



Sharon Pitteri

Associate Professor (Research) of Radiology (Diagnostic Sciences Laboratory)

CONTACT INFORMATION

- **Alternate Contact**

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Bio

ACADEMIC APPOINTMENTS

- Associate Professor (Research), Radiology
- Member, Bio-X
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Associate Chair - Laboratory Operations, Department of Radiology, Stanford University, (2023- present)
- Faculty Lead, Stanford University School of Medicine Propel Postdoctoral Scholars Program, (2022- present)
- Director of Research Operations, Department of Radiology, Stanford University, (2020-2023)

HONORS AND AWARDS

- Distinguished Investigator Award, The Academy for Radiology and Biomedical Imaging Research (2021)
- Breast Cancer Research Program Breakthrough Award, Department of Defense - Congressionally Directed Medical Research Programs (2015)
- Innovative Development and Exploratory Award, California Breast Cancer Research Program (2013)
- Research Award, American Society for Mass Spectrometry (2012)
- McCormick Faculty Award, Stanford University School of Medicine (2012)
- Developmental Cancer Research Award, Stanford Cancer Institute (2011, 2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Vice Chair, California Breast Cancer Research Council (2022 - 2023)
- Treasurer, American Society for Mass Spectrometry Board of Directors (2022 - 2024)
- Chair, California Breast Cancer Research Council (2023 - 2024)
- Member, California Breast Cancer Research Council (2019 - present)
- Scientific Advisory Board Member, OHSU Knight Cancer Institute Cancer Early Detection Advanced Research Center (CEDAR) (2019 - present)

PROFESSIONAL EDUCATION

- Postdoctoral Research, Fred Hutchinson Cancer Research Center (2010)
- PhD, Purdue University , Chemistry (2005)
- BA, Carleton College , Chemistry (2001)

LINKS

- Pitteri Lab: <http://med.stanford.edu/pitterilab.html>
- Canary Center at Stanford for Cancer Early Detection: <http://canarycenter.stanford.edu>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Pitteri laboratory is focused on the discovery and validation of proteins that can be used as molecular indicators of risk, diagnosis, progression, and recurrence of cancer. Proteomic technologies, predominantly mass spectrometry, are used to identify proteins in the blood that are differentially regulated and/or post-translationally modified with disease state. Using human plasma samples, tumor tissue, cancer cell lines, and genetically engineered mouse models, the origins of these proteins are being investigated. A major goal of this research is to define novel molecular signatures for breast and ovarian cancers, including particular sub-types of these diseases. This laboratory is also focused on the identification of proteins with expression restricted to the surface of cancer cells which can be used as novel targets for molecular imaging technologies.

Teaching

COURSES

2024-25

- Mass Spectrometry and Proteomics: Opening the Black Box: BIOS 227 (Win)
- Translational Proteomics Methods: MED 212B (Win)

2023-24

- Mass Spectrometry and Proteomics: Opening the Black Box: BIOS 227 (Win)
- TR Technologies B - (Translational Proteomics): MED 212B (Win)

2022-23

- Mass Spectrometry and Proteomics: Opening the Black Box: BIOS 227 (Win)
- Seminar Series for Biomedical Physics: BMP 210, RAD 210 (Aut, Spr)
- TR Technologies B - (Translational Proteomics): MED 212B (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Tim Chai

Orals Chair

Andrea Garofalo

Postdoctoral Faculty Sponsor

Katie Kapp

Doctoral Dissertation Advisor (AC)

Claudia Leonard

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Stanford Cancer Imaging Training Program (SCIT) (Fellowship Program)

