



## Sharon Pitteri

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

### CONTACT INFORMATION

- **Alternate Contact**

Rhea Scott - Administrative Associate

**Email** rheascott@stanford.edu

**Tel** 650-721-3306

### Bio

---

#### ACADEMIC APPOINTMENTS

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

#### ADMINISTRATIVE APPOINTMENTS

- Division Chief, Diagnostic Sciences Laboratory, Department of Radiology, Stanford University, (2024- present)
- 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

- Chair, California Breast Cancer Research Council (2023 - 2024)
- Treasurer, American Society for Mass Spectrometry Board of Directors (2022 - 2024)
- Vice Chair, California Breast Cancer Research Council (2022 - 2023)
- Member, NIH Study Section - Enabling Bioanalytical and Imaging Technologies (EBIT) (2021 - 2025)

- 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**

- **The olfactory receptor OR51E2 regulates prostate cancer aggressiveness and modulates STAT3 in prostate cancer cells and in xenograft tumors.** *BMC cancer*  
Thomsen, M. T., Busk, M., Zhang, D., Chiu, C. L., Zhao, H., Garcia-Marques, F. J., Bermudez, A., Pitteri, S., Borre, M., Brooks, J. D., Nyengaard, J. R.  
2025; 25 (1): 535
- **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., Shamsheer, N., Zhao, H., Brooks, J. D., Flory, M. R., Pitteri, S. J.  
2024; 14 (1): 3716
- **UCL1 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.  
2017
- **Multi-Lectin Affinity Chromatography for Separation, Identification, and Quantitation of Intact Protein Glycoforms in Complex Biological Mixtures.** *Methods in molecular biology (Clifton, N.J.)*  
Totten, S. M., Kullolli, M., Pitteri, S. J.  
2017; 1550: 99-113
- **Vitamin D supplementation decreases serum 27-hydroxycholesterol in a pilot breast cancer trial.** *Breast cancer research and treatment*  
Going, C. C., Alexandrova, L. n., Lau, K. n., Yeh, C. Y., Feldman, D. n., Pitteri, S. J.  
2017
- **The Exosome Total Isolation Chip.** *ACS nano*  
Liu, F. n., Vermesh, O. n., Mani, V. n., Ge, T. J., Madsen, S. J., Sabour, A. n., Hsu, E. C., Gowrishankar, G. n., Kanada, M. n., Jokerst, J. V., Sierra, R. G., Chang, E. n., Lau, et al  
2017
- **Manipulation of nuclear architecture through CRISPR-mediated chromosomal looping.** *Nature communications*  
Morgan, S. L., Mariano, N. C., Bermudez, A. n., Arruda, N. L., Wu, F. n., Luo, Y. n., Shankar, G. n., Jia, L. n., Chen, H. n., Hu, J. F., Hoffman, A. R., Huang, C. C., Pitteri, et al  
2017; 8: 15993



