., Allison, K., Stone, K., Dirbas, F., Marquez, C., Ikeda, D., Pal, S., Tsai, J., Yang, R., West, R., McMillan, A., Telli, et al  
AMER ASSOC CANCER RESEARCH.2020
  - **A human lung tumor microenvironment interactome identifies clinically relevant cell-type cross-talk.** *Genome biology*  
Gentles, A. J., Hui, A. B., Feng, W. n., Azizi, A. n., Nair, R. V., Bouchard, G. n., Knowles, D. A., Yu, A. n., Jeong, Y. n., Bejnood, A. n., Forgó, E. n., Varma, S. n., Xu, et al  
2020; 21 (1): 107
  - **Origins and clonal convergence of gastrointestinal IgE+ B cells in human peanut allergy.** *Science immunology*  
Hoh, R. A., Joshi, S. A., Lee, J. Y., Martin, B. A., Varma, S. n., Kwok, S. n., Nielsen, S. C., Nejad, P. n., Haraguchi, E. n., Dixit, P. S., Shutthanandan, S. V., Roskin, K. M., Zhang, et al  
2020; 5 (45)
  - **Clinical vs genomic risks in breast cancer in 2019: Breast pathologist's appellate review of the controversial results from TAILORx trial.** *The breast journal*  
Wei, C. H., West, R. n., Schmolze, D. n., Apple, S. K.  
2020

- **HER2 Dual In Situ Hybridization: Correlations and Cautions.** *Archives of pathology & laboratory medicine*  
Troxell, M. n., Sibley, R. K., West, R. B., Bean, G. R., Allison, K. H.  
2020
- **Gene Expression Profiling of Head and Neck Tumors Identifies FOXP1 and SOX10 Expression as Useful for Distinguishing Ameloblastoma From Basaloid Salivary Gland Tumors.** *The American journal of surgical pathology*  
Ko, Y. C., Varma, S., Zhu, C. F., Zhu, S. X., Vennam, S., Poh, C. F., Jordan, R. C., Kong, C., Pollack, J. R., West, R. B.  
2019
- **MYB-activated models for testing therapeutic agents in adenoid cystic carcinoma.** *Oral oncology*  
Jiang, Y., Gao, R., Cao, C., Forbes, L., Li, J., Freeberg, S., Fredenburg, K. M., Justice, J. M., Silver, N. L., Wu, L., Varma, S., West, R., Licht, et al  
2019; 98: 147–55
- **MIBI-TOF: A multiplexed imaging platform relates cellular phenotypes and tissue structure.** *Science advances*  
Keren, L., Bosse, M., Thompson, S., Risom, T., Vijayaragavan, K., McCaffrey, E., Marquez, D., Angoshtari, R., Greenwald, N. F., Fienberg, H., Wang, J., Kambham, N., Kirkwood, et al  
2019; 5 (10): eaax5851
- **Gene-expression profiling of single cells from archival tissue with laser-capture microdissection and Smart-3SEQ.** *Genome research*  
Foley, J. W., Zhu, C., Jolivet, P., Zhu, S. X., Lu, P., Meaney, M. J., West, R. B.  
2019
- **Race and risk of subsequent aggressive breast cancer following ductal carcinoma in situ.** *Cancer*  
Liu, Y., West, R., Weber, J. D., Colditz, G. A.  
2019
- **Increased Galectin-1 Expression in Thymic Epithelial Tumors** *CLINICAL LUNG CANCER*  
Riess, J. W., Kong, C. S., West, R. B., Padda, S. K., Neal, J. W., Wakelee, H. A., Le, Q.  
2019; 20 (3): E356–E361
- **YAP-independent mechanotransduction drives breast cancer progression** *NATURE COMMUNICATIONS*  
Lee, J. Y., Chang, J. K., Dominguez, A. A., Lee, H., Nam, S., Chang, J., Varma, S., Qi, L. S., West, R. B., Chaudhuri, O.  
2019; 10
- **The HTN3-MSANTD3 Fusion Gene Defines a Subset of Acinic Cell Carcinoma of the Salivary Gland** *AMERICAN JOURNAL OF SURGICAL PATHOLOGY*  
Andreasen, S., Varma, S., Barasch, N., Thompson, L. R., Miettinen, M., Rooper, L., Stelow, E. B., Agander, T. K., Seethala, R. R., Chiosea, S. I., Homoe, P., Wessel, I., Larsen, et al  
2019; 43 (4): 489–96
- **Systematic Analysis of GATA3 Expression in 530 Primary Mesenchymal Neoplasms**  
Wei, C., Charville, G., Bean, G., Troxell, M., Allison, K., Van de Rijn, M., West, R.  
NATURE PUBLISHING GROUP.2019
- **Systematic Analysis of GATA3 Expression in 530 Primary Mesenchymal Neoplasms**  
Wei, C., Charville, G., Bean, G., Troxell, M., Allison, K., Van de Rijn, M., West, R.  
NATURE PUBLISHING GROUP.2019
- **Most canine ameloblastomas harbor HRAS mutations, providing a novel large-animal model of RAS-driven cancer.** *Oncogenesis*  
Saffari, P. S., Vapniarsky, N., Pollack, A. S., Gong, X., Vennam, S., Pollack, A. J., Verstraete, F. J., West, R. B., Arzi, B., Pollack, J. R.  
2019; 8 (2): 11
- **ERBB2 copy number analysis of invasive breast carcinoma using digital droplet PCR and targeted next-generation sequencing: A focus on 'non-classical' HER2 FISH groups using the 2018 ASCO/CAP HER2 testing guideline**  
Yang, S., Bouhlal, Y., De La Vega, F. M., Ballard, M., West, R. B., Sibley, R. K., Kuo, C. J., Vilborg, A., Allison, K. H.  
AMER ASSOC CANCER RESEARCH.2019
- **Development of a machine learning-based classifier for Oncotype DX (R) category prediction in a population of lymph node positive breast carcinoma patients**  
Beca, F., Yang, S., Gruber, J. G., Barry-Holson, K., West, R., Wen, H. Y., Allison, K. H.

