

CURRICULUM VITAE

RACHEL FRYDMAN BREM, M.D.

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CITIZENSHIP: USA

EDUCATION

1975 - 1979 Brandeis University, BA, Biology, Magna cum Laude with highest honors in biology

1979 - 1980 Johns Hopkins University, Research Fellowship, Division of Neuroscience

1980 - 1984 College of Physicians and Surgeons of Columbia University, M.D.

CLINICAL ACTIVITIES

1980 - 1984 College of Physicians and Surgeons of Columbia University

1984 - 1985 Internship: Internal Medicine
Sinai Hospital of Baltimore

1985 - 1989 Radiology Residency
Johns Hopkins Hospital

- Department of Radiology and Radiological Science
- 1989 - 1990 Fellowship in Magnetic Resonance Imaging
Johns Hopkins Hospital Department of Radiology and Radiological Science
- 1990 Fellowship, Breast Imaging
Johns Hopkins Hospital
Department of Radiology and Radiological Science
- 1990 - 1992 Medical Staff, The Johns Hopkins Medical Institutions, Department of Radiology and Radiological Science
- 1992 - 1994 Medical Staff, St. Joseph's Hospital
Towson, MD
- 1992 - 1994 Director, Breast Imaging
St. Joseph's Hospital, Towson, MD
- 1992 - 1994 Director, MRI, St. Joseph's Hospital,
Towson, MD
- 1994 - 2000 Medical Staff, The Johns Hopkins Medical Institutions
- 2000- present Medical Staff, The George Washington University Medical Center
- 2000- present Director, Breast Imaging and Intervention,
The George Washington University
- 2001- present Vice Chair for Research and Faculty Development, Department of Radiology, The George Washington University

ACADEMIC POSITIONS

- 1976 Research Assistant, Department of Anatomy,
Harvard Medical School.
- 1977 - 1979 Predoctoral Fellow, Department of Biology,
Brandeis University
- 1979 - 1980 Predoctoral Fellow, Department of Neurology,
Johns Hopkins University School of Medicine
- 1980 - 1984 Predoctoral Fellow, Department of Medicine

(Cardiology), Columbia University College of Physicians and Surgeons

1985 - 1989

Fellow, Department of Radiology, Johns Hopkins University School of Medicine

1989 - 1991

Instructor in Radiology, Johns Hopkins University School of Medicine

1991

Visiting Scientist, Armed Forces Institute of Pathology

1991 - 1992

Director, Breast Imaging, Johns Hopkins Hospital

1991 - 1992

Assistant Professor, full-time, Department of Radiology Johns Hopkins University School of Medicine

1992 - 1994

Assistant Professor, part-time, Department of Radiology, Johns Hopkins University School of Medicine

1994 - 1999

Acting Director, Division of Breast Imaging, Russell H. Morgan Department of Radiology and Radiological Sciences, Johns Hopkins Medical Institutions.

1994 - 2000

Assistant Professor, Full Time, Division of Breast Imaging, Russell H. Morgan Department of Radiology and Radiological Sciences, Johns Hopkins Medical Institutions

1996 - 2000

Assistant Professor, Department of Oncology Johns Hopkins University School of Medicine

2000 -2002

Associate Professor, Department of Radiology, The George Washington University Medical Center

2000 -present

Director, Breast Imaging and Intervention, The George Washington University Medical Center

2003- present

Professor of Radiology, The George Washington University Medical Center

HONORS

- 1979 Highest Honors in Biology
Brandeis University
- 1979 Biology Honors Thesis: "Regulation of
Contractile Proteins in Brain"
- 1979 - 1980 Henry R. Viets Fellow,
Myasthenia Gravis Foundation
- 1979 - 1980 Muscular Dystrophy Association Fellowship
- 1984 NIH Research Fellowship
- 1984 Stevelman Award for Excellence in Clinical
Cardiology, College of Physicians &
Surgeons of Columbia University
- 1985 Department of Medicine Award,
Sinai Hospital, Best Housestaff Paper
- 1996 RSNA Certificate of Merit, "Difficult
Preoperative Needle Localization: Lessons to
Be Learned "
- 1997 Medal of Honor, Jagelunski University,
Krakow, Poland
- 1997 RSNA Certificate of Merit & Excellence in Design,
"Special Mammographic Views for
Special Circumstances"
- 1997 RSNA Excellence in Design, "Radiolucency
of Breast Implants: Spectrum of Silicone,
Saline and Triglyceride Implants"
- 1997 RSNA Excellence in Design, "Spectrum of
Unusual Manifestation of Non-Pathologic
Breast Parenchyma"
- 1997 RSNA Excellence in Design, "Advanced Breast
Biopsy Instrument: Integration and
Applications in Breast Imaging"
- 1997 RSNA Selection for Publication in Radiographics,
"Comparison of Techniques in Stereotactic Guided

