Stanford



Robert West

Sabine Kohler, MD, Professor of Pathology

NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

- **Surgical Pathology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Phyllis Bettencourt

  Email phyllis2@stanford.edu

Bio

CLINICAL FOCUS

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

ACADEMIC APPOINTMENTS

- Professor-Univ Med 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: 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

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.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Elaine Guo, Aditi Khatpe, Mohita Mahajan, Shaocheng Wu, Robert van der Linde

Doctoral Dissertation Reader (NonAC)

Cole Allan

Publications

PUBLICATIONS

- **Ensemble learning of foundation models for precision oncology** *Cancer Cell*
  Luo, X., Wang, X., Eweje, F., Zhang, X., Yang, S., Quinton, R., Xiang, J., Li, Y., Ji, Y., Li, Z., Chen, Y., Bergstrom, C., Kim, et al
  2026; 44: 1-16

- **Distinct cell state ecosystems for nodular lymphocyte-predominant Hodgkin lymphoma.** *Nature communications*
  Subramanian, A., Su, S., Flerlage, J., Alig, S., Younes, S., Marks, L. J., Pinnix, C., Vega, F., Steiner, R., Kumar, P., Mocikova, H., Sykorova, A., Prochazka, et al
  2025; 16 (1): 8473

- **VISTA-induced tumor suppression by a four amino acid intracellular motif.** *bioRxiv : the preprint server for biology*
  Zhao, Y., Andoh, T., Charles, F., Reddy, P., Paul, K., Goar, H., Durdana, I., Golder, C., Hardy, A., Juntilla, M. M., Yang, S. R., Lin, C. Y., Sagiv-Barfi, et al
  2025

- **Active Monitoring With or Without Endocrine Therapy for Low-Risk Ductal Carcinoma In Situ: The COMET Randomized Clinical Trial.** *JAMA*
  Hwang, E. S., Hyslop, T., Lynch, T., Ryser, M. D., Weiss, A., Wolf, A., Norris, K., Witten, M., Grimm, L., Schnitt, S., Badve, S., Factor, R., Frank, et al
  2024

- **A developmental biliary lineage program cooperates with Wnt activation to promote cell proliferation in hepatoblastoma.** *Nature communications*
  Wu, P. V., Fish, M., Hazard, F. K., Zhu, C., Vennam, S., Walton, H., Wagh, D., Coller, J., Przybyl, J., Morri, M., Neff, N., West, R. B., Nusse, et al
  2024; 15 (1): 10007

- **Analysis of ductal carcinoma in situ by self-reported race reveals molecular differences related to outcome.** *Breast cancer research : BCR*
  Strand, S. H., Houlahan, K. E., Branch, V., Lynch, T., Rivero-Guitiérrez, B., Harmon, B., Couch, F., Gallagher, K., Kilgore, M., Wei, S., DeMichele, A., King, T., McAuliffe, et al
  2024; 26 (1): 127

- **Impact of high-risk EBV strains on nasopharyngeal carcinoma gene expression.** *Oral oncology*
  Lim, C. Y., Ng, G. W., Goh, C. K., Lee, M. K., Cheong, I., Ooi, E. E., Liu, J., West, R. B., Loh, K. S., Tay, J. K.
  2024; 157: 106941

- **Extracellular Microenvironment Alterations in Ductal Carcinoma In Situ and Invasive Breast Cancer Pathologies by Multiplexed Spatial Proteomics.** *International journal of molecular sciences*
  Hulahan, T. S., Spruill, L., Wallace, E. N., Park, Y., West, R. B., Marks, J. R., Hwang, E. S., Drake, R. R., Angel, P. M.
  2024; 25 (12)

- **Germline-mediated immunoediting sculpts breast cancer subtypes and metastatic proclivity.** *Science (New York, N.Y.)*
  Houlahan, K. E., Khan, A., Greenwald, N. F., Vivas, C. S., West, R. B., Angelo, M., Curtis, C.
  2024; 384 (6699): eadh8697

- **Spatially Segregated Macrophage Populations Predict Distinct Outcomes In Colon Cancer.** *Cancer discovery*
  Matusiak, M., Hickey, J. W., van IJzendoorn, D. G., Lu, G., Kidzinski, L., Zhu, S., Colburg, D. R., Luca, B., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Loh, et al
  2024

- **Critical evaluation of artificial intelligence as a digital twin of pathologists for prostate cancer pathology.** *Scientific reports*
  Eminaga, O., Abbas, M., Kunder, C., Tolkach, Y., Han, R., Brooks, J. D., Nolley, R., Semjonow, A., Boegemann, M., West, R., Long, J., Fan, R. E., Bettendorf, et al
  2024; 14 (1): 5284

- **Single Cell Expression Analysis of Breast Precancers Identifies Alterations in Epithelial Integrity**
  Qin, X., Strand, S., Lee, M., Zhu, C., Vennam, S., Varma, S., King, L., Rosenberger, L. H., Plichta, J. K., Hwang, E., Owzar, K., Marks, J. R., West, et al
  SPRINGER.2024: S112

- **Cost-effective DNA methylation profiling by FML-seq.** *Life science alliance*
  Foley, J. W., Zhu, S. X., West, R. B.
  2023; 6 (12)

- **Cell volume expansion and local contractility drive collective invasion of the basement membrane in breast cancer.** *Nature materials*
  Chang, J., Saraswathibhatla, A., Song, Z., Varma, S., Sanchez, C., Alyafei, N. H., Indana, D., Slyman, R., Srivastava, S., Liu, K., Bassik, M. C., Marinkovich, M. P., Hodgson, et al
  2023

- **Cost-effective DNA methylation profiling by FML-seq.** *bioRxiv : the preprint server for biology*
  Foley, J. W., Zhu, S. X., West, R. B.
  2023

- **Brief Report: High Levels of CD47 Expression in Thymic Epithelial Tumors.** *JTO clinical and research reports*
  Sun, T. Y., Nguyen, B., Chen, S. B., Natkunam, Y., Padda, S., van de Rijn, M., West, R., Neal, J. W., Wakelee, H., Riess, J. W.
  2023; 4 (4): 100498

- **A spatial map of human macrophage niches reveals context-dependent macrophage functions in colon and breast cancer.** *Research square*
  Matusiak, M., Hickey, J. W., Luca, B., Lu, G., Kidziński, L., Zhu, S., Colburg, D. R., Phillips, D. J., Brubaker, S. W., Charville, G. W., Shen, J., Nolan, G. P., Newman, et al
  2023

- **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., Schartinger, 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
  edited by Kakileti, S. T., Gabrani, M., Manjunath, G., Rosen-Zvi, M., Braman, N., Schwartz, R. G., Frangi, A. F., Chung, P. C., Weight, C., Jagadish
  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., Schartinger, 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.
  SPRINGERNATURE.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.
  SPRINGERNATURE.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. K. D., Ozawa, M. G., Chu, P., Limaye, M., Nair, V. S., Schaffert, S., Koong, A. C., West, R., Khatri, P.
  edited by Altman, R. B., Dunker, A. K., Hunter, L., Ritchie, M. D., Murray, T., Klein, T. E.
  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., Győrffy, 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. 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. D. 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**
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