Publications

PUBLICATIONS

- **A subcellular map of translational machinery composition and regulation at the single-molecule level.** *Science (New York, N.Y.)*
Zhang, Z., Xu, A., Bai, Y., Chen, Y., Cates, K., Kerr, C., Bermudez, A., Susanto, T. T., Wysong, K., García Marqués, F. J., Nolan, G. P., Pitteri, S., Barna, et al
2025; 387 (6738): eadn2623
- **Intact Glycopeptide Analysis of Human Prostate Tissue Reveals Site-Specific Heterogeneity of Protein Glycosylation in Prostate Cancer.** *Glycobiology*
Kapp, K. L., Garcia-Marques, F., Totten, S. M., Bermudez, A., Tanimoto, C., Brooks, J. D., Pitteri, S. J.
2025
- **Sialylated glycoproteins suppress immune cell killing by binding to Siglec-7 and Siglec-9 in prostate cancer.** *The Journal of clinical investigation*
Wen, R. M., Stark, J. C., Marti, G. E., Fan, Z., Lyu, A., Garcia Marques, F. J., Zhang, X., Riley, N. M., Totten, S. M., Bermudez, A., Nolley, R., Zhao, H., Fong, et al
2024
- **Ubiquitin C-terminal hydrolase L1 is a regulator of tumor growth and metastasis in double-negative prostate cancer.** *American journal of clinical and experimental urology*
Liu, S., Garcia-Marques, F. J., Shen, M., Bermudez, A., Pitteri, S. J., Stoyanova, T.
2024; 12 (5): 306-322
- **Identification of a 5-gene signature panel for the prediction of prostate cancer progression.** *British journal of cancer*
Shen, M., García-Marqués, F., Muruganatham, A., Liu, S., White, J. R., Bermudez, A., Rice, M. A., Thompson, K., Chen, C. L., Hung, C. N., Zhang, Z., Huang, T. H., Liss, et al
2024
- **A Proteomic Analysis of Nasopharyngeal Carcinoma in a Moroccan Subpopulation.** *Cancers*
Reffai, A., Hori, M., Adusumilli, R., Bermudez, A., Bouzoubaa, A., Pitteri, S., Bennani Mechita, M., Mallick, P.
2024; 16 (19)
- **Establishing and characterizing the molecular profiles, cellular features, and clinical utility of a patient-derived xenograft model using benign prostatic tissues.** *Laboratory investigation; a journal of technical methods and pathology*
Polasko, A. L., Zhang, D., Ramraj, A., Chiu, C. L., Garcia-Marques, F. J., Bermudez, A., Kapp, K., Peterson, E., Qiu, Z., Pollack, A. S., Zhao, H., Pollack, J. R., Pitteri, et al
2024: 102129
- **Inhibition of protein translational machinery in triple-negative breast cancer as a promising therapeutic strategy.** *Cell reports. Medicine*
Dheeraj, A., Garcia Marques, F. J., Tailor, D., Bermudez, A., Resendez, A., Pandrala, M., Grau, B., Kumar, P., Haley, C. B., Honkala, A., Kujur, P., Jeffrey, S. S., Pitteri, et al
2024: 101552
- **Exploiting Siglec-7/9 immune checkpoints in prostate cancer**
Wen, R., Marti, G., Stark, J., Marques, F., Bermudez, A., Riley, N., Zhang, X., Zhao, H., Engleman, E., Bertozzi, C., Pitteri, S., Brooks, J.
AMER ASSOC IMMUNOLOGISTS.2024
- **AZGP1 deficiency promotes angiogenesis in prostate cancer.** *Journal of translational medicine*
Wen, R. M., Qiu, Z., Marti, G. E., Peterson, E. E., Marques, F. J., Bermudez, A., Wei, Y., Nolley, R., Lam, N., Polasko, A. L., Chiu, C. L., Zhang, D., Cho, et al
2024; 22 (1): 383