- Vacuum Assisted Directed Breast Biopsy"
- 1998 RSNA Selection for Publication in Radiographics, "Advanced Breast Biopsy Instrument: Integration and Applications in Breast Imaging"
- 1998 Fellow, Society of Breast Imaging
- 1998 Selection of Scientific Exhibit 'Advanced Breast Biopsy Instrument: Integration and Applications in Radiology' for radiology.com
- 1998 RSNA Certificate of Merit: Evaluation with Scintimammography: A Scintimammographic Atlas and Proposed Classification System for Image Interpretation. Radiology 1999;213(P):508.
- 1999 Editors Recognition Award, [The Journal of Woman's Imaging](#).
- 2001 Center of Excellence Award, Bristol Myers Squibb
- 2001 – 2005 Who's Who of American Women, Marquis Publishers, New Providence, NJ
- 2001 Improvement in sensitivity of screening Mammography with computer –aided detection (CAD): A multi-institutional trial: Nominated, Best Scientific Paper, European Congress of Radiology 2002, Vienna, Austria
- 2002 Chosen one of "Ten Women to Watch in 2003", by Jewish Women International
- 2003 American Registry of Outstanding Professionals
- 2003 International Biographical Centre: Woman of the Year
- 2003 Editor's Recognition Award, Journal of Women's Imaging
- 2005 Mary Alice Stoddard Award, The Family and Child Services of Washington DC for Contribution to the Community through the George Washington University Mobile Mammography Program
- 2005 Editorial Advisory Panel, American Journal of

Roentgenology

- 2004 Elaine H. Snyder Cancer Research Award,
The George Washington University
- 2006 American's Top Radiologist, Consumer Research Council
of American
- 2006 Advisory Board, American Journal of Radiology Website for
Woman's Imaging, Marcia Javitt, Chair
- 2006 Advisory Board, Javitt Center for Women's Health
- 2007 America's Top Doctors, Castle Connolly Medical LTD
- 2008 America's Top Doctors, Castle Connolly Medical LTD
- 2009 George Washington University Cancer Gala: Commitment
to Overcoming Cancer Award, Ritz Carlton Hotel,
Washington, DC
- 2009 Presidential Who's Who
- 2010 Strathmore's Who's Who
- 2010 Golden Apple Award, Resident's Choice Award, Professor of
the Year. Department of Radiology, The George Washington
University
- 2011 Fellow, American College of Radiology

CONSULTING

- Board of Directors, National Breast Database
- Collagen Corporation, Neufchatel, Switzerland
- R2 Technology, Inc., Los Altos, CA
- Williams & Wilkens, Baltimore, MD
- United States Surgical Corp., Danbury, CT
- Dilon Technologies, Inc., Williamsburg, VA
- Intelligent Systems, Tampa, FL

Nuclear Imaging of Breast Advisory Panel, Dupont
Pharmaceuticals Company Medical Imaging,
Wilmington, Delaware

Shared Medical Systems (SMS), Malvern, PA

Dupont Pharmaceuticals, Billerica, MA

SenoRx, Inc. Aliso Viejo, CA

Medical Advisory Board, Haddasah of Greater Baltimore

Medical Advisory Board, TransScan Medical

Breast Cancer Advisory Board, General Electric, Milwaukee,
WI, 2004

Oncad, Alan Penn Diagnostics, Chair, Medical Advisory
Board, Rockville, MD

Orbotech Ltd. Yavneh, Israel, Consultant, 2007-2008

U-Systems, San Jose , CA, Consultant, 2009

Siemens Medical Solutions, Consultant, 2009

Philips Medical, Consultant, 2009

Konica Minolta, Consultant,2008

JOURNAL REVIEWER:

