# NIH Biographical Sketch Common Form

Name: Pories, Susan Elaine

Persistent Identifier (PID) of the Senior/Key Person: https://orcid.org/0000-0001-7315-9993

Position Title: Professor of Surgery, Vice Chair Quality and Safety, Department of Surgery, Director of Rutgers Breast Center at University Hospital

Organization and Location:Rutgers New Jersey Medical School, Newark, New Jersey, United States

PROFESSIONAL PREPARATION

| INSTITUTION AND LOCATION | DEGREE | Start Date | Completion Date | FIELD OF STUDY |
|---|---|---|---|---|
| Mount Auburn Hospital, Harvard Medical School, Cambridge, Massachusetts, United States | Fellow | 07/2005 | 07/2006 | Rabkin Fellowship in Medical Education |
| New England Deaconess Hospital, Harvard Medical School, Boston, Massachusetts, United States | Fellow | 07/1989 | 07/1991 | Surgical Oncology Research T32 |
| University of Vermont, Burlington, Vermont, United States | Resident | 07/1984 | 07/1989 | Surgery |
| University of Vermont, Burlington, Vermont, United States | Doctor of Medicine (MD) | 09/1980 | 05/1984 | Medicine |
| University of Vermont, Burlington, Vermont, United States | Bachelor of Science (BS) | 09/1973 | 05/1975 | Education |

**Appointments and Positions**

2023 - present Professor of Surgery, Vice Chair Quality and Safety, Department of Surgery, Director of Rutgers Breast Center at University Hospital, Rutgers New Jersey Medical School, Newark, New Jersey, United States

1991 - 2023 Breast Surgeon, Associate Professor of Surgery, Beth Israel Deaconess Medical Center (previously New England Deaconess Hospital), Harvard Medical School, Boston, Massachusetts, United States

1991 - 2023 Breast Surgeon, Associate Chair of Surgery for Faculty Affairs, Director of Hoffman Breast Center, Chief of Breast Surgery, Associate Professor of Surgery, Mount Auburn Hospital, Harvard Medical School, Cambridge, Massachusetts, United States

**Products**

*Products Closely Related to the Proposed Project*

1. Roy R, Schunkert EM, Olivova P, Gilar M, Geromanos S, Li GZ, Gebler J, Dagher A, El-Hayek A, Aldakhlallah R, Staffa SJ, Zurakowski D, Lotz M, Pories S, Moses MA. Identification of vitronectin as a potential non-invasive biomarker of metastatic breast cancer using a label-free LC-MS/MS approach. Breast Cancer Res. 2025 May 29;27(1):94. PubMed Central PMCID: PMC12123798.
2. Roy R, Man E, Aldakhlallah R, Gonzalez K, Merritt L, Daisy C, Lombardo M, Yordanova V, Sun L, Isaac B, Rockowitz S, Lotz M, Pories S, Moses MA. Mammary adipocytes promote breast tumor cell invasion and angiogenesis in the context of menopause and obesity. Biochim Biophys Acta Mol Basis Dis. 2024 Oct;1870(7):167325. PubMed PMID: 38925485.
3. Roy R, Yang J, Shimura T, Merritt L, Alluin J, Man E, Daisy C, Aldakhlallah R, Dillon D, Pories S, Chodosh LA, Moses MA. Escape from breast tumor dormancy: The convergence of obesity and menopause. Proc Natl Acad Sci U S A. 2022 Oct 11;119(41):e2204758119. PubMed Central PMCID: PMC9564105.
4. Roy R, Zurakowski D, Pories S, Moss ML, Moses MA. Potential of fluorescent metalloproteinase substrates for cancer detection. Clin Biochem. 2011 Dec;44(17-18):1434-9. PubMed Central PMCID: PMC3232457.
5. Roy R, Wewer UM, Zurakowski D, Pories SE, Moses MA. ADAM 12 cleaves extracellular matrix proteins and correlates with cancer status and stage. J Biol Chem. 2004 Dec 3;279(49):51323-30. PubMed PMID: 15381692.

*Other Significant Products Highlighting Contributions to Science*

1. Sandler KL, Godfrey CM, Welty V, Jani C, Deppen S, Paulson AB, Joyner S, Marmor H, Wallace G, Hatcher L, Fike L, Gupta A, Bhatt PS, Paliotti G, Ahmed A, Al Omari O, Agarwal L, Rupal A, Lotz M, Pories SE, Kazerooni EA, Smith RA, Thomson CC. Successful Improvement in Lung Screening Enrollment for Women Undergoing Breast Screening-The CALM Study (Coordinate a Lung Screening With Mammography). J Am Coll Radiol. 2025 Dec;22(12):1510-1517. PubMed PMID: 41338704.
2. Lotz M, Keates S, Carr D, Noor N, Demtchouk V, Zurakowski D, Staffa SJ, Winkelman W, Weissmann L, Pories S, Elkadry E. Overactive Bladder Symptoms in Cancer Patients Undergoing Chemotherapy. Am J Clin Oncol. 2026 Jan 1;49(1):25-29. PubMed PMID: 40605818.
3. Mehra S, Yang A, Dornbrand-Lo M, Beesam S, Mele A, Chokshi RJ, Joseph KA, Berry CD, Pories SE. Safety Net Hospitals and the Quality of Surgical Care. Ann Surg Open. 2025 Mar;6(1):e553. PubMed Central PMCID: PMC11932591.
4. Yue T, Wong LY, Jani C, Agarwal L, Al Omari O, Aghagoli G, Ahmed A, Bhatt P, Lee A, Lotz M, Marmor H, Paliotti G, Pories S, Richmond J, Shula L, Sandler KL, Conley Thomson C, Backhus LM. Combined Breast and Lung Cancer Screening Among Dual-Eligible Women: A Descriptive Study. J Surg Res. 2025 Mar;307:204-211. PubMed Central PMCID: PMC11628635.
5. Joung RH, Mullett TW, Kurtzman SH, Shafir S, Harris JB, Yao KA, Bilimoria KY, Cance WG, Nelson H. Evaluation of a National Quality Improvement Collaborative for Improving Cancer Screening. JAMA Netw Open. 2022 Nov 1;5(11):e2242354. PubMed Central PMCID: PMC9669819.