- **Identification and characterization of intact glycopeptides in human urine.** *Scientific reports*
Garcia-Marques, F., Fuller, K., Bermudez, A., Shamsher, N., Zhao, H., Brooks, J. D., Flory, M. R., Pitteri, S. J.
2024; 14 (1): 3716
- **UCHL1 is a potential molecular indicator and therapeutic target for neuroendocrine carcinomas.** *Cell reports. Medicine*
Liu, S., Chai, T., Garcia-Marques, F., Yin, Q., Hsu, E. C., Shen, M., Shaw Toland, A. M., Bermudez, A., Hartono, A. B., Massey, C. F., Lee, C. S., Zheng, L., Baron, et al
2024: 101381
- **Developing and Applying Intact Glycoproteomics Analysis Workflows for Cancer**
Pitteri, S.
OXFORD UNIV PRESS INC.2023: 1068
- **Guanylate-binding protein 1 modulates proteasomal machinery in ovarian cancer.** *iScience*
Tailor, D., Garcia-Marques, F. J., Bermudez, A., Pitteri, S. J., Malhotra, S. V.
2023; 26 (11): 108292
- **A drug-like molecule engages nuclear hormone receptor DAF-12/FXR to regulate mitophagy and extend lifespan.** *Nature aging*
Chamoli, M., Rane, A., Foulger, A., Chinta, S. J., Shahmirzadi, A. A., Kumsta, C., Nambiar, D. K., Hall, D., Holcom, A., Angeli, S., Schmidt, M., Pitteri, S., Hansen, et al
2023
- **The role of GCNT1 mediated O-glycosylation in aggressive prostate cancer.** *Scientific reports*
Hodgson, K., Orozco-Moreno, M., Scott, E., Garnham, R., Livermore, K., Thomas, H., Zhou, Y., He, J., Bermudez, A., Garcia Marques, F. J., Bastian, K., Hysenaj, G., Archer Goode, et al
2023; 13 (1): 17031
- **Measuring the multifaceted roles of mucin-domain glycoproteins in cancer.** *Advances in cancer research*
Riley, N. M., Wen, R. M., Bertozzi, C. R., Brooks, J. D., Pitteri, S. J.
2023; 157: 83-121
- **ST6GAL1-mediated aberrant sialylation promotes prostate cancer progression.** *The Journal of pathology*
Scott, E., Archer Goode, E., Garnham, R., Hodgson, K., Orozco-Moreno, M., Turner, H., Livermore, K., Putri Nangkana, K., Frame, F. M., Bermudez, A., Jose Garcia Marques, F., McClurg, U. L., Wilson, et al
2023
- **Lineage plasticity in SCLC generates non-neuroendocrine cells primed for vasculogenic mimicry.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
Pearsall, S. M., Williamson, S. C., Humphrey, S., Hughes, E., Morgan, D., García Marqués, F. J., Awanis, G., Carroll, R., Burks, L., Shue, Y. T., Bermudez, A., Frese, K. K., Galvin, et al
2023
- **Proteomics analysis of urine and catheter-associated biofilms in spinal cord injury patients.** *American journal of clinical and experimental urology*
Garcia-Marques, F. J., Zakrasek, E., Bermudez, A., Polasko, A. L., Liu, S., Stoyanova, T., Brooks, J. D., Lavelle, J., Pitteri, S. J.
2023; 11 (3): 206-219
- **Siglec-7/9 are novel immune checkpoints for prostate cancer**
Wen, R., Stark, J. C., Marti, G., Garcia-Marques, F., Zhao, H., Nolley, R., Bertozzi, C. R., Pitteri, S. J., Brooks, J. D.
AMER ASSOC IMMUNOLOGISTS.2023
- **Upregulation of GALNT7 in prostate cancer modifies O-glycosylation and promotes tumour growth.** *Oncogene*
Scott, E., Hodgson, K., Calle, B., Turner, H., Cheung, K., Bermudez, A., Marques, F. J., Pye, H., Yo, E. C., Islam, K., Oo, H. Z., McClurg, U. L., Wilson, et al
2023
- **Integrated transcriptome-proteome analyses of human stem cells reveal source-dependent differences in their regenerative signature.** *Stem cell reports*
Ganguly, A., Swaminathan, G., Garcia-Marques, F., Regmi, S., Yarani, R., Primavera, R., Chetty, S., Bermudez, A., Pitteri, S. J., Thakor, A. S.
2022