1998	The Female Patient
1998 -present	Clinical Cancer Research
1998 –present	Journal of National Cancer Institute
1998 –present	American Journal of Roentgenology
1998 –present	Journal of General Internal Medicine
1999 – 2000	Breast Cancer Research and Treatment, Kluwer

	Academic Publishers
2000 –present	Cancer
2001 –present	The Breast Journal
2002 –present	Journal of Nuclear Medicine
2002 –present	International Journal of Cancer
2004- present	Mayo Clinic Proceedings
2006-present	Academic Radiology
2009- present	Radiology
2009- present	Applied Radiation and Isotopes

EDITORIAL BOARDS:

2000-2005	The Breast Journal
2000-2006	Journal of Women’s Imaging
2001-	Cancer
2008-	AJR, American Journal of Reontgenology, Assistant Editor, Women Imaging Section

SCIENTIFIC ADVISORY BOARDS:

Dilon Technologies, Inc.
Dupont Pharmaceuticals, Breast Imaging
Trans-Scan Corporation
CADx Inc.
Cadimas
iCAD

Penn Diagnostics and Associates

Orbotech

U-Systems

General Electric, Breast Imaging

Hologic, Interventional Breast Procedures

BOARD OF DIRECTORS:

iCAD

Dilon Technologies

OnCAD , Alan Penn and Associates

INVITED REVIEWER:

1992 - 1994

The Maryland Cancer Registry Advisory
Committee, Maryland State Council on Cancer
Control

1996

U.S. Army Medical Research and Materials Command,
Breast Cancer Program

1998

American College of Radiology, Mammography
Accreditation Program

1998

Consultant, Medical Devices Advisory Committee, Center for
Devices and Radiological Health, Food and Drug
Administration

1999

Susan G. Komen Breast Cancer Foundation, Maryland
Chapter, Grant Review

2001

Diagnostic Imaging Study Section, NIH, Grant
Reviewer (6/4/01) – ZRG1 RNM (33)

2002

Development of Novel Technologies for in Vivo
Imaging (ZCA 1 SRRB-9 J2 R), NCI Grant Reviewer

2003

Novel Technologies for in Vivo Imaging PAR 03-125, NCI
Grant Reviewer, Gaithesburg, MD

- 2005 Image Guided Cancer Interventions SBIB-J (11), NIH Grant Review, ZRG1 SBIB-J11B RFA 04-063, Washington, DC
- 2005 Special Study Section "Development of Methods for in vivo Imaging and Bioengineering Research", ZRG1 SBIB-J 01 S, NCI, Washington, DC.
- 2006 Special Study Sections" In Vivo Imaging and Bioengineering Research", NCI, Washington, DC ZRG1 SBIB-J (01) (B)
- 2006 "In Vivo Imaging and Bioengineering Research" Study Section, SBIB-J (51) on November 6 and 7
- 2007 2007 Council ZCA 1 GRB-P M 1 S Development and Discovery Special Emphasis Panel Review, February 7-9

ADMINISTRATIVE POSITIONS

- 1995-2000 Mentor, American Medical Women's Association Mentor Program
- 1995-2000 Steering Committee, Johns Hopkins Breast Center, Baltimore, Maryland
- 1996-2000 Organizing Committee, Johns Hopkins Comprehensive Women's Program
- 1997-2000 Chair, Clinical Programs Committee, Comprehensive Women's Program, Johns Hopkins Medical Institutions
- 1998-2000 National Comprehensive Cancer Network Panel Member, Breast Screening Committee
- 1999 Strategy Board, Johns Hopkins University Engineering Research Center
- 1999 Consultant, Medical Devices Advisory Committee, Center for Devices and Radiological Health, Food and Drug Administration
- 2000 –present Cancer Committee, The George Washington University

