Stanford



Stefanie S. Jeffrey, MD

John and Marva Warnock Professor, Emerita

Surgery - General Surgery

Bio

BIO

Stefanie Jeffrey, MD, is the John and Marva Warnock Professor, Emerita and former Chief of Surgical Oncology Research in the Department of Surgery at Stanford University School of Medicine. She received her undergraduate degree in Chemistry and Physics and master's degree in Chemistry from Harvard University. She graduated from medical school at University of California San Francisco (UCSF), where she also completed her surgical residency. Her lab focused on technology development and applications related to liquid biopsy (CTCs, ctDNA, extracellular vesicles), droplet-based microfluidic platforms, and preclinical models for testing new cancer therapies. Dr. Jeffrey retired in September 2022, but still maintains collaborations with faculty in the School of Engineering.

ACADEMIC APPOINTMENTS

- Emeritus Faculty-Med Ctr Line, Surgery - General Surgery
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Chief, Surgical Oncology Research, Stanford University, (2005-2022)
- Program Director, Interdisciplinary Breast Fellowship, Stanford University, (1999-2004)
- Chief, Breast Surgery, Stanford University, (1997-2004)

HONORS AND AWARDS

- John and Marva Warnock Professor, Stanford University (2011)
- NASA Space Act Board Award, National Aeronautics and Space Administration (2006)
- Certificate of Special Congressional Recognition, Congresswoman Anna Eshoo, U.S. House of Representatives, California 14th Congressional District (2004, 2013)
- Stanford Fellow, Stanford University (2002-2004)
- John and Marva Warnock Faculty Scholar in Cancer Research, Stanford University (2001-2011)
- Bessie Legarda Memorial Award, Makati Medical Center, Philippines (2000)
- Elsbach-Richards Faculty Scholar, Stanford University (1999-2001)
- Cowell Outstanding Faculty Physician Award, Stanford University (1999)
- Selected for inclusion in The Best Doctors in America, Woodward/White, Inc. - Best Doctors, Inc (1998, 2003-16)
- Fellow, American College of Surgeons (1987)
- AOA Honor Medical Society, UCSF (1977)

- Cum Laude in Chemistry and Physics, Harvard University (1974)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Gordon Research Conference: Liquid Biopsy for Cancer (2017 - 2018)
- Member, External Advisory Board, Center of BioModular Multi-Scale Systems, NIH/NIBIB P41 Biomedical Technology Resource Center (2016 - present)
- Member, Scientific Advisory Board, Cancer-ID - EU consortium of 36 institutions from13 countries to evaluate blood-based biomarkers (2015 - present)

PROFESSIONAL EDUCATION

- M.D., UCSF , Medicine (1978)
- M.A., Harvard University , Chemistry (1974)
- A.B., Harvard University , Chemistry and Physics (1974)

COMMUNITY AND INTERNATIONAL WORK

- Microarray analysis of Korean breast cancers, Stanford University

PATENTS

- Jose I. Padovani Blanco, Ali Mohamed Ibrahim, Yasser Hussein Anis, Stefanie S. Jeffrey, Roger T. Howe. "United States Patent 10,385,893 Electropermanent magnet activated microfluidic droplet size modulation", The Board of Trustees of the Leland Stanford Junior University, Aug 20, 2019
- Davis, Ronald W.; Jeffrey, Stefanie S.; Mindrinos, Michael N.; Pease, R. Fabian; Powell, Ashley A.; Talasaz, AmirAli Hajhossein. "United States Patent 9,267,943 Apparatus for Magnetic Separation of Cells", The Board of Trustees of the Leland Stanford Junior University, Feb 23, 2016
- Ronald W. Davis, Stefanie S. Jeffrey, Michael N. Mindrinos, R. Fabian Pease, Ashley Ann Powell, AmirAli Hajhossein Talasaz (alphabetical order). "United States Patent 8,071,395 Methods and Apparatus for Magnetic Separation of Cells", The Board of Trustees of The Leland Stanford Junior University, Dec 6, 2011

LINKS

- S. Jeffrey Lab: https://web.stanford.edu/group/sjeffreylab/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

For the past decade, Dr. Jeffrey's lab has performed molecular profiling of cancer cells with the goal of identifying tumor-specific therapies for the personalized treatment of cancer.

She was a key member of the collaborative Stanford/Norway team that pioneered the use of DNA microarrays to measure global gene expression in solid tumors and that developed the currently accepted classification schema of breast cancer molecular subtypes based on gene expression profiles: including low and high proliferation luminal, ERBB2(HER2)-overexpressing, and basal-like breast cancers (then, focusing attention on triple-negative breast cancers, TNBCs). Her lab then refined RNA amplification techniques and developed expertise in the transcriptional profiling of tiny quantities of tumor tissue or RNA isolated from formalin-fixed paraffin-embedded tumor samples. It also developed a bank of patient-derived TNBCs for preclinical drug testing.

Her research currently involves extracting, profiling, and growing circulating tumor cells (CTCs) from blood and disseminated tumor cells (DTCs) from bone marrow to shed light on different tumor cell populations involved in the metastatic process and to help guide selection of appropriate therapies in individual cancer patients. To facilitate this, Dr. Jeffrey and colleagues from the Schools of Medicine, Engineering, and Genome Technology Center invented the MagSweeper, an automated immunomagnetic separation device that isolates live rare cells with high purity and minimal impact on gene

expression for high dimensional single cell molecular analyses or tumor cell growth in culture. Her group is funded to continue this work through use or development of additional technologies, including both continuous-flow and droplet-based microfluidic devices, for antibody-based or label-free tumor cell capture, characterization, and growth. Tumor types being investigated include those from patients with primary or metastatic breast cancer or patients with colon cancer that has metastasized to the liver. Dr. Jeffrey's group also studies the role of circulating tumor DNA (ctDNA) in evaluating efficacy of surgical resection of metastases from colorectal cancer. Her lab collaborates closely with Prof Amy Herr's group at UC Berkeley Bioengineering to determine protein signaling pathway activity in single tumor cells.

Dr. Jeffrey's lab is most recently funded to expand their studies on real-time capture and characterization of CTCs and other rare or associated cells, and their experience with patient-derived tumor models, toward pre-clinical development of potential new diagnostics or therapies for treating cancer, including prediction of hormone responsiveness (with Prof George Sledge), exosome-targeting (with Prof AC Matin), and use of metastases-inhibiting antibodies (with Prof Shoshana Levy).

In the past, Dr. Jeffrey worked with Dr. Robert Mah at NASA Ames Research Center to study multiplex in-vivo physiologic attributes of breast tumors in real-time using a multisensor NASA Smart Probe that she co-developed with Dr. Mah.

CLINICAL TRIALS

- Molecular Analysis of Breast Cancer, Not Recruiting
- Overcoming Obstacles to Clinical Trials Enrollment Through a Navigator Program, Not Recruiting

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)

Publications

PUBLICATIONS

- **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
- **Rapid genetic screening with high quality factor metasurfaces.** *Nature communications*
  Hu, J., Safir, F., Chang, K., Dagli, S., Balch, H. B., Abendroth, J. M., Dixon, J., Moradifar, P., Dolia, V., Sahoo, M. K., Pinsky, B. A., Jeffrey, S. S., Lawrence, et al
  2023; 14 (1): 4486
- **Combining Acoustic Bioprinting with AI-Assisted Raman Spectroscopy for High-Throughput Identification of Bacteria in Blood.** *Nano letters*
  Safir, F., Vu, N., Tadesse, L. F., Firouzi, K., Banaei, N., Jeffrey, S. S., Saleh, A. A., Khuri-Yakub, B. P., Dionne, J. A.
  2023
- **Microfluidic live tracking and transcriptomics of cancer-immune cell doublets link intercellular proximity and gene regulation.** *Communications biology*
  Flores, B. C., Chawla, S., Ma, N., Sanada, C., Kujur, P. K., Yeung, R., Bellon, M. B., Hukari, K., Fowler, B., Lynch, M., Chinen, L. T., Ramalingam, N., Sengupta, et al
  2022; 5 (1): 1231
- **Label-free single-cell drug response determined by fluorescence lifetime imaging microscopy (FLIM) and RNA sequencing**
  Ma, N., Ren, H., Ramalingam, N., King, D., Larijani, B., Jeffrey, S. S.