- **Siglec-7/9-sialic acid interactions inhibit T cell immune response in prostate cancer**
Wen, R. M., Stark, J., Garcia-Marques, F., Nolley, H., Bertozzi, C. R., Pitteri, S. J., Brooks, J. D.
AMER ASSOC CANCER RESEARCH.2022
- **Inhibiting ribosomal proteins with a small molecule: Therapeutic strategy for triple negative breast cancer**
Dheeraj, A., Tailor, D., Resendez, A., Marques, F., Bermudez, A., Pitteri, S., Malhotra, S.
AMER ASSOC CANCER RESEARCH.2022
- **Engineering genetically-encoded synthetic biomarkers for breath-based cancer detection**
Vermesh, O., D'Souza, A., Alam, I., Wardak, M., McLaughlin, T., El Rami, F., Sathirachinda, A., Bell, J., Pitteri, S., James, M., Hori, S., Gross, E., Gambhir, et al
AMER ASSOC CANCER RESEARCH.2022
- **Inhibition of triple negative breast cancer metastasis via Enolase-1 modulation**
Tailor, D., Dheeraj, A., Garcia-Marques, F., Pandrala, M., Bermudez, A., Pitteri, S., Malhotra, S. V.
AMER ASSOC CANCER RESEARCH.2022
- **SU086, an inhibitor of HSP90, impairs glycolysis and represents a treatment strategy for advanced prostate cancer.** *Cell reports. Medicine*
Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F. J., Hsu, E., Liu, S., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Alabi, B. R., Muruganantham, A., Shen, et al
2022; 3 (2): 100502
- **Protein signatures to distinguish aggressive from indolent prostate cancer.** *The Prostate*
Garcia-Marques, F., Liu, S., Totten, S. M., Bermudez, A., Tanimoto, C., Hsu, E. C., Nolley, R., Hembree, A., Stoyanova, T., Brooks, J. D., Pitteri, S. J.
2022
- **Engineered Cell-Derived Vesicles Displaying Targeting Peptide and Functionalized with Nanocarriers for Therapeutic microRNA Delivery to Triple-Negative Breast Cancer in Mice.** *Advanced healthcare materials*
Bose, R. J., Kumar, U. S., Garcia-Marques, F., Zeng, Y., Habte, F., McCarthy, J. R., Pitteri, S., Massoud, T. F., Paulmurugan, R.
2021: e2101387
- **Discovery of indole-modified aptamers for highly specific recognition of protein glycoforms.** *Nature communications*
Yoshikawa, A. M., Rangel, A., Feagin, T., Chun, E. M., Wan, L., Li, A., Moekl, L., Wu, D., Eisenstein, M., Pitteri, S., Soh, H. T.
2021; 12 (1): 7106
- **Multi-omics analysis of spatially distinct stromal cells reveals tumor-induced O-glycosylation of the CDK4-pRB axis in fibroblasts at the invasive tumor edge.** *Cancer research*
Bouchard, G., Garcia-Marques, F. J., Karacosta, L. G., Zhang, W., Bermudez, A., Riley, N. M., Varma, S., Mehl, L. C., Benson, J. A., Shrager, J. B., Bertozzi, C. R., Pitteri, S. J., Giaccia, et al
2021
- **COMBINATION OF MAPK PATHWAY INHIBITORS AND IMMUNE CHECKPOINT BLOCKADE IN BRAF-MUTANT HIGH-GRADE GLIOMA**
Park, J., Grossauer, S., Wang, W., Daynac, M., Pitteri, S., Monje, M., Grant, G., Petritsch, C.
OXFORD UNIV PRESS INC.2021: 172-173
- **Identifying a novel glycolytic inhibitor for treatment of aggressive prostate cancer.**
Stoyanova, T., Rice, M. A., Kumar, V., Tailor, D., Garcia-Marques, F., Bermudez, A., Kanchustambham, V., Shankar, V., Inde, Z., Pandrala, M., Nolley, R., Ghoochani, A., Liu, et al
AMER ASSOC CANCER RESEARCH.2021
- **Trop2 regulates prostate cancer growth and metastasis through distinct molecular mechanisms.**
Stoyanova, T., Hsu, E., Liu, S., Marques, F., Bermudez, A., Aslan, M., Shen, M., Pitteri, S., Brooks, J. D.
AMER ASSOC CANCER RESEARCH.2021
- **Lineage plasticity in small cell lung cancer generates non- neuroendocrine cells primed for vascular mimicry.**
Pearsall, S. M., Williamson, S. C., Marques, F., Humphrey, S., Hughes, E., Cannell, I., Frese, K. K., Galvin, M., Carter, M., Priest, L., Kerr, A., Humphries, M. J., Humphries, et al
AMER ASSOC CANCER RESEARCH.2021
- **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