	Hospital
2001 –present	Faculty Senate, The George Washington University School of Medicine
2001	Selection Committee, Director of Nuclear Medicine, The George Washington University Medical Center.
2001 – 2002	Selection Committee, Director of Radiation Oncology, The George Washington University Medical Center.
1998	National Institutes of Health, Member Ad-Hoc Study Section, Diagnostic Imaging (DMG)
1998	Resident Selection Committee, Department of Radiology, The George Washington University Medical Center
2001	Executive Committee, Department of Radiology, The George Washington University Medical Center
1999	Editorial Board, <i>The Breast Journal</i> , Blackwell Science
2001	Editorial Board, <i>The Journal of Women's Imaging</i> , Lippincott Williams and Wilkins
2002	Selection Committee, Director Breast Surgery, The George Washington University
2002- present	Admissions Committee, The George Washington University School of Medicine
2003- 2005	Executive Committee, The George Washington University Hospital
2003	Appointment, Salary and Promotion Policies (ASAP) Committee
2003	Editorial Advisory Board, Cancer: Interdisciplinary International Journal of the American Cancer Society
2003	Co-Chair, Women's Health Congress, The George Washington University Medical Center
2004	Director, Mobile Mammography Program, The George Washington University Medical Center

2005	Faculty Support Committee, The George Washington University Medical Center, member
2005	Medical Executive Committee Hearing Committee, The George Washington Hospital
2005- present	Founder, Brem Foundation to Defeat Breast Cancer, Prince Frederick, MD
2006-present	Executive Committee, Medical Center Senate, The George Washington University
2006	Consultant to Hologic, Inc. to Center for Medicare and Medicaid

LICENSURES AND CERTIFICATIONS

1985	Diplomate, National Board of Medical Examiners
1986	Maryland License
1990	Diplomat, American Board of Radiology
2000	Washington DC License

MEMBERSHIPS

Maryland Radiologic Society
American College of Radiology
Radiological Society of North America
Society of Magnetic Resonance Imaging
American Association for Women Radiologists
Maryland Medical Breast Society
Maryland Cancer Registry Advisory Committee
Society of Breast Imaging
American Medical Women's Association, Inc.
American Society of Breast Disease
Society of Breast Imaging

STUDENTS/FELLOWS

STUDENTS:

Lieba Sanow
 Julie Kaplan
 Rachel Roistman
 Alexis Bakos Brown
 Aviva Richman
 Jennifer Massengale (4th year Medical Student,
 GW)
 Jessica Hsiu, (4th year Medical Student, GW)
 Naveh Levy (4th year Medical Student, GW)
 Kimmie Bui (4th year Medical Student, GW)
 Arcel DeGuzman (4th year Medical Student, GW)
 Lakshmi Basavaraju(4th year Medical Student, GW)
 Jun Yang PhD Candidate, Department of
 Engineering, George Washington
 University (Ultrasound Tissue
 Characterization and
 Parametric Imaging for
 Breast Cancer Detection)
 Yongning Zou PhD Candidate, Department of
 Engineering, George Washington
 University (Electrical Impedance
 Imaging for Breast Cancer Detection)
 Gaurav Jindal (4th year Medical Student, GW)
 Holly Yeatman (4th year Medical Student, GW)
 Ivan Petrovich (Radiology Resident)
 Jonathan Hargrave (4th year Medical Student, GW)
 Tiffany Tsai (4th year Medical Student, GW)
 Jason Katzen (Post Doctoral Fellow)
 Shane Wasden (1^s year Medical Student, GW)
 Catherine Vu (4th year Medical Student, GW)
 Jonathan Hargraves(4th year Medical Student, GW)
 Vivek Patil (1st year Medical Student, GW)
 Jason Katzen (4th year Medical Student, GW)
 Mahsa Tehrani (4th year Medical Student, GW)
 Michael Fishman (4th year Medical Student, GW)
 Lakshmi Konsul (4th year Medical Student, GW)
 Dalia Fadul (4th year Medical Student, GW)

FELLOWS:

Christine Chaconis, M.D. (Breast Imaging Fellow)
 Valerie Behrndt, M.D. (Breast Imaging Fellow)
 Deborah Barbakoff, M.D. (Breast Imaging Fellow)
 Julie Shaffry, M.D. (Breast Imaging Fellow)