AMER ASSOC CANCER RESEARCH.2022

- **Rapid genetic screening with high quality factor metasurfaces.** *ArXiv*
  Hu, J., Safir, F., Chang, K., Dagli, S., Balch, H. B., Abendroth, J. M., Dixon, J., Moradifar, P., Dolia, V., Sahoo, M. K., Pinsky, B. A., Jeffrey, S. S., Lawrence, et al
  2021

- **Cell-free circulating tumor DNA profiling in cancer management.** *Trends in molecular medicine*
  Roy, D., Lucci, A., Ignatiadis, M., Jeffrey, S. S.
  2021

- **Interpretable Classification of Bacterial Raman Spectra with Knockoff Wavelets.** *IEEE journal of biomedical and health informatics*
  Chia, C., Sesia, M., Ho, C. S., Jeffrey, S. S., Dionne, J. A., Candes, E., Howe, R. T.
  2021; PP

- **Encapsulated Cell Dynamics in Droplet Microfluidic Devices with Sheath Flow** *MICROMACHINES*
  Beshay, P. E., Ibrahim, A. M., Jeffrey, S. S., Howe, R. T., Anis, Y. H.
  2021; 12 (7)

- **Liquid biopsy enters the clinic - implementation issues and future challenges.** *Nature reviews. Clinical oncology*
  Ignatiadis, M., Sledge, G. W., Jeffrey, S. S.
  2021

- **Targeting the tetraspanin CD81 reduces cancer invasion and metastasis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Vences-Catalán, F., Rajapaksa, R., Kuo, C. C., Miller, C. L., Lee, A., Ramani, V. C., Jeffrey, S. S., Levy, R., Levy, S.
  2021; 118 (24)

- **Guided-Mode-Resonant Dielectric Metasurfaces for Colorimetric Imaging of Material Anisotropy in Fibrous Biological Tissue** *ACS PHOTONICS*
  Poulikakos, L., Lawrence, M., Barton, D. R., Jeffrey, S. S., Dionne, J. A.
  2020; 7 (11): 3216–27

- **Electropermanent magnet-driven droplet size modulation for two-phase ferromicrofluidics** *MICROFLUIDICS AND NANOFLUIDICS*
  Padovani, J., Ibrahim, A. M., Jeffrey, S. S., Anis, Y. H., Howe, R. T.
  2020; 24 (12)

- **Toward rapid infectious disease diagnosis with advances in surface-enhanced Raman spectroscopy.** *The Journal of chemical physics*
  Tadesse, L. F., Safir, F., Ho, C., Hasbach, X., Khuri-Yakub, B. P., Jeffrey, S. S., Saleh, A. A., Dionne, J.
  2020; 152 (24): 240902

- **Tumor shedding and metastatic progression after tumor excision in patient-derived orthotopic xenograft models of triple-negative breast cancer.** *Clinical & experimental metastasis*
  Razmara, A. M., Sollier, E., Kisirkoi, G. N., Baker, S. W., Bellon, M. B., McMillan, A., Lemaire, C. A., Ramani, V. C., Jeffrey, S. S., Casey, K. M.
  2020

- **Plasmonic and Electrostatic Interactions Enable Uniformly Enhanced Liquid Bacterial Surface-Enhanced Raman Scattering (SERS).** *Nano letters*
  Tadesse, L. F., Ho, C. S., Chen, D. H., Arami, H. n., Banaei, N. n., Gambhir, S. S., Jeffrey, S. S., Saleh, A. A., Dionne, J. n.
  2020

- **Advances in the Characterization of Circulating Tumor Cells in Metastatic Breast Cancer: Single Cell Analyses and Interactions, and Patient-Derived Models for Drug Testing.** *Advances in experimental medicine and biology*
  Kujur, P. K., Flores, B. C., Ramalingam, N., Chinen, L. T., Jeffrey, S. S.
  2020; 1220: 61–80

- **Extracellular vesicle-mediated in vitro transcribed mRNA delivery for treatment of HER2+ breast cancer xenografts in mice by prodrug CB1954 without general toxicity.** *Molecular cancer therapeutics*
  Forterre, A. V., Wang, J. H., Delcayre, A. n., Kim, K. n., Green, C. n., Pegram, M. D., Jeffrey, S. S., Matin, A. C.
  2020

- **Detection of EGFR Mutations in cfDNA and CTCs, and Comparison to Tumor Tissue in Non-Small-Cell-Lung-Cancer (NSCLC) Patients.** *Frontiers in oncology*
  Liu, H. E., Vuppalapaty, M., Wilkerson, C., Renier, C., Chiu, M., Lemaire, C., Che, J., Matsumoto, M., Carroll, J., Crouse, S., Hanft, V. R., Jeffrey, S. S., Di Carlo, et al
  2020; 10: 572895

- **Deciphering cancer clues from blood.** *Science (New York, N.Y.)*
  Ma, N. n., Jeffrey, S. S.
  2020; 367 (6485): 1424–25

- **Neural network-based model of photoresist reflow** *JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B*
  Chia, C., Martis, J., Jeffrey, S. S., Howe, R. T.
  2019; 37 (6)

- **Investigating circulating tumor cells and distant metastases in patient-derived orthotopic xenograft models of triple-negative breast cancer.** *Breast cancer research : BCR*
  Ramani, V. C., Lemaire, C. A., Triboulet, M., Casey, K. M., Heirich, K., Renier, C., Vilches-Moure, J. G., Gupta, R., Razmara, A. M., Zhang, H., Sledge, G. W., Sollier, E., Jeffrey, et al
  2019; 21 (1): 98

- **Anomalous hysteresis and current fluctuations in cyclic voltammograms at microelectrodes due to Ag leaching from Ag/AgCl reference electrodes** *ELECTROCHEMISTRY COMMUNICATIONS*
  Chia, C., Jeffrey, S. S., Howe, R. T.
  2019; 105

- **ALD HfO2 Films for Defining Microelectrodes for Electrochemical Sensing and Other Applications** *ACS APPLIED MATERIALS & INTERFACES*
  Chia, C., Shulaker, M. M., Provine, J., Jeffrey, S. S., Howe, R. T.
  2019; 11 (29): 26082–92

- **Liquid biopsy in pancreatic ductal adenocarcinoma: current status of circulating tumor cells and circulating tumor DNA.** *Molecular oncology*
  Lee, J., Park, S. S., Lee, Y. K., Norton, J. A., Jeffrey, S. S.
  2019

- **Scalable methods for ultra-smooth platinum in nanoscale devices** *MICRO AND NANO ENGINEERING*
  Chia, C., Jeffrey, S. S., Howe, R. T.
  2019; 3: 50–58

- **Liquid biopsy: a perspective for probing blood for cancer** *LAB ON A CHIP*
  Jeffrey, S. S., Toner, M.
  2019; 19 (4): 548–49

- **Gold Nanobipyramids as Second Near Infrared Optical Coherence Tomography Contrast Agents for in Vivo Multiplexing Studies.** *Nano letters*
  Si, P. n., Shevidi, S. n., Yuan, E. n., Yuan, K. n., Lautman, Z. n., Jeffrey, S. S., Sledge, G. W., de la Zerda, A. n.
  2019