**Certification:**

I certify that the information provided is current, accurate, and complete. This includes but is not limited to information related to domestic and foreign appointments and positions.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

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# NIH BIOGRAPHICAL SKETCH SUPPLEMENT

Name: Pories, Susan Elaine

Persistent Identifier (PID) of the Senior/Key Person: https://orcid.org/0000-0001-7315-9993

Position Title: Professor of Surgery, Vice Chair Quality and Safety, Department of Surgery, Director of Rutgers Breast Center at University Hospital

Organization and Location: Rutgers New Jersey Medical School, Newark, New Jersey, United States

## Personal Statement

I am the Chief of Breast Surgery and the Director of the Breast Center, the Chair of the Breast Center Steering Committee, and Vice Chair of Surgery for Quality and Safety at Rutgers, State University of New Jersey, New Jersey Medical School, University Hospital, Cancer Institute of New Jersey at University Hospital. Before coming to NJMS, I was the Associate Chair of Surgery for Academic Affairs, Chief of Breast Surgery, and Director of the Hoffman Breast Center at Mount Auburn Hospital, Harvard Medical School. I have extensive experience in the management of complex breast cancers and surgical leadership. I have served as President of the Association of Women Surgeons, President of the medical staff at Mount Auburn Hospital, and on the Board of Governors for the American College of Surgery. As the Vice Chair of Quality and Safety for the department of surgery, I lead the quarterly grand rounds on quality and safety, review all morbidity and mortality reports, and take part in root cause analyses and quality initiatives for University Hospital. As the Director of the Breast Center, my goals are to provide the highest quality care to breast cancer patients, while educating medical students and residents about breast disease and participating in research efforts to improve breast cancer care. As an experienced breast surgeon and with many years of experience in research, I am well positioned to collaborate with colleagues on breast cancer research. For publications see https://pubmed.ncbi.nlm.nih.gov/?term=pories+s&sort=date

## Honors

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|---|---|
| 2025 | Olga Jonasson Award Distinguished Member Award, Association of Women Surgeons |
| 2023 | Diversity, Equity, Inclusion: Distinguished Service Award, American College of Surgeons |
| 2022 | Shirley Driscoll Dean's Leadership Award for the Enhancement of Women's Careers, Joint Committee on the Status of Women, Harvard Medical School |
| 2022 | Honorary Fellow, Society of Black Academic Surgeons |
| 2013 | Honor Roll, Women Physician Leadership Award, The Massachusetts Medical Society Committee on Women in Medicine |
| 2010 | The Rheta Foster Award in recognition of efforts to improve the life and care of breast cancer patients and their families , Mount Auburn Hospital |
| 2010 | A. Clifford Barger Excellence in Mentoring Award, Harvard Medical School |
| 2009 | Physician Mentor Recognition Award, AMA Women Physicians Congress |
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## Contributions to Science

1. As a fellow in a NIH T32 program project grant, I began my research career by studying colon cancer. We hypothesized that we could establish a pre-neoplastic, non-tumorigenic colon cell lines for manipulation and study. Our group was the first to successfully immortalize and culture normal colon for the study of colon cancer progression. This was a significant accomplishment as these stable cell lines that we shared with many other investigators around the world who were interested in studying colonic epithelium. Using the model that we established, I then showed that overexpression of cellular Src led to a significant gain in invasive behavior in colonic epithelial cells. This was a novel observation as we were the first to show that a normal gene could cause malignant behavior when overexpressed. We then sought to assess the relative importance of epidermal growth factor (EGF) stimulation and c-Src overexpression in conferring an invasive phenotype. We showed that breast carcinoma cells transfected with c-Src were unable to invade without EGF stimulation, an observation of great importance in the understanding and treating of breast cancer.
2. My work now increasingly focuses on education, screening and prevention, quality of care and quality of life for surgical patients. I have also edited five educational books: The Soul of a Doctor: Harvard Medical Students Face Life and Death, The Soul of a Patient: Lessons in Healing for Harvard Medical Students, Biographies of Disease: Cancer, the AWS Pocket Mentor,

and Navigating Your Surgical Career: The AWS Guide to Success (first and second editions).

3. After completing research fellowship, my surgical practice focused on breast cancer and I changed my research focus accordingly. I originally became interested in metalloproteases (MMPs) because they appeared to interact with the src pathways. I began working with Dr. Marsha Moses, The Julia Dyckman Andrus Professor of Surgery at Harvard Medical School and the Director of the Vascular Biology Program at Children's Hospital Boston, on the role of MMPs in breast cancer progression as well as identifying urinary biomarkers for breast cancer. I helped to assemble a closely knit collaborative multi-disciplinary, multi-institutional group of clinicians and scientists to work together on this translational research project. The strength of my basic science research has been my ability as a surgeon to see the importance of a clinical problem and to help with the process of translational research. I have continued my collaboration with researchers at Harvard Medical School and we have also explored the relationship between obesity and breast cancer.

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