- **MAPK PATHWAY INHIBITION SENSITIZES TO IMMUNOTHERAPY IN BRAF-MUTANT GLIOMAS**
 Park, J., Barrette, A., Wang, W., Grossauer, S., Grant, G., Lau, K., Pitteri, S., Monje, M., Petritsch, C.
 OXFORD UNIV PRESS INC.2021: 3-4
- **Y box binding protein 1 inhibition as a targeted therapy for ovarian cancer.** *Cell chemical biology*
 Tailor, D., Resendez, A., Garcia-Marques, F. J., Pandrala, M., Going, C. C., Bermudez, A., Kumar, V., Rafat, M., Nambiar, D. K., Honkala, A., Le, Q., Sledge, G. W., Graves, et al
 2021
- **Discovery of CASP8 as a potential biomarker for high-risk prostate cancer through a high-multiplex immunoassay.** *Scientific reports*
 Liu, S. n., Garcia-Marques, F. n., Zhang, C. A., Lee, J. J., Nolley, R. n., Shen, M. n., Hsu, E. C., Aslan, M. n., Koul, K. n., Pitteri, S. J., Brooks, J. D., Stoyanova, T. n.
 2021; 11 (1): 7612
- **MCM2-7 complex is a novel druggable target for neuroendocrine prostate cancer.** *Scientific reports*
 Hsu, E. C., Shen, M., Aslan, M., Liu, S., Kumar, M., Garcia-Marques, F., Nguyen, H. M., Nolley, R., Pitteri, S. J., Corey, E., Brooks, J. D., Stoyanova, T.
 2021; 11 (1): 13305
- **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., Györfy, et al
 2021; 7 (1): 141
- **Enrichment of Intact Glycopeptides Using Strong Anion Exchange and Electrostatic Repulsion Hydrophilic Interaction Chromatography.** *Methods in molecular biology (Clifton, N.J.)*
 Bermudez, A., Pitteri, S. J.
 2021; 2271: 107–20
- **Plectin is a regulator of prostate cancer growth and metastasis.** *Oncogene*
 Buckup, M., Rice, M. A., Hsu, E., Garcia-Marques, F., Liu, S., Aslan, M., Bermudez, A., Huang, J., Pitteri, S. J., Stoyanova, T.
 2020
- **Genomic analysis of Vascular Invasion in Hepatocellular Carcinoma (HCC) Reveals Molecular Drivers and Predictive Biomarkers.** *Hepatology (Baltimore, Md.)*
 Krishnan, M. S., Rajan Kd, A. n., Park, J. n., Arjunan, V. n., Garcia Marques, F. J., Bermudez, A. n., Girvan, O. A., Hoang, N. S., Yin, J. n., Nguyen, M. H., Kothary, N. n., Pitteri, S. n., Felsher, et al
 2020
- **Trop2 is a driver of metastatic prostate cancer with neuroendocrine phenotype via PARP1.** *Proceedings of the National Academy of Sciences of the United States of America*
 Hsu, E. C., Rice, M. A., Bermudez, A. n., Marques, F. J., Aslan, M. n., Liu, S. n., Ghoochani, A. n., Zhang, C. A., Chen, Y. S., Zlitni, A. n., Kumar, S. n., Nolley, R. n., Habte, et al
 2020
- **A Pragmatic Guide to Enrichment Strategies for Mass Spectrometry-Based Glycoproteomics.** *Molecular & cellular proteomics : MCP*
 Riley, N. M., Bertozzi, C. R., Pitteri, S. J.
 2020; 20: 100029
- **Reconstructed Apoptotic Bodies as Targeted "Nano Decoys" to Treat Intracellular Bacterial Infections within Macrophages and Cancer Cells.** *ACS nano*
 Bose, R. J., Tharmalingam, N. n., Garcia Marques, F. J., Sukumar, U. K., Natarajan, A. n., Zeng, Y. n., Robinson, E. n., Bermudez, A. n., Chang, E. n., Habte, F. n., Pitteri, S. J., McCarthy, J. R., Gambhir, et al
 2020
- **Discovery of PTN as a serum-based biomarker of pro-metastatic prostate cancer.** *British journal of cancer*
 Liu, S. n., Shen, M. n., Hsu, E. C., Zhang, C. A., Garcia-Marques, F. n., Nolley, R. n., Koul, K. n., Rice, M. A., Aslan, M. n., Pitteri, S. J., Massie, C. n., George, A. n., Brooks, et al
 2020