- **Rapid identification of pathogenic bacteria using Raman spectroscopy and deep learning.** *Nature communications*
  Ho, C. S., Jean, N. n., Hogan, C. A., Blackmon, L. n., Jeffrey, S. S., Holodniy, M. n., Banaei, N. n., Saleh, A. A., Ermon, S. n., Dionne, J. n.
  2019; 10 (1): 4927

- **Real-Time Detection of Circulating Tumor Cells in Living Animals Using Functionalized Large Gold Nanorods.** *Nano letters*
  Dutta, R. n., Liba, O. n., SoRelle, E. D., Winetraub, Y. n., Ramani, V. C., Jeffrey, S. S., Sledge, G. W., de la Zerda, A. n.
  2019; 19 (4): 2334–42

- **Anti-HER2 scFv-Directed Extracellular Vesicle-Mediated mRNA-Based Gene Delivery Inhibits Growth of HER2-Positive Human Breast Tumor Xenografts by Prodrug Activation** *MOLECULAR CANCER THERAPEUTICS*
  Wang, J., Forterre, A. V., Zhao, J., Frimannsson, D. O., Delcayre, A., Antes, T. J., Efron, B., Jeffrey, S. S., Pegram, M., Matin, A. C.
  2018; 17 (5): 1133–42

- **Future of Liquid Biopsies With Growing Technological and Bioinformatics Studies: Opportunities and Challenges in Discovering Tumor Heterogeneity With Single-Cell Level Analysis** *CANCER JOURNAL*
  Ramalingam, N., Jeffrey, S. S.
  2018; 24 (2): 104–8

- **Fast and Label-Free Isolation of Circulating Tumor Cells from Blood: From a Research Microfluidic Platform to an Automated Fluidic Instrument, VTX-1 Liquid Biopsy System** *SLAS TECHNOLOGY*
  Lemaire, C. A., Liu, S. Z., Wilkerson, C. L., Ramani, V. C., Barzanian, N. A., Huang, K., Che, J., Chiu, M. W., Vuppalapaty, M., Dimmick, A. M., Di Carlo, D., Kochersperger, M. L., Crouse, et al
  2018; 23 (1): 16–29

- **T cell receptor sequencing of early-stage breast cancer tumors identifies altered clonal structure of the T cell repertoire** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Beausang, J. F., Wheeler, A. J., Chan, N. H., Hanft, V. R., Dirbas, F. M., Jeffrey, S. S., Quake, S. R.
  2017; 114 (48): E10409–E10417

- **Workflow optimization of whole genome amplification and targeted panel sequencing for CTC mutation detection** *NPJ GENOMIC MEDICINE*
  Liu, H. E., Triboulet, M., Zia, A., Vuppalapaty, M., Kidess-Sigal, E., Coller, J., Natu, V. S., Shokoohi, V., Che, J., Renier, C., Chan, N. H., Hanft, V. R., Jeffrey, et al
  2017; 2

- **Label-free isolation of prostate circulating tumor cells using Vortex microfluidic technology** *NPJ PRECISION ONCOLOGY*
  Renier, C., Pao, E., Che, J., Liu, H. E., Lemaire, C. A., Matsumoto, M., Triboulet, M., Srivinas, S., Jeffrey, S. S., Rettig, M., Kulkarni, R. P., Di Carlo, D., Sollier-Christen, et al
  2017; 1

- **Profiling protein expression in circulating tumour cells using microfluidic western blotting** *NATURE COMMUNICATIONS*
  Sinkala, E., Sollier-Christen, E., Renier, C., Rosas-Canyelles, E., Che, J., Heirich, K., Duncombe, T. A., Vlassakis, J., Yamauchi, K. A., Huang, H., Jeffrey, S. S., Herr, A. E.
  2017; 8

- **5-Hydroxymethylcytosine signatures in cell-free DNA provide information about tumor types and stages.** *Cell research*
  Song, C. X., Yin, S. n., Ma, L. n., Wheeler, A. n., Chen, Y. n., Zhang, Y. n., Liu, B. n., Xiong, J. n., Zhang, W. n., Hu, J. n., Zhou, Z. n., Dong, B. n., Tian, et al
  2017

- **Enumeration and targeted analysis of KRAS, BRAF and PIK3CA mutations in CTCs captured by a label-free platform: Comparison to ctDNA and tissue in metastatic colorectal cancer** *ONCOTARGET*
  Kidess-Sigal, E., Liu, H. E., Triboulet, M. M., Che, J., Ramani, V. C., Visser, B. C., Poultsides, G. A., Longacre, T. A., Marziali, A., Vysotskaia, V., Wiggin, M., Heirich, K., Hanft, et al
  2016; 7 (51): 85349-85364

- **Label-free enumeration, collection and downstream cytological and cytogenetic analysis of circulating tumor cells** *SCIENTIFIC REPORTS*
  Dhar, M., Pao, E., Renier, C., Go, D. E., Che, J., Montoya, R., Conrad, R., Matsumoto, M., Heirich, K., Triboulet, M., Rao, J., Jeffrey, S. S., Garon, et al
  2016; 6

- **Regression of experimental NIS-expressing breast cancer brain metastases in response to radioiodide/gemcitabine dual therapy** *ONCOTARGET*
  Renier, C., Do, J., Reyna-Neyra, A., Foster, D., De, A., Vogel, H., Jeffrey, S. S., Tse, V., Carrasco, N., Wapnir, I.
  2016; 7 (34): 54811-54824

- **Electropermanent magnet actuation for droplet ferromicrofluidics.** *Technology*
  Padovani, J. I., Jeffrey, S. S., Howe, R. T.
  2016; 4 (2): 110-119

- **Classification of large circulating tumor cells isolated with ultra-high throughput microfluidic Vortex technology** *ONCOTARGET*
  Che, J., Yu, V., Dhar, M., Renier, C., Matsumoto, M., Heirich, K., Garon, E. B., Goldman, J., Rao, J., Sledge, G. W., Pegram, M. D., Sheth, S., Jeffrey, et al
  2016; 7 (11): 12748-12760

- **Circulating tumor cell technologies** *MOLECULAR ONCOLOGY*
  Ferreira, M. M., Romani, V. C., Jeffrey, S. S.
  2016; 10 (3): 374-394

- **Label-Free Enumeration, Collection and Downstream Cytological and Cytogenetic Analysis of Circulating Tumor Cells**
  Rao, J., Dhar, M., Pao, E., Renier, C., Go, D. E., Che, J., Montoya, R., Conrad, R., Matsumoto, M., Heirich, K., Triboulet, M., Jeffrey, S. S., Garon, et al
  NATURE PUBLISHING GROUP.2016: 117A

- **Perspectives on Clinical Applications of CTCs** *CIRCULATING TUMOR CELLS: ADVANCES IN BASIC SCIENCE AND CLINICAL APPLICATIONS*
  Kulkarni, R. P., Jeffrey, S. S.
  edited by Cote, R. J., Datar, R. H.
  2016: 315–23

- **TUMOR HETEROGENEITY AND SINGLE-CELL ANALYSIS OF CTCs** *CIRCULATING TUMOR CELLS: ISOLATION AND ANALYSIS*
  Sigal, E. K., Jeffrey, S. S.
  edited by Fan, Z. H.
  2016; 184: 315–27

- **Circulating Tumor Cells and Circulating Tumor DNA: Challenges and Opportunities on the Path to Clinical Utility** *CLINICAL CANCER RESEARCH*
  Ignatiadis, M., Lee, M., Jeffrey, S. S.
  2015; 21 (21): 4786-4800