- **Activation of Notch1 synergizes with multiple pathways in promoting castration-resistant prostate cancer** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Stoyanova, T., Riedinger, M., Lin, S., Faltermeier, C. M., Smith, B. A., Zhang, K. X., Going, C. C., Goldstein, A. S., Lee, J. K., Drake, J. M., Rice, M. A., Hsu, E., Nowroozizadeh, et al  
2016; 113 (42): E6457-E6466
- **Proteomic Analysis of Epithelial to Mesenchymal Transition (EMT) Reveals Cross-talk between SNAIL and HDAC1 Proteins in Breast Cancer Cells.** *Molecular & cellular proteomics*  
Palma, C. d., Grassi, M. L., Thomé, C. H., Ferreira, G. A., Albuquerque, D., Pinto, M. T., Ferreira Melo, F. U., Kashima, S., Covas, D. T., Pitteri, S. J., Faça, V. M.  
2016; 15 (3): 906-917
- **FIG4 is a hepatitis C virus particle-bound protein implicated in virion morphogenesis and infectivity with cholesteryl ester modulation potential.** *journal of general virology*  
Cottarel, J., Plissonnier, M., Kullolli, M., Pitteri, S., Clément, S., Millarte, V., Si-Ahmed, S., Farhan, H., Zoulim, F., Parent, R.  
2016; 97 (1): 69-81
- **3-D tumor models.** *Materials today*  
Asghar, W., El Assal, R., Shafiee, H., Pitteri, S., Paulmurugan, R., Demirci, U.  
2015; 18 (10): 539-553
- **In-depth quantitative analysis of protein glycoforms in human prostate cancer plasma**  
Totten, S. M., Kullolli, M., Tanimoto, C., Brooks, J. D., Pitteri, S. J.  
AMER ASSOC CANCER RESEARCH.2015
- **Glycoproteomic analysis of breast cancer cell lines for biomarker discovery**  
Arampatzidou, M., Kullolli, M., Pitteri, S. J.  
AMER ASSOC CANCER RESEARCH.2014
- **Intact MicroRNA Analysis Using High Resolution Mass Spectrometry** *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*  
Kullolli, M., Knouf, E., Arampatzidou, M., Tewari, M., Pitteri, S. J.  
2014; 25 (1): 80-87
- **Performance evaluation of affinity ligands for depletion of abundant plasma proteins.** *Journal of chromatography. B, Analytical technologies in the biomedical and life sciences*  
Kullolli, M., Warren, J., Arampatzidou, M., Pitteri, S. J.  
2013; 939: 10-16
- **Autoantibody Signatures Involving Glycolysis and Spliceosome Proteins Precede a Diagnosis of Breast Cancer among Postmenopausal Women** *CANCER RESEARCH*  
Ladd, J. J., Chao, T., Johnson, M. M., Qiu, J., Chin, A., Israel, R., Pitteri, S. J., Mao, J., Wu, M., Amon, L. M., McIntosh, M., Li, C., Prentice, et al  
2013; 73 (5): 1502-1513
- **Evaluation of Known Oncoantibodies, HER2, p53, and Cyclin B1, in Prediagnostic Breast Cancer Sera** *CANCER PREVENTION RESEARCH*  
Lu, H., Ladd, J., Feng, Z., Wu, M., Goodell, V., Pitteri, S. J., Li, C. I., Prentice, R., Hanash, S. M., Disis, M. L.  
2012; 5 (8): 1036-1043
- **Quantitative Proteomic Profiling Identifies Protein Correlates to EGFR Kinase Inhibition** *MOLECULAR CANCER THERAPEUTICS*  
Kani, K., Faca, V. M., Hughes, L. D., Zhang, W., Fang, Q., Shahbaba, B., Luethy, R., Erde, J., Schmidt, J., Pitteri, S. J., Zhang, Q., Katz, J. E., Gross, et al  
2012; 11 (5): 1071-1081
- **Microparticles From Ovarian Carcinomas Are Shed Into Ascites and Promote Cell Migration** *INTERNATIONAL JOURNAL OF GYNECOLOGICAL CANCER*  
Press, J. Z., Reyes, M., Pitteri, S. J., Pennil, C., Garcia, R., Goff, B. A., Hanash, S. M., Swisher, E. M.  
2012; 22 (4): 546-552
- **Concordant Release of Glycolysis Proteins into the Plasma Preceding a Diagnosis of ER+ Breast Cancer** *CANCER RESEARCH*  
Amon, L. M., Pitteri, S. J., Li, C. I., McIntosh, M., Ladd, J. J., Disis, M., Porter, P., Wong, C. H., Zhang, Q., Lampe, P., Prentice, R. L., Hanash, S. M.  
2012; 72 (8): 1935-1942