AMER ASSOC CANCER RESEARCH.2019

- **Blood transcriptome and clonal T cell correlates of response and nonresponse to eltrombopag therapy in a cohort of patients with chronic immune thrombocytopenia.** *Haematologica*  
Zhang, H. n., Zhang, B. M., Guo, X. n., Xu, L. n., You, X. n., West, R. B., Bussel, J. B., Zehnder, J. L.  
2019
- **Spatial integration of radiology and pathology images to characterize breast cancer aggressiveness on pre-surgical MRI**  
Rusu, M., Daniel, B., West, R., Angelini, E. D., Landman, B. A.  
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Framework for the co-registration of MRI and Histology Images in Prostate Cancer Patients with Radical Prostatectomy**  
Rusu, M., Kunder, C., Fan, R., Ghanouni, P., West, R., Sonn, G., Brooks, J., Angelini, E. D., Landman, B. A.  
SPIE-INT SOC OPTICAL ENGINEERING.2019
- **Cell cycle progression in confining microenvironments is regulated by a growth-responsive TRPV4-PI3K/Akt-p27Kip1 signaling axis.** *Science advances*  
Nam, S. n., Gupta, V. K., Lee, H. P., Lee, J. Y., Wisdom, K. M., Varma, S. n., Flaum, E. M., Davis, C. n., West, R. B., Chaudhuri, O. n.  
2019; 5 (8): eaaw6171
- **Genomic landscape of ductal carcinoma in situ and association with progression.** *Breast cancer research and treatment*  
Lin, C. Y., Vennam, S. n., Purington, N. n., Lin, E. n., Varma, S. n., Han, S. n., Desa, M. n., Seto, T. n., Wang, N. J., Stehr, H. n., Troxell, M. L., Kurian, A. W., West, et al  
2019
- **Clonal replacement and heterogeneity in breast tumors treated with neoadjuvant HER2-targeted therapy.** *Nature communications*  
Caswell-Jin, J. L., McNamara, K. n., Reiter, J. G., Sun, R. n., Hu, Z. n., Ma, Z. n., Ding, J. n., Suarez, C. J., Tilk, S. n., Raghavendra, A. n., Forte, V. n., Chin, S. F., Bardwell, et al  
2019; 10 (1): 657
- **YAP-independent mechanotransduction drives breast cancer progression.** *Nature communications*  
Lee, J. Y., Chang, J. K., Dominguez, A. A., Lee, H. P., Nam, S. n., Chang, J. n., Varma, S. n., Qi, L. S., West, R. B., Chaudhuri, O. n.  
2019; 10 (1): 1848
- **Publisher Correction: Clonal replacement and heterogeneity in breast tumors treated with neoadjuvant HER2-targeted therapy.** *Nature communications*  
Caswell-Jin, J. L., McNamara, K. n., Reiter, J. G., Sun, R. n., Hu, Z. n., Ma, Z. n., Ding, J. n., Suarez, C. J., Tilk, S. n., Raghavendra, A. n., Forte, V. n., Chin, S. F., Bardwell, et al  
2019; 10 (1): 2433
- **Genomic analysis of benign prostatic hyperplasia implicates cellular re-landscaping in disease pathogenesis.** *JCI insight*  
Middleton, L. W., Shen, Z. n., Varma, S. n., Pollack, A. S., Gong, X. n., Zhu, S. n., Zhu, C. n., Foley, J. W., Vennam, S. n., Sweeney, R. T., Tu, K. n., Biscocho, J. n., Eminaga, et al  
2019; 5
- **Increased Galectin-1 Expression in Thymic Epithelial Tumors.** *Clinical lung cancer*  
Riess, J. W., Kong, C. S., West, R. B., Padda, S. K., Neal, J. W., Wakelee, H. A., Le, Q.  
2018
- **The HTN3-MSANTD3 Fusion Gene Defines a Subset of Acinic Cell Carcinoma of the Salivary Gland.** *The American journal of surgical pathology*  
Andreassen, S., Varma, S., Barasch, N., Thompson, L. D., Miettinen, M., Rooper, L., Stelow, E. B., Agander, T. K., Seethala, R. R., Chiosea, S. I., Homoe, P., Wessel, I., Larsen, et al  
2018
- **Matrix mechanical plasticity regulates cancer cell migration through confining microenvironments.** *Nature communications*  
Wisdom, K. M., Adebawale, K., Chang, J., Lee, J. Y., Nam, S., Desai, R., Rossen, N. S., Rafat, M., West, R. B., Hodgson, L., Chaudhuri, O.  
2018; 9 (1): 4144
- **A Structured Tumor-Immune Microenvironment in Triple Negative Breast Cancer Revealed by Multiplexed Ion Beam Imaging.** *Cell*  
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