- **High efficiency vortex trapping of circulating tumor cells** *BIOMICROFLUIDICS*
  Dhar, M., Wong, J., Karimi, A., Che, J., Renier, C., Matsumoto, M., Triboulet, M., Garon, E. B., Goldman, J. W., Rettig, M. B., Jeffrey, S. S., Kulkarni, R. P., Sollier, et al
  2015; 9 (6)

- **Cancer Core 125 Panel for quantitative expression and mutation profiling**
  Chenchik, A., Makhanov, M., Dolganov, G., Jeffrey, S.
  AMER ASSOC CANCER RESEARCH.2015

- **Label-free concentration of viable breast cancer CTCs for single cell Western blotting**
  Sinkala, E., Sollier, E., Renier, C., Che, J., Jeffrey, S. S., Herr, A. E.
  AMER ASSOC CANCER RESEARCH.2015

- **Label-free isolation of circulating tumor cells for cytomorphological analysis**
  Renier, C., Pao, E., Go, D. E., Che, J., Ra, J., Rao, N., Garon, E., Goldman, J., Kulkarni, R. P., Jeffrey, S. S., Sollier, E., Di Carlo, D.
  AMER ASSOC CANCER RESEARCH.2015

- **Impact of navigation on knowledge and attitudes about clinical trials among chinese patients undergoing treatment for breast and gynecologic cancers.** *Journal of immigrant and minority health*
  Clair McClung, E., Davis, S. W., Jeffrey, S. S., Kuo, M., Lee, M. M., Teng, N. N.
  2015; 17 (3): 976-979

- **HIGD1A Regulates Oxygen Consumption, ROS Production, and AMPK Activity during Glucose Deprivation to Modulate Cell Survival and Tumor Growth** *CELL REPORTS*
  Ameri, K., Jahangiri, A., Rajah, A. M., Tormos, K. V., Nagarajan, R., Pekmezci, M., Vien Nguyen, V., Wheeler, M. L., Murphy, M. P., Sanders, T. A., Jeffrey, S. S., Yeghiazarians, Y., Rinaudo, et al
  2015; 10 (6): 891-899

- **Mutation profiling of tumor DNA from plasma and tumor tissue of colorectal cancer patients with a novel, high-sensitivity multiplexed mutation detection platform** *ONCOTARGET*
  Kidess, E., Heirich, K., Wiggin, M., Vysotskaia, V., Visser, B. C., Marziali, A., Wiedenmann, B., Norton, J. A., Lee, M., Jeffrey, S. S., Poultsides, G. A.
  2015; 6 (4): 2549-2561

- **Molecular profiling of heterogeneous tumor cells**
  Chenchik, A., Deng, D., Bonneau, K., Makhanov, M., Coram, M., Dolganov, G., Jeffrey, S. S.

ELSEVIER SCI LTD.2014: 60

- **Genotype discordance between circulating tumor cells in blood and disseminated tumor cells in bone marrow at single cell level in breast cancer patients**
  Deng, G., Krishnakumar, S., Coram, M. A., Powell, A. A., Zhang, H., Mindrinos, M. N., Telli, M. L., Effenberger, K. E., Herrler, M., Pantel, K., Davis, R. W., Jeffrey, S. S.
  AMER ASSOC CANCER RESEARCH.2014

- **High-Throughput Time-Resolved FRET Reveals Akt/PKB Activation as a Poor Prognostic Marker in Breast Cancer** *CANCER RESEARCH*
  Veeriah, S., Leboucher, P., de Naurois, J., Jethwa, N., Nye, E., Bunting, T., Stone, R., Stamp, G., Calleja, V., Jeffrey, S. S., Parker, P. J., Larijani, B.
  2014; 74 (18): 4983-4995

- **Patient-derived xenografts of triple-negative breast cancer reproduce molecular features of patient tumors and respond to mTOR inhibition.** *Breast cancer research*
  Zhang, H., Cohen, A. L., Krishnakumar, S., Wapnir, I. L., Veeriah, S., Deng, G., Coram, M. A., Piskun, C. M., Longacre, T. A., Herrler, M., Frimannsson, D. O., Telli, M. L., Dirbas, et al
  2014; 16 (2): R36-?

- **Isolation and mutational analysis of circulating tumor cells from lung cancer patients with magnetic sifters and biochips** *LAB ON A CHIP*
  Earhart, C. M., Hughes, C. E., Gaster, R. S., Ooi, C. C., Wilson, R. J., Zhou, L. Y., Humke, E. W., Xu, L., Wong, D. J., Willingham, S. B., Schwartz, E. J., Weissman, I. L., Jeffrey, et al
  2014; 14 (1): 78-88

- **Single cell mutational analysis of PIK3CA in circulating tumor cells and metastases in breast cancer reveals heterogeneity, discordance, and mutation persistence in cultured disseminated tumor cells from bone marrow.** *BMC cancer*
  Deng, G., Krishnakumar, S., Powell, A. A., Zhang, H., Mindrinos, M. N., Telli, M. L., Davis, R. W., Jeffrey, S. S.
  2014; 14: 456-?

- **Circulating tumor cells (CTCs) and circulating DNA to monitor tumor heterogeneity in clinical trials**
  Jeffrey, S.
  ELSEVIER SCI LTD.2013: S5

- **Circulating tumor cells versus tumor-derived cell-free DNA: rivals or partners in cancer care in the era of single-cell analysis?** *GENOME MEDICINE*
  Kidess, E., Jeffrey, S. S.
  2013; 5

- **Colorectal cancer diagnostics: biomarkers, cell-free DNA, circulating tumor cells and defining heterogeneous populations by single-cell analysis.** *Expert review of molecular diagnostics*
  Kin, C., Kidess, E., Poultsides, G. A., Visser, B. C., Jeffrey, S. S.
  2013; 13 (6): 581-599

- **Nuclear Localization of the Mitochondrial Factor HIGD1A during Metabolic Stress** *PLOS ONE*
  Ameri, K., Rajah, A. M., Vien Nguyen, V., Sanders, T. A., Jahangiri, A., DeLay, M., Donne, M., Choi, H. J., Tormos, K. V., Yeghiazarians, Y., Jeffrey, S. S., Rinaudo, P. F., Rowitch, et al
  2013; 8 (4)

- **Circulating tumor cells versus tumor-derived cell-free DNA: rivals or partners in cancer care in the era of single-cell analysis?** *Genome medicine*
  Kidess, E., Jeffrey, S. S.
  2013; 5 (8): 70-?

- **Overcoming obstacles to clinical trials' enrollment: A lay navigator pilot program focused on Chinese women with cancer**
  McClung, E., Davis, S., Kuo, M., Lee, M., Jeffrey, S., Teng, N.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.2012: S26

- **Single Cell Profiling of Circulating Tumor Cells: Transcriptional Heterogeneity and Diversity from Breast Cancer Cell Lines** *PLOS ONE*
  Powell, A. A., Talasaz, A. H., Zhang, H., Coram, M. A., Reddy, A., Deng, G., Telli, M. L., Advani, R. H., Carlson, R. W., Mollick, J. A., Sheth, S., Kurian, A. W., Ford, et al
  2012; 7 (5)

- **Multiplex molecular analysis of CTCs.** *Recent results in cancer research. Fortschritte der Krebsforschung. Progrès dans les recherches sur le cancer*
  Sieuwerts, A. M., Jeffrey, S. S.
  2012; 195: 125-140

- **Breast Cancer Heterogeneity and Treatment Resistance: Clues from Metaplastic Tumors**
  Felding-Habermann, B., O'Sullivan, D. M., Lorger, M., MacDermed, D., Fernandez-Santidrian, A., Steele, J. B., Telli, M. L., Jeffrey, S. S., Murray, S., Torkamani, A., Cunliffe, H., Vaughn, S. V.
  AMER ASSOC CANCER RESEARCH.2011