- **Increased Plasma Levels of the APC-Interacting Protein MAPRE1, LRG1, and IGFBP2 Preceding a Diagnosis of Colorectal Cancer in Women** *CANCER PREVENTION RESEARCH*  
Ladd, J. J., Busald, T., Johnson, M. M., Zhang, Q., Pitteri, S. J., Wang, H., Brenner, D. E., Lampe, P. D., Kucherlapati, R., Feng, Z., Prentice, R. L., Hanash, S. M.  
2012; 5 (4): 655-664
- **Lung Cancer Signatures in Plasma Based on Proteome Profiling of Mouse Tumor Models** *CANCER CELL*  
Taguchi, A., Politi, K., Pitteri, S. J., Lockwood, W. W., Faca, V. M., Kelly-Spratt, K., Wong, C., Zhang, Q., Chin, A., Park, K., Goodman, G., Gazdar, A. F., Sage, et al  
2011; 20 (3): 289-299
- **Tumor Microenvironment-Derived Proteins Dominate the Plasma Proteome Response during Breast Cancer Induction and Progression** *CANCER RESEARCH*  
Pitteri, S. J., Kelly-Spratt, K. S., Gurley, K. E., Kennedy, J., Buson, T. B., Chin, A., Wang, H., Zhang, Q., Wong, C., Chodosh, L. A., Nelson, P. S., Hanash, S. M., Kemp, et al  
2011; 71 (15): 5090-5100
- **A Proteomics Platform Combining Depletion, Multi-lectin Affinity Chromatography (M-LAC), and Isoelectric Focusing to Study the Breast Cancer Proteome** *ANALYTICAL CHEMISTRY*  
Zeng, Z., Hincapie, M., Pitteri, S. J., Hanash, S., Schakwijk, J., Hogan, J. M., Wang, H., Hancock, W. S.  
2011; 83 (12): 4845-4854
- **Plasma Proteome Profiles Associated with Inflammation, Angiogenesis, and Cancer** *PLOS ONE*  
Kelly-Spratt, K. S., Pitteri, S. J., Gurley, K. E., Liggitt, D., Chin, A., Kennedy, J., Wong, C., Zhang, Q., Buson, T. B., Wang, H., Hanash, S. M., Kemp, C. J.  
2011; 6 (5)
- **Lung cancer bio-signatures in plasma based on the analysis of mouse models**  
Taguchi, A., Politi, K., Pitteri, S. J., Lockwood, W. W., Faca, V. M., Sage, J., Kemp, C. J., Varmus, H. E., Hanash, S. M.  
AMER ASSOC CANCER RESEARCH.2011
- **Confounding Effects of Hormone Replacement Therapy in Protein Biomarker Studies** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*  
Pitteri, S. J., Hanash, S. M.  
2011; 20 (1): 134-139
- **Detection of Elevated Plasma Levels of Epidermal Growth Factor Receptor Before Breast Cancer Diagnosis among Hormone Therapy Users** *CANCER RESEARCH*  
Pitteri, S. J., Amon, L. M., Buson, T. B., Zhang, Y., Johnson, M. M., Chin, A., Kennedy, J., Wong, C., Zhang, Q., Wang, H., Lampe, P. D., Prentice, R. L., McIntosh, et al  
2010; 70 (21): 8598-8606
- **Elafin Is a Biomarker of Graft-Versus-Host Disease of the Skin** *SCIENCE TRANSLATIONAL MEDICINE*  
paczesny, s., Braun, T. M., Levine, J. E., Hogan, J., Crawford, J., Coffing, B., Olsen, S., Choi, S. W., Wang, H., Faca, V., Pitteri, S., Zhang, Q., Chin, et al  
2010; 2 (13)
- **Novel proteins associated with risk for coronary heart disease or stroke among postmenopausal women identified by in-depth plasma proteome profiling.** *Genome medicine*  
Prentice, R. L., paczesny, s., Aragaki, A., Amon, L. M., Chen, L., Pitteri, S. J., McIntosh, M., Wang, P., Buson Busald, T., Hsia, J., Jackson, R. D., Rossouw, J. E., Manson, et al  
2010; 2 (7): 48-?
- **A systems approach to the proteomic identification of novel cancer biomarkers** *DISEASE MARKERS*  
Pitteri, S., Hanash, S.  
2010; 28 (4): 233-239
- **Integrated Proteomic Analysis of Human Cancer Cells and Plasma from Tumor Bearing Mice for Ovarian Cancer Biomarker Discovery** *PLOS ONE*  
Pitteri, S. J., JeBailey, L., Faca, V. M., Thorpe, J. D., Silva, M. A., Ireton, R. C., Horton, M. B., Wang, H., Pruitt, L. C., Zhang, Q., Cheng, K. H., Urban, N., Hanash, et al

2009; 4 (11)