- **Novel Aza-podophyllotoxin derivative induces oxidative phosphorylation and cell death via AMPK activation in triple-negative breast cancer.** *British journal of cancer*
 Tailor, D. n., Going, C. C., Resendez, A. n., Kumar, V. n., Nambiar, D. K., Li, Y. n., Dheeraj, A. n., LaGory, E. L., Ghoochani, A. n., Birk, A. M., Stoyanova, T. n., Ye, J. n., Giaccia, et al
 2020
- **Novel glycolysis inhibitor improves the therapeutic regimen for triple negative breast cancer under hyperglycemic condition**
 Tailor, D., Kumar, V., Resendez, A., Going, C., Pitteri, S., Malhotra, S.
 AMER CHEMICAL SOC.2019
- **LARP1 binding to hepatitis C virus particles is correlated with intracellular retention of viral infectivity.** *Virus research*
 Plissonnier, M., Cottarel, J., Piver, E., Kullolli, M., Centonze, F. G., Pitteri, S., Farhan, H., Meunier, J., Zoulim, F., Parent, R.
 2019: 197679
- **Cancer specific caloric restriction using novel small molecule improves the therapeutic regime for triple negative breast cancer**
 Tailor, D., Resendez, A., Kumar, V., Going, C., Pitteri, S., Malhotra, S.
 AMER ASSOC CANCER RESEARCH.2019
- **Proteomic Identification and Time-Course Monitoring of Secreted Proteins During Expansion of Human Mesenchymal Stem/Stromal in Stirred-Tank Bioreactor.** *Frontiers in bioengineering and biotechnology*
 Mizukami, A. n., Thomé, C. H., Ferreira, G. A., Lanfredi, G. P., Covas, D. T., Pitteri, S. J., Swiech, K. n., Faça, V. M.
 2019; 7: 154
- **Honey bee Royalactin unlocks conserved pluripotency pathway in mammals.** *Nature communications*
 Wan, D. C., Morgan, S. L., Spencley, A. L., Mariano, N., Chang, E. Y., Shankar, G., Luo, Y., Li, T. H., Huh, D., Huynh, S. K., Garcia, J. M., Dovey, C. M., Lumb, et al
 2018; 9 (1): 5078
- **Analysis of Released N-Glycans and Glycopeptide Profiling of Prostate Cancer Tissue**
 Totten, S. M., Bermudez, A., Guerrero, A., Yan, J., Jones, A., Brooks, J. D., Pitteri, S. J.
 OXFORD UNIV PRESS INC.2018: 1056
- **Making Glycoproteomics via Mass Spectrometry More Accessible to the greater Scientific Community**
 Driessen, M. D., Going, C. C., Woo, C. M., Pitteri, S. J., Bertozzi, C. R.
 OXFORD UNIV PRESS INC.2018: 1013
- **Tumor Cell-Derived Extracellular Vesicle-Coated Nanocarriers: An Efficient Theranostic Platform for the Cancer-Specific Delivery of Anti-miR-21 and Imaging Agents** *ACS NANO*
 Bose, R. C., Kumar, S., Zeng, Y., Afjei, R., Robinson, E., Lau, K., Bermudez, A., Habte, F., Pitteri, S. J., Sinclair, R., Willmann, J. K., Massoud, T. F., Gambhir, et al
 2018; 12 (11): 10817–32
- **Quantitative Proteomic Profiling Reveals Key Pathways in the Anticancer Action of Methoxychalcone Derivatives in Triple Negative Breast Cancer** *JOURNAL OF PROTEOME RESEARCH*
 Going, C. C., Tailor, D., Kumar, V., Birk, A. M., Pandrala, M., Rice, M. A., Stoyanova, T., Malhotra, S., Pitteri, S. J.
 2018; 17 (10): 3574–85
- **CRISPR-Mediated Reorganization of Chromatin Loop Structure.** *Journal of visualized experiments : JoVE*
 Morgan, S. L., Chang, E. Y., Mariano, N. C., Bermudez, A., Arruda, N. L., Wu, F., Luo, Y., Shankar, G., Huynh, S. K., Huang, C., Pitteri, S. J., Wang, K. C.
 2018
- **Integrative Personal Omics Profiles during Periods of Weight Gain and Loss.** *Cell systems*
 Piening, B. D., Zhou, W. n., Contrepolis, K. n., Röst, H. n., Gu Urban, G. J., Mishra, T. n., Hanson, B. M., Bautista, E. J., Leopold, S. n., Yeh, C. Y., Spakowicz, D. n., Banerjee, I. n., Chen, et al
 2018
- **Multi-lectin Affinity Chromatography and Quantitative Proteomic Analysis Reveal Differential Glycoform Levels between Prostate Cancer and Benign Prostatic Hyperplasia Sera.** *Scientific reports*
 Totten, S. M., Adusumilli, R. n., Kullolli, M. n., Tanimoto, C. n., Brooks, J. D., Mallick, P. n., Pitteri, S. J.
 2018; 8 (1): 6509