- **Adipose levels of polybrominated diphenyl ethers and risk of breast cancer** *BREAST CANCER RESEARCH AND TREATMENT*
  Hurley, S., Reynolds, P., Goldberg, D., Nelson, D. O., Jeffrey, S. S., Petreas, M.
  2011; 129 (2): 505-511

- **A pharmacogenomic method for individualized prediction of drug sensitivity** *MOLECULAR SYSTEMS BIOLOGY*
  Cohen, A. L., Soldi, R., Zhang, H., Gustafson, A. M., Wilcox, R., Welm, B. E., Chang, J. T., Johnson, E., Spira, A., Jeffrey, S. S., Bild, A. H.
  2011; 7

- **Distinctive Responsiveness to Stromal Signaling Accompanies Histologic Grade Programming of Cancer Cells** *PLOS ONE*
  Luciani, M. g., Seok, J., Sayeed, A., Champion, S., Goodson, W. H., Jeffrey, S. S., Xiao, W., Mindrinos, M., Davis, R. W., Dairkee, S. H.
  2011; 6 (5)

- **DNA Mutation as a Biomarker for Tracking Circulating Tumor Cells and Disseminated Tumor Cells in Breast Cancer Metastases**
  Deng, G., Powell, A. A., Zhang, H., Krishnakumar, S., Telli, M. L., Herrler, M., Mindrinos, M., Davis, R. W., Jeffrey, S. S.
  AMER ASSOC CANCER RESEARCH.2010

- **Characterization of molecular subtypes of Korean breast cancer: An ethnically and clinically distinct population** *INTERNATIONAL JOURNAL OF ONCOLOGY*
  Han, W., Nicolau, M., Noh, D., Jeffrey, S. S.
  2010; 37 (1): 51-59

- **Stem cells in human breast cancer** *HISTOLOGY AND HISTOPATHOLOGY*
  Oliveira, L. R., Jeffrey, S. S., Ribeiro-Silva, A.
  2010; 25 (3): 371-385

- **Focal amplification and oncogene dependency of GAB2 in breast cancer** *ONCOGENE*
  Bocanegra, M., Bergamaschi, A., Kim, Y. H., Miller, M. A., Rajput, A. B., Kao, J., Langerod, A., Han, W., Noh, D., Jeffrey, S. S., Huntsman, D. G., Borresen-Dale, A., Pollack, et al
  2010; 29 (5): 774-779

- **Circulating tumour cells demonstrate an altered response to hypoxia and an aggressive phenotype** *BRITISH JOURNAL OF CANCER*
  Ameri, K., Luong, R., Zhang, H., Powell, A. A., Montgomery, K. D., Espinosa, I., Bouley, D. M., Harris, A. L., Jeffrey, S. S.
  2010; 102 (3): 561-569

- **A Phenotype-Based Model for Rational Selection of Novel Targeted Therapies in Treating Aggressive Breast Cancer** *32nd Annual San Antonio Breast Cancer Symposium*
  Soldi, R., Gustafson, A., Zhu, H., Wilcox, R., Welm, B., Spira, A., JEFFREY, S., Bild, A. H.
  AMER ASSOC CANCER RESEARCH.2009: 594S–594S

- **Y Quantification of multiple biomarker expression in circulating tumor cells**
  Hsieh, H., Bethel, K., Curry, D., Jeffrey, S., Krivacic, R., Kuhn, P., Lazarus, N., Marrinucci, D., Nieva, J., Schwartz, E., Somlo, G., Wakelee, H., Bruce, et al
  AMER ASSOC CANCER RESEARCH.2009

- **Isolating highly enriched populations of circulating epithelial cells and other rare cells from blood using a magnetic sweeper device** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Talasaz, A. H., Powell, A. A., Huber, D. E., Berbee, J. G., Roh, K., Yu, W., Xiao, W., Davis, M. M., Pease, R. F., Mindrinos, M. N., Jeffrey, S. S., Davis, R. W.
  2009; 106 (10): 3970-3975

- **CAMK1D amplification implicated in epithelial-mesenchymal transition in basal-like breast cancer** *MOLECULAR ONCOLOGY*

Bergamaschi, A., Kim, Y. H., Kwei, K. A., Choi, Y. L., Bocanegra, M., Langerod, A., Han, W., Noh, D., Huntsman, D. G., Jeffrey, S. S., Borresen-Dale, A., Pollack, J. R.
2008; 2 (4): 327-339

- **DNA copy number alterations and expression of relevant genes in triple-negative breast cancer** *GENES CHROMOSOMES & CANCER*
  Han, W., Jung, E., Cho, J., Lee, J. W., Hwang, K., Yang, S., Kang, J. J., Bae, J., Jeon, Y. K., Park, I., Nicolau, M., Jeffrey, S. S., Noh, et al
  2008; 47 (6): 490-499

- **New models and online calculator for predicting non-sentinel lymph node status in sentinel lymph node positive breast cancer patients** *30th Annual San Antonio Breast Cancer Symposium*
  Kohrt, H., Olshen, R., Bermas, H., GOODSON, W., Henry, S., Rouse, R., Bailey, L., Philben, V., Dirbas, F., Dunn, J., Johnson, D., Wapnir, I., Carlson, et al
  SPRINGER.2008: 588–88

- **Basal carcinoma of the breast revisited: an old entity with new interpretations** *JOURNAL OF CLINICAL PATHOLOGY*
  Korsching, E., Jeffrey, S. S., MEINERZ, W., Decker, T., Boecker, W., Buerger, H.
  2008; 61 (5): 553-560

- **Characterizing metastatic cancer stem cells from human breast cancer**
  Liu, H., Qian, D., Lin, J., Lobo, N., Zhang, H., Dalerba, P., Shimono, Y., Diehn, M., Jeffrey, S., Clarke, M.
  AMER ASSOC CANCER RESEARCH.2008

- **Cancer biomarker profiling with microRNAs** *NATURE BIOTECHNOLOGY*
  Jeffrey, S. S.
  2008; 26 (4): 400-401

- **New models and online calculator for predicting non-sentinel lymph node status in sentinel lymph node positive breast cancer patients** *BMC CANCER*
  Kohrt, H. E., Olshen, R. A., Bermas, H. R., Goodson, W. H., Wood, D. J., Henry, S., Rouse, R. V., Bailey, L., Philben, V. J., Dirbas, F. M., Dunn, J. J., Johnson, D. L., Wapnir, et al
  2008; 8

- **Estrogen receptor-negative invasive breast cancer: Imaging features of tumors with and without human epidermal growth factor receptor type 2 overexpression** *RADIOLOGY*
  Wang, Y., Ikeda, D. M., Narasimhan, B., Longacre, T. A., Bleicher, R. J., Pal, S., Jackman, R. J., Jeffrey, S. S.
  2008; 246 (2): 367-375

- **MRI-guided radiofrequency ablation of breast cancer: Preliminary clinical experience** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  van den Bosch, M., Daniel, B., Rieke, V., Butts-Pauly, K., Kermit, E., Jeffrey, S.
  2008; 27 (1): 204-208

- **RNA extraction from ten year old formalin-fixed paraffin-embedded breast cancer samples: a comparison of column purification and magnetic bead-based technologies** *BMC MOLECULAR BIOLOGY*
  Ribeiro-Silva, A., Zhang, H., Jeffrey, S. S.
  2007; 8

- **MagSweeper: an automated system for high efficiency and specificity capture of live circulating tumor cells** *30th Annual San Antonio Breast Cancer Symposium*
  Powell, A. A., Talasaz, A. A., Mindrinos, M., Carlson, R., Pease, F. W., Davis, R. W., Jeffrey, S. S.
  SPRINGER.2007: S24–S24

- **Oxidative stress pathways highlighted in tumor cell immortalization: association with breast cancer outcome** *ONCOGENE*
  Dairkee, S. H., Nicolau, M., Sayeed, A., Champion, S., Ji, Y., Moore, D. H., Yong, B., Meng, Z., Jeffrey, S. S.
  2007; 26 (43): 6269-6279

- **Disease-specific genomic analysis: identifying the signature of pathologic biology** *BIOINFORMATICS*
  Nicolau, M., Tibshirani, R., Borresen-Dale, A., Jeffrey, S. S.
  2007; 23 (8): 957-965

- **Discovery and validation of breast cancer subtypes (vol 8, pg 101, 2007)** *BMC GENOMICS*
  Kapp, A. V., Jeffrey, S. S., Langerod, A., Borresen-Dale, A., Han, W., Noh, D., Bukholm, I. R. K., Nicolau, M., Brown, P. O., Tibshirani, R.