- **Application of serum proteomics to the Women's Health Initiative conjugated equine estrogens trial reveals a multitude of effects relevant to clinical findings.** *Genome medicine*  
Katayama, H., paczesny, s., Prentice, R., Aragaki, A., Faca, V. M., Pitteri, S. J., Zhang, Q., Wang, H., Silva, M., Kennedy, J., Rossouw, J., Jackson, R., Hsia, et al  
2009; 1 (4): 47-?
- **Postmenopausal estrogen and progestin effects on the serum proteome.** *Genome medicine*  
Pitteri, S. J., Hanash, S. M., Aragaki, A., Amon, L. M., Chen, L., Busald Buson, T., paczesny, s., Katayama, H., Wang, H., Johnson, M. M., Zhang, Q., McIntosh, M., Wang, et al  
2009; 1 (12): 121-?
- **Occurrence of Autoantibodies to Annexin I, 14-3-3 Theta and LAMR1 in Prediagnostic Lung Cancer Sera** *JOURNAL OF CLINICAL ONCOLOGY*  
Qiu, J., Choi, G., Li, L., Wang, H., Pitteri, S. J., Pereira-Faca, S. R., Krasnoselsky, A. L., Randolph, T. W., Omenn, G. S., Edelstein, C., Barnett, M. J., Thornquist, M. D., Goodman, et al  
2008; 26 (31): 5060-5066
- **Precursor-ion mass re-estimation improves peptide identification on hybrid instruments** *JOURNAL OF PROTEOME RESEARCH*  
Luethy, R., Kessner, D. E., Katz, J. E., McLean, B., Grothe, R., Kani, K., Faca, V., Pitteri, S., Hanash, S., Agus, D. B., Mallick, P.  
2008; 7 (9): 4031-4039
- **Proteomic Analysis of Ovarian Cancer Cells Reveals Dynamic Processes of Protein Secretion and Shedding of Extra-Cellular Domains** *PLOS ONE*  
Faca, V. M., Ventura, A. P., Fitzgibbon, M. P., Pereira-Faca, S. R., Pitteri, S. J., Green, A. E., Ireton, R. C., Zhang, Q., Wang, H., O'Briant, K. C., Drescher, C. W., Schummer, M., McIntosh, et al  
2008; 3 (6)
- **Isoform analysis of LC-MS/MS data from multidimensional fractionation of the serum proteome** *JOURNAL OF PROTEOME RESEARCH*  
Krasnoselsky, A. L., Faca, V. M., Pitteri, S. J., Zhang, Q., Hanash, S. M.  
2008; 7 (6): 2546-2552
- **A mouse to human search for plasma Proteome changes associated with pancreatic tumor development** *PLOS MEDICINE*  
Faca, V. M., Song, K. S., Wang, H., Zhang, Q., Krasnoselsky, A. L., Newcomb, L. F., Plentz, R. R., Gurumurthy, S., Redston, M. S., Pitteri, S. J., Pereira-Faca, S. R., Ireton, R. C., Katayama, et al  
2008; 5 (6): 953-967
- **Mining the plasma proteome for cancer biomarkers** *NATURE*  
Hanash, S. M., Pitteri, S. J., Faca, V. M.  
2008; 452 (7187): 571-579
- **Plasma proteome profiling of a mouse model of breast cancer identifies a set of up-regulated proteins in common with human breast cancer cells** *JOURNAL OF PROTEOME RESEARCH*  
Pitteri, S. J., Faca, V. M., Kelly-Spratt, K. S., Kasarda, A. E., Wang, H., Zhang, Q., Newcomb, L., Krasnoselsky, A., paczesny, s., Choi, G., Fitzgibbon, M., McIntosh, M. W., Kemp, et al  
2008; 7 (4): 1481-1489
- **A mouse plasma peptide atlas as a resource for disease proteomics** *GENOME BIOLOGY*  
Zhang, Q., Menon, R., Deutsch, E. W., Pitteri, S. J., Faca, V. M., Wang, H., Newcomb, L. F., DePinho, R. A., Bardeesy, N., Dinulescu, D., Hung, K. E., Kucherlapati, R., Jacks, et al  
2008; 9 (6)
- **Proteomic approaches for cancer biomarker discovery in plasma** *EXPERT REVIEW OF PROTEOMICS*  
Pitteri, S. J., Hanash, S. M.  
2007; 4 (5): 589-590
- **Contribution of protein fractionation to depth of analysis of the serum and plasma proteomes** *JOURNAL OF PROTEOME RESEARCH*  
Faca, V., Pitteri, S. J., Newcomb, L., Glukhova, V., Phanstiel, D., Krasnoselsky, A., Zhang, Q., Struthers, J., Wang, H., Eng, J., Fitzgibbon, M., McIntosh, M., Hanash, et al  
2007; 6 (9): 3558-3565

