

# Stanford

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## Sharon Pitteri

Associate Professor (Research) of Radiology (Cancer Early Detection-Canary Center)

### CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### ACADEMIC APPOINTMENTS

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

#### HONORS AND AWARDS

- 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)

#### PROFESSIONAL EDUCATION

- Post Doctoral, 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

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#### 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

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Fernando Garcia Marques

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)

## Publications

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### PUBLICATIONS

- **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
- **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
- **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
- **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*  
Jc Bose, R., Uday 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
- **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., Kullolli, M., Tanimoto, C., Brooks, J. D., Mallick, P., 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.  
2018
- **How many human proteoforms are there?** *Nature chemical biology*  
Aebersold, R., Agar, J. N., Amster, I. J., Baker, M. S., Bertozzi, C. R., Boja, E. S., Costello, C. E., Cravatt, B. F., Fenselau, C., Garcia, B. A., Ge, Y., Gunawardena, J., Hendrickson, et al  
2018; 14 (3): 206–14
- **Integrative Personal Omics Profiles during Periods of Weight Gain and Loss.** *Cell systems*  
Piening, B. D., Zhou, W., Contrepois, K., Röst, H., Gu Urban, G. J., Mishra, T., Hanson, B. M., Bautista, E. J., Leopold, S., Yeh, C. Y., Spakowicz, D., Banerjee, I., Chen, et al  
2018

- **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., Lau, K., Yeh, C. Y., Feldman, D., Pitteri, S. J.  
2017
- **The Exosome Total Isolation Chip.** *ACS nano*  
Liu, F., Vermesh, O., Mani, V., Ge, T. J., Madsen, S. J., Sabour, A., Hsu, E. C., Gowrishankar, G., Kanada, M., Jokerst, J. V., Sierra, R. G., Chang, E., Lau, et al  
2017
- **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
- **Manipulation of nuclear architecture through CRISPR-mediated chromosomal looping.** *Nature communications*  
Morgan, S. L., Mariano, N. C., Bermudez, A., Arruda, N. L., Wu, F., Luo, Y., Shankar, G., Jia, L., Chen, H., 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
- **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)
- **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.  
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- **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.  
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- **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.  
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- **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.  
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- **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.  
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- **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

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- **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