2007; 8

- **Transcriptomic signatures in breast cancer** *MOLECULAR BIOSYSTEMS*
  Fu, J., Jeffrey, S. S.
  2007; 3 (7): 466-472

- **TP53 mutation status and gene expression profiles are powerful prognostic markers of breast cancer** *BREAST CANCER RESEARCH*
  Langerod, A., Zhao, H., Borgan, O., Nesland, J. M., Bukholm, I. R., Ikdahl, T., Karesen, R., Borresen-Dale, A., Jeffrey, S. S.
  2007; 9 (3)

- **Discovery and validation of breast cancer subtypes** *BMC GENOMICS*
  Kapp, A. V., Jeffrey, S. S., Langerod, A., Borresen-Dale, A., Han, W., Noh, D., Bukholm, I. R., Nicolau, M., Brown, P. O., Tibshirani, R.
  2006; 7

- **Radiation-induced effects on gene expression: An in vivo study on breast cancer** *3rd International Conference on Translational Research and Pre-Clinical Strategies in Radiation Oncology*
  Helland, A., Johnsen, H., Froyland, C., Landmark, H. B., Saetersdal, A. B., Holmen, M. M., Gjertsen, T., Nesland, J. M., Ottestad, W., Jeffrey, S. S., Ottestad, L. O., Rodningen, O. K., Sherlock, et al
  ELSEVIER IRELAND LTD.2006: 230–35

- **MRI-guided needle localization of suspicious breast lesions: results of a freehand technique** *EUROPEAN RADIOLOGY*
  van den Bosch, M. A., Daniel, B. L., Pal, S., Nowels, K. W., Birdwell, R. L., Jeffrey, S. S., Ikeda, D. M.
  2006; 16 (8): 1811-1817

- **Predicting non-sentinel lymph node involvement in breast cancer patients.** *42nd Annual Meeting of the American-Society-of-Clinical-Oncology*
  Kohrt, H. E., Olshen, R. A., Goodson, W. H., Rouse, R. V., Bailey, L., Philben, V., Dirbas, F. M., Stockdale, F. E., Carlson, R. W., Jeffrey, S. S.
  AMER SOC CLINICAL ONCOLOGY.2006: 10S–10S

- **Cell trapping in activated micropores for functional analysis.** *Conference proceedings : ... Annual International Conference of the IEEE Engineering in Medicine and Biology Society. IEEE Engineering in Medicine and Biology Society. Conference*
  Talasaz, A. H., Powell, A. A., Stahl, P., Ronaghi, M., Jeffrey, S. S., Mindrinos, M., Davis, R. W.
  2006; 1: 1838-1841

- **Development of a new device for high throughput isolation of live circulating tumor cells.** *29th Annual San Antonio Breast Cancer Symposium*
  Talasaz, A. A., Powell, A. A., Mindrinos, M., Carlson, R. W., Pease, F. W., Davis, R. W., Jeffrey, S. S.
  SPRINGER.2006: S213–S213

- **A streamlined platform for high-content functional proteomics of primary human specimens** *NATURE METHODS*
  Jessani, N., Niessen, S., Wei, B. Q., Nicolau, M., Humphrey, M., Ji, Y. R., Han, W. S., Noh, D. Y., Yates, J. R., Jeffrey, S. S., Cravatt, B. F.
  2005; 2 (9): 691-697

- **MRI features of mucosa-associated lymphoid tissue lymphoma in the breast** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Espinosa, L. A., Daniel, B. L., Jeffrey, S. S., Nowels, K. W., Ikeda, D. M.
  2005; 185 (1): 199-202

- **Adipose levels of dioxins and risk of breast cancer** *CANCER CAUSES & CONTROL*
  Reynolds, P., Hurley, S. E., Petreas, M., Goldberg, D. E., Smith, D., Gilliss, D., Mahoney, M. E., Jeffrey, S. S.
  2005; 16 (5): 525-535

- **Genomics-based prognosis and therapeutic prediction in breast cancer.** *Journal of the National Comprehensive Cancer Network*
  Jeffrey, S. S., Lønning, P. E., Hillner, B. E.
  2005; 3 (3): 291-300

- **Rates of reexcision for breast cancer after magnetic resonance imaging-guided bracket wire localization** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
  Wallace, A. M., Daniel, B. L., Jeffrey, S. S., Birdwell, R. L., Nowels, K. W., Dirbas, F. M., Schraedley-Desmond, P., Ikeda, D. M.
  2005; 200 (4): 527-537

- **Gene expression profiles and the TP53 mutation status are powerful prognostic markers of breast cancer** *3rd International Symposium on the Molecular Biology of Breast Cancer*
  Langerod, A., Zhao, H., Borgan, O., Nesland, J. M., Hernandez-Boussard, T., Bukholm, I. K., Karesen, R., Borresen-Dale, A. L., Jeffrey, S. S.

BIOMED CENTRAL LTD.2005: S52–S52

- **Molecular distinctions among ERBB2-overexpressing breast cancers**
  Jeffrey, S. S.
  BIOMED CENTRAL LTD.2005: S8

- **TP53 mutations among molecular subtypes of HER2-positive tumors** *3rd International Symposium on the Molecular Biology of Breast Cancer*
  Helland, A., Nicolau, M., Ji, Y., Langerod, A., Sommervoll, D. E., Bergamaschi, A., Pollack, J. R., Borresen-Dale, A. L., Jeffrey, S. S.
  BIOMED CENTRAL LTD.2005: S53–S53

- **Immortalization-associated gene signature in breast cancer** *3rd International Symposium on the Molecular Biology of Breast Cancer*
  Dairkee, S. H., Nicolau, M., Champion, S., Ji, Y., Sayeed, A., Meng, Z., Demeter, J., Jeffrey, S. S.
  BIOMED CENTRAL LTD.2005: S34–S34

- **The evolution of accelerated, partial breast irradiation as a potential treatment option for women with newly diagnosed breast cancer considering breast conservation** *CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS*
  Dirbas, F. M., Jeffrey, S. S., Goffinet, D. R.
  2004; 19 (6): 673-705

- **Magnetic resonance imaging of suspicious breast masses seen on one mammographic view.** *breast journal*
  Offodile, R. S., Daniel, B. L., Jeffrey, S. S., Wapnir, I., Dirbas, F. M., Ikeda, D. M.
  2004; 10 (5): 416-422

- **A molecular 'signature' of primary breast cancer cultures; patterns resembling tumor tissue** *BMC GENOMICS*
  Dairkee, S. H., Ji, Y. R., Ben, Y., Moore, D. H., Meng, Z. H., Jeffrey, S. S.
  2004; 5