- **Ion/molecule reactions of cation radicals formed from protonated polypeptides via gas-phase ion/ion electron transfer** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Xia, Y., Chrisman, P. A., Pitteri, S. J., Erickson, D. E., McLuckey, S. A.  
2006; 128 (36): 11792-11798
- **Charge-state dependent dissociation of a trypsin/inhibitor complex via ion trap collisional activation** *INTERNATIONAL JOURNAL OF MASS SPECTROMETRY*  
Pitteri, S. J., Chrisman, P. A., Badman, E. R., McLuckey, S. A.  
2006; 253 (3): 147-155
- **Parallel ion parking of protein mixtures** *ANALYTICAL CHEMISTRY*  
Chrisman, P. A., Pitteri, S. J., McLuckey, S. A.  
2006; 78 (1): 310-316
- **Differentiation of aspartic and isoaspartic acids using electron transfer dissociation** *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*  
O'Connor, P. B., Cournoyer, J. J., Pitteri, S. J., Chrisman, P. A., McLuckey, S. A.  
2006; 17 (1): 15-19
- **Recent developments in the ion/ion chemistry of high-mass multiply charged ions** *MASS SPECTROMETRY REVIEWS*  
Pitteri, S. J., McLuckey, S. A.  
2005; 24 (6): 931-958
- **Electron transfer versus proton transfer in gas-phase ion/ion reactions of polyprotonated peptides** *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Gunawardena, H. P., He, M., Chrisman, P. A., Pitteri, S. J., Hogan, J. M., Hodges, B. D., McLuckey, S. A.  
2005; 127 (36): 12627-12639
- **Electron-transfer ion/ion reactions of doubly protonated peptides: Effect of elevated bath gas temperature** *ANALYTICAL CHEMISTRY*  
Pitteri, S. J., Chrisman, P. A., McLuckey, S. A.  
2005; 77 (17): 5662-5669
- **SO<sub>2</sub>- electron transfer ion/ion reactions with disulfide linked polypeptide ions** *JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY*  
Chrisman, P. A., Pitteri, S. J., Hogan, J. M., McLuckey, S. A.  
2005; 16 (7): 1020-1030
- **Parallel ion parking: Improving conversion of parents to first-generation products in electron transfer dissociation** *ANALYTICAL CHEMISTRY*  
Chrisman, P. A., Pitteri, S. J., McLuckey, S. A.  
2005; 77 (10): 3411-3414
- **Electron transfer ion/ion reactions in a three-dimensional quadrupole ion trap: Reactions of doubly and triply protonated peptides with SO<sub>2</sub> center dot-** *ANALYTICAL CHEMISTRY*  
Pitteri, S. J., Chrisman, P. A., Hogan, J. M., McLuckey, S. A.  
2005; 77 (6): 1831-1839
- **Complementary structural information from a tryptic N-linked glycopeptide via electron transfer ion/ion reactions and collision-induced dissociation** *JOURNAL OF PROTEOME RESEARCH*  
Hogan, J. M., Pitteri, S. J., Chrisman, P. A., McLuckey, S. A.  
2005; 4 (2): 628-632
- **Effects of single amino acid substitution on the collision-induced dissociation of intact protein ions: Turkey ovomucoid third domain** *JOURNAL OF PROTEOME RESEARCH*  
Newton, K. A., Pitteri, S. J., Laskowski, M., McLuckey, S. A.  
2004; 3 (5): 1033-1041
- **Affecting proton mobility in activated peptide and whole protein ions via lysine guanidination** *JOURNAL OF PROTEOME RESEARCH*  
Pitteri, S. J., Reid, G. E., McLuckey, S. A.  
2004; 3 (1): 46-54

- **Phosphorylation site identification via ion trap tandem mass spectrometry of whole protein and peptide ions: Bovine alpha-crystallin A chain** *ANALYTICAL CHEMISTRY*  
Hogan, J. M., Pitteri, S. J., McLuckey, S. A.  
2003; 75 (23): 6509-6516
- **A Chemical Ionization Technique for Measurement of Pernitric Acid in the Upper Troposphere** *Geophys Res Lett*  
Slusher DL, Pitteri SJ, Haman BJ, Tanner DJ, Huey LG  
2001; 28 (20): 3875-78
- **Osmium(IV) complexes TpOs(X)Cl<sub>2</sub> and their Os(III) counterparts: oxidizing compounds with an unusual resistance to ligand substitution** *JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS*  
Bennett, B. K., Pitteri, S. J., Pilobello, L., Lovell, S., Kaminsky, W., Mayer, J. M.  
2001: 3489-3497