- **Mapping and quantification of over 2,000 O-linked glycopeptides in activated human T cells with isotope-targeted glycoproteomics (IsoTaG).** *Molecular & cellular proteomics : MCP*
Woo, C. M., Lund, P. J., Huang, A. C., Davis, M. M., Bertozzi, C. R., Pitteri, S. n.
2018
- **How many human proteoforms are there?** *Nature chemical biology*
Aebersold, R. n., Agar, J. N., Amster, I. J., Baker, M. S., Bertozzi, C. R., Boja, E. S., Costello, C. E., Cravatt, B. F., Fenselau, C. n., Garcia, B. A., Ge, Y. n., Gunawardena, J. n., Hendrickson, et al
2018; 14 (3): 206–14
- **Making Glycoproteomics via Mass Spectrometry More Accessible to the greater Scientific Community**
Driessen, M. D., Going, C. C., Woo, C. M., Pitteri, S. J., Bertozzi, C. R.
OXFORD UNIV PRESS INC.2017: 1212
- **Assessing biological and technological variability in protein levels measured in pre-diagnostic plasma samples of women with breast cancer.** *Biomarker research*
Yeh, C. Y., Adusumilli, R., Kullolli, M., Mallick, P., John, E. M., Pitteri, S. J.
2017; 5: 30
- **Characterization of Glycoproteins by Top Down UVPD Analysis**
Going, C., Huguet, R., Ferrer, D., Zabrouskov, V., Huhmer, A. R., Pitteri, S.
AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC.2017: S43
- **Parallel Comparison of N-Linked Glycopeptide Enrichment Techniques Reveals Extensive Glycoproteomic Analysis of Plasma Enabled by SAX-ERLIC.** *Journal of proteome research*
Totten, S. M., Feasley, C. L., Bermudez, A., Pitteri, S. J.
2017; 16 (3): 1249-1260
- **Development of IsoTaG, a Chemical Glycoproteomics Technique for Profiling Intact N- and O-Glycopeptides from Whole Cell Proteomes.** *Journal of proteome research*
Woo, C. M., Felix, A., Byrd, W. E., Zuegel, D. K., Ishihara, M., Azadi, P., Iavarone, A. T., Pitteri, S. J., Bertozzi, C. R.
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