- **Different gene expression patterns in invasive lobular and ductal carcinomas of the breast** *MOLECULAR BIOLOGY OF THE CELL*
  Zhao, H. J., Langerod, A., Ji, Y., Nowels, K. W., Nesland, J. M., Tibshirani, R., Bukholm, I. K., Karesen, R., Botstein, D., Borresen-Dale, A. L., Jeffrey, S. S.
  2004; 15 (6): 2523-2536

- **Distribution of persistent, lipid-soluble chemicals in breast and abdominal adipose tissues: Lessons learned from a breast cancer study** *CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION*
  Petreas, M., Smith, D., Hurley, S., Jeffrey, S. S., Gilliss, D., Reynolds, P.
  2004; 13 (3): 416-424

- **Central carbon metabolism genes that predict disease-free survival in hormone receptor negative tumors.** *27th Annual San Antonio Breast Cancer Symposium*
  Funari, V. A., Tibshirani, R., Ji, Y., Nicolau, M., Carlson, R. W., Brown, P. O., Noh, D. Y., Jeffrey, S. S.
  SPRINGER.2004: S115–S115

- **Predictors of reexcision findings and recurrence after breast conservation** *44th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
  Smitt, M. C., Nowels, K., Carlson, R. W., Jeffrey, S. S.
  ELSEVIER SCIENCE INC.2003: 979–85

- **The diagnosis and management of pre-invasive breast disease - Promise of new technologies in understanding pre-invasive breast lesions** *BREAST CANCER RESEARCH*
  Jeffrey, S. S., Pollack, J. R.
  2003; 5 (6): 320-328

- **Relationship between systemic therapy, radiotherapy timing, and results of breast conservation.**
  Smitt, M. C., Nowels, K., Jeffrey, S., Carlson, R.
  KLUWER ACADEMIC PUBL.2003: S35–S36

- **Gene expression profiling of breast carcinomas.** *25th San Antonio Breast Cancer Symposium*
  Langerod, A., Zhao, H., Ji, Y., Bukholm, I. R., BROWN, P., Botstein, D., Borresen-Dale, A. L., JEFFREY, S.
  SPRINGER.2002: S101–S101

- **Microarray analysis reveals a major direct role of DNA copy number alteration in the transcriptional program of human breast tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Pollack, J. R., Sorlie, T., Perou, C. M., Rees, C. A., Jeffrey, S. S., Lonning, P. E., Tibshirani, R., Botstein, D., Borresen-Dale, A. L., Brown, P. O.
2002; 99 (20): 12963-12968

- **MR imaging features of infiltrating lobular carcinoma of the breast: Histopathologic correlation** *AMERICAN JOURNAL OF ROENTGENOLOGY*
  Qayyum, A., Birdwell, R. L., Daniel, B. L., Nowels, K. W., Jeffrey, S. S., Agoston, T. A., Herfkens, R. J.
  2002; 178 (5): 1227-1232

- **Expression array technology in the diagnosis and treatment of breast cancer.** *Molecular interventions*
  Jeffrey, S. S., Fero, M. J., Børresen-Dale, A., Botstein, D.
  2002; 2 (2): 101-109

- **Optimization and evaluation of T7 based RNA linear amplification protocols for cDNA microarray analysis** *BMC GENOMICS*
  Zhao, H. J., Hastie, T., Whitfield, M. L., Borresen-Dale, A. L., Jeffrey, S. S.
  2002; 3

- **Gene expression patterns of breast carcinomas distinguish tumor subclasses with clinical implications** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Sorlie, T., Perou, C. M., Tibshirani, R., Aas, T., Geisler, S., Johnsen, H., Hastie, T., Eisen, M. B., van de Rijn, M., Jeffrey, S. S., Thorsen, T., Quist, H., Matese, et al
  2001; 98 (19): 10869-10874

- **Breast cancer: Variables affecting sentinel lymph node visualization at preoperative lymphoscintigraphy** *RADIOLOGY*
  Birdwell, R. L., Smith, K. L., Betts, B. J., Ikeda, D. M., Strauss, H. W., Jeffrey, S. S.
  2001; 220 (1): 47-53

- **Freehand iMRI-guided large-gauge core needle biopsy: A new minimally invasive technique for diagnosis of enhancing breast lesions** *7th Annual Meeting of the International-Society-for-Magnetic-Resonance-in-Medicine (ISMRM)*
  Daniel, B. L., Birdwell, R. L., Butts, K., Nowels, K. W., Ikeda, D. M., Heiss, S. G., Cooper, C. R., Jeffrey, S. S., Dirbas, F. M., Herfkens, R. J.
  JOHN WILEY & SONS INC.2001: 896–902

- **Locally advanced breast cancer: is surgery necessary?** *breast journal*
  Favret, A. M., Carlson, R. W., Goffinet, D. R., Jeffrey, S. S., Dirbas, F. M., Stockdale, F. E.
  2001; 7 (2): 131-137

- **Expedition inspiration consensus 2001** *BREAST CANCER RESEARCH AND TREATMENT*
  Benz, C. C., Hilakivi-Clarke, L., Conzen, S., Dorn, R. V., Fleming, G. F., Grant, K., Greene, G., Hellman, S., Henderson, C., Hoover, R., Hryniuk, W., JEFFREY, S., Lippman, et al
  2001; 70 (3): 213-219

- **Isosulfan blue affects pulse oximetry** *ANESTHESIOLOGY*
  Vokach-Brodsky, L., Jeffrey, S. S., Lemmens, H. J., Brock-Utne, J. G.
  2000; 93 (4): 1002-1003

- **Molecular portraits of human breast tumours** *NATURE*
  Perou, C. M., Sorlie, T., Eisen, M. B., van de Rijn, M., Jeffrey, S. S., Rees, C. A., Pollack, J. R., Ross, D. T., Johnsen, H., Akslen, L. A., Fluge, O., Pergamenschikov, A., Williams, et al
  2000; 406 (6797): 747-752

- **Controversies in sentinel lymph node biopsy for breast cancer** *CANCER BIOTHERAPY AND RADIOPHARMACEUTICALS*
  Jeffrey, S. S., Jones, S. B., Smith, K. L.
  2000; 15 (3): 223-233

- **Systematic variation in gene expression patterns in human cancer cell lines** *NATURE GENETICS*
  Ross, D. T., Scherf, U., Eisen, M. B., Perou, C. M., Rees, C., Spellman, P., Iyer, V., Jeffrey, S. S., van de Rijn, M., Waltham, M., Pergamenschikov, A., Lee, J. C., Lashkari, et al
  2000; 24 (3): 227-235

- **Characterization of breast lesion morphology with delayed 3DSSMT: An adjunct to dynamic breast MRI** *JOURNAL OF MAGNETIC RESONANCE IMAGING*
  Leong, C. S., Daniel, B. L., Herfkens, R. J., Birdwell, R. L., Jeffrey, S. S., Ikeda, D. M., Sawyer-Glover, A. M., Glover, G. H.

2000; 11 (2): 87-96

- **Management of breast cancer after Hodgkin's disease** *39th Annual Meeting of the American-Society-for-Therapeutic-Radiology-and-Oncology*
  Wolden, S. L., Hancock, S. L., Carlson, R. W., Goffinet, D. R., Jeffrey, S. S., Hoppe, R. T.
  AMER SOC CLINICAL ONCOLOGY.2000: 765–72
- **Contrast-enhanced locally advanced breast cancer magnetic resonance: Comparison of sagittal thin slice and 2 maximum intensity projection displays.**
  Minor, M. A., Ikeda, D. M., Daniel, B. L., Birdwell, R. L., Jeffrey, S. S., Herfkens, R. J.
  LIPPINCOTT WILLIAMS & WILKINS.2000: 86A
- **Radiofrequency ablation of breast cancer - First report of an emerging technology** *ARCHIVES OF SURGERY*
  Jeffrey, S. S., Birdwell, R. L., Ikeda, D. M., Daniel, B. L., Nowels, K. W., Dirbas, F. M., Griffey, S. M.
  1999; 134 (10): 1064-1068
- **Genome-wide analysis of DNA copy-number changes using cDNA microarrays** *NATURE GENETICS*
  Pollack, J. R., Perou, C. M., Alizadeh, A. A., Eisen, M. B., Pergamenschikov, A., Williams, C. F., Jeffrey, S. S., Botstein, D., Brown, P. O.
  1999; 23 (1): 41-46
- **Isosulfan blue affects pulse oximetry**
  Vokach-Brodsky, L., JEFFREY, S., Lemmens, H. J., Brock-Utne, J. G.
  LIPPINCOTT WILLIAMS & WILKINS.1999: U465–U465
- **Distinctive gene expression patterns in human mammary epithelial cells and breast cancers** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Perou, C. M., Jeffrey, S. S., van de Rijn, M., Rees, C. A., Eisen, M. B., Ross, D. T., Pergamenschikov, A., Williams, C. F., Zhu, S. X., Lee, J. C., Lashkari, D., Shalon, D., Brown, et al
  1999; 96 (16): 9212-9217
- **Non-visualization of sentinel lymph node in patients with breast cancer.**
  Krausz, Y., Jeffrey, S. S., Ikeda, D. M., Jadvar, H., Langleben, D., Strauss, H. W.
  SOC NUCLEAR MEDICINE INC.1999: 253P
- **Lymphatic mapping and sentinel node biopsy in breast cancer.**
  Pace, W. M., Jeffrey, S. S., Strauss, H. W.
  SOC NUCLEAR MEDICINE INC.1999: 139P
- **Gene expression patterns in human breast cancer; correlation of microarray analysis with immunohistochemistry.**
  van de Rijn, M., Perou, C. M., Jeffrey, S. S., Elsen, M. B., Brown, P. O., Botstein, D.
  LIPPINCOTT WILLIAMS & WILKINS.1999: 32A
- **Breast disease: Dynamic spiral MR imaging** *82nd Scientific Assembly and Annual Meeting of the Radiological-Society-of-North-America*
  Daniel, B. L., Yen, Y. F., Glover, G. H., Ikeda, D. M., Birdwell, R. L., Sawyer-Glover, A. M., Black, J. W., Plevritis, S. K., Jeffrey, S. S., Herfkens, R. J.
  RADIOLOGICAL SOC NORTH AMERICA.1998: 499–509
- **Breast lesion localization: A freehand, interactive MR imaging-guided technique** *RADIOLOGY*
  Daniel, B. L., Birdwell, R. L., Ikeda, D. M., Jeffrey, S. S., Black, J. W., Block, W. F., Sawyer-Glover, A. M., Glover, G. H., Herfkens, R. J.
  1998; 207 (2): 455-463
- **Value of combined imaging and use of gamma probe in intraoperative localization of sentinel lymph node in breast cancer**
  Jadvar, H., Jeffrey, S., Cua, D., Birdwell, R., Strauss, H. W.
  SOC NUCLEAR MEDICINE INC.1998: 24P
- **Three-dimensional shaded-surface rendering of MR images of the breast: technique, applications, and impact on surgical management of breast disease.** *Radiographics*
  Daniel, B. L., Jeffrey, S. S., Birdwell, R. L., Ikeda, D. M., Sawyer-Glover, A. M., Herfkens, R. J.
  1998; 18 (2): 483-496
- **Shaded-surface rendering of MR images of the breast: Technique, applications, and impact on surgical management of breast disease** *RADIOGRAPHICS*
  Daniel, B. L., Jeffrey, S. S., Birdwell, R. L., Ikeda, D. M., Sawyer-Glover, A. M., Herfkens, R. J.

1998; 18 (2): 483-496

- **Preliminary experience with power Doppler imaging of solid breast masses** *1995 Annual Meeting of the Radiological-Society-of-North-America*
  Birdwell, R. L., Ikeda, D. M., Jeffrey, S. S., Jeffrey, R. B.
  AMER ROENTGEN RAY SOC.1997: 703–7
- **Management of breast cancer following Hodgkin's disease**
  Wolden, S. L., Carlson, R. W., Jeffrey, S. S., Hancock, S. L.
  PERGAMON-ELSEVIER SCIENCE LTD.1997: 258
- **Ultrasound tissue characterization of breast biopsy specimens: Expanded study** *ULTRASONIC IMAGING*
  MORTENSEN, C. L., Edmonds, P. D., Gorfu, Y., Hill, J. R., Jensen, J. F., Schattner, P., Shifrin, L. A., VALDES, A. D., Jeffrey, S. S., Esserman, L. J.
  1996; 18 (3): 215-230
- **Value of sonographic identification of breast masses in excised specimens in the breast imaging department.** *Breast Disease*
  Birdwell RL, Ikeda DM, Jeffrey SS
  1996; 9: 93-99
- **AXILLARY LYMPHADENECTOMY FOR BREAST-CANCER WITHOUT AXILLARY DRAINAGE** *66th Annual Session of the Pacific-Coast-Surgical-Association*
  Jeffrey, S. S., Goodson, W. H., Ikeda, D. M., Birdwell, R. L., Bogetz, M. S.
  AMER MEDICAL ASSOC.1995: 909–13
- **THE IMPORTANCE OF THE LUMPECTOMY SURGICAL MARGIN STATUS IN LONG-TERM RESULTS OF BREAST-CONSERVATION** *CANCER*
  Smitt, M. C., Nowels, K. W., ZDEBLICK, M. J., JEFFREY, S., Carlson, R. W., Stockdale, F. E., Goffinet, D. R.
  1995; 76 (2): 259-267
- **ABDOMINAL ABSCESS - A SURGICAL STRATEGY** *ARCHIVES OF SURGERY*
  Glick, P. L., Pellegrini, C. A., Stein, S., Way, L. W.
  1983; 118 (5): 646-650
- **RESECTION OF GASTRINOMAS** *ANNALS OF SURGERY*
  Deveney, C. W., Deveney, K. E., Stark, D., Moss, A., Stein, S., Way, L. W.
  1983; 198 (4): 546-553
- **CIMETIDINE IN THE TREATMENT OF ZOLLINGER-ELLISON SYNDROME** *AMERICAN JOURNAL OF SURGERY*
  Deveney, C. W., Stein, S., Way, L. W.
  1983; 146 (1): 116-123
- **INTRAMURAL HEMATOMA OF THE CECUM FOLLOWING BLUNT TRAUMA** *JOURNAL OF COMPUTER ASSISTED TOMOGRAPHY*
  Jeffrey, R. B., Federle, M. P., Stein, S. M., Crass, R. A.
  1982; 6 (2): 404-405
- **RESTING STATE IN NORMAL AND SIMIAN VIRUS-40 TRANSFORMED CHINESE-HAMSTER LUNG-CELLS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Martin, R. G., Stein, S.
  1976; 73 (5): 1655-1659
- **ROLE FOR HEME IN MAMMALIAN PROTEIN-SYNTHESIS - ACTIVATION OF AN INITIATION-FACTOR** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Raffel, C., Stein, S., Kaempfer, R.
  1974; 71 (10): 4020-4024
- **GLUCOSE-METABOLISM IN NEISSERIA-GONORRHOEAE** *JOURNAL OF BACTERIOLOGY*
  Morse, S. A., Stein, S., Hines, J.
  1974; 120 (2): 702-714