Joelle Schoonjans M.D.	(Belgium) (Research Fellow)
Audrey Nolten, MD	(Breast Imaging Fellow)
Elyse Berman, MD	(Breast Imaging Fellow)
Jocelyn Simon, M.D.	(Breast Imaging Fellow)
Deborah Ash, M.D.	(Breast Imaging Fellow)
Michele McCorvey, M.D.	(Breast Imaging Fellow)
Kevin Mohtashemi, M.D.	(Research Fellow)
Jason Appell, M.D.	(Research Fellow)
Angelique Floerke, M.D.	(Radiology Resident)
Vivek Mathur, M.D.	(Radiology Resident)

TEACHING ACTIVITIES

1989 - 1990	Lecturer, Musculoskeletal Magnetic Resonance Imaging: Practicum in Magnetic Resonance Imaging, Johns Hopkins Medical Institutions
1990	Resident Education in Breast Imaging, Johns Hopkins University School of Medicine
1990 - 1992	Medical Student Education in Breast Imaging
1991 - 1992	Course Director, Practicum in Breast Imaging, Johns Hopkins Medical Institution (New Course Developed for CME, attended by national and international radiologists)
1991 - 1992	Educational Coordinator, Radiology Colloquia, Dept of Radiology, Johns Hopkins Hospital
1991 - 1995	Chairman, Educational Committee, Maryland Radiological Society
1995 - 1996	Chairman, Educational Committee, American Association for Women in Radiology
1997-2000	Course Director, Practicum in Breast Imaging, Johns Hopkins Medical Institution
1997-1999	Coordinator, Resident Education in Breast Imaging, Department of Radiology and Radiological Sciences, Johns Hopkins Medical Institutions

- 1997-2000 Lecturer, Pathophysiology Course Second Year Medical Students, Johns Hopkins University School of Medicine
- 1997- 2000 Conference Director, Radiological-Pathologic Correlation Conference-Breast Disease, Johns Hopkins Medical Institutions
- 1998 Program Committee, The Association of University Radiologists, Oak Brook, IL
- 1998 - 2000 Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, Johns Hopkins Medical Institutions (Attended by national and international radiologists and surgeons)
- 1999- 2000 Resident Education, Department of Radiology and Radiological Sciences, Johns Hopkins Medical Institutions
- 1999-2000 Thesis Review Committee, Determinants of Diagnostic Follow-up After Inconclusive Screening Mammogram, Alexis Bakos Brown, PhD candidate, Johns Hopkins University
- 2000 - 2002 Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, The George Washington University Medical Center
- 2000- present Coordinator Resident Education in Breast Imaging, Department of Radiology The George Washington University Medical Center
- 2000- present Director, Fellowship, Breast Imaging and Intervention, The George Washington University Medical Center
- 2001 –present Coordinator, Breast Imaging, in ‘Women’s Health’ elective, Primary Care Residency, The George Washington University
- 2001 –present Coordinator, Breast Imaging, in ‘Women’s Health’ elective, Internal Medicine Residency, The George Washington University
- 2001 –2003 Ph.D Dissertation Committee, Jun Yang, Department of

	Engineering, The George Washington University, Breast Cancer Detection Using Ultrasound Tissue Characterization and Parametric Imaging
2001 –2003	Ph.D Dissertation Committee, Yongning (Roy) Zou, Department of Engineering, The George Washington University, Electrical Impedance Imaging for Breast Cancer Detection
2002 –2004	Resident Curriculum in Radiology Re-Development Committee
2002	Lecturer, Women's Health: Issues and Controversies in the School of Public Health and Health Services, Course Director: Jehan El-Bayoumi, M.D.
2002-present	Resident Education in Breast Imaging, Internal Medicine, Primary Care, Surgery and Ob/Gyn
2005	Course Co-Director, Biennial Breast Imaging Conference, DC/Maryland Chapters, American College of Radiology
2009	Course -Director, Biennial Breast Imaging Conference, DC/Maryland Chapters, American College of Radiology
2009	Course Director. First US Israel Breast Imaging Update, Jerusalem, Israel
2010	Course Director. Breast Imaging Update in the Capital. Washington, DC

NEW COURSES DEVELOPED :

1997 – 2000	Conference Director, Radiologic-Pathologic Correlation Conference-Breast Disease, Johns Hopkins Medical Institutions
1998 – 2000	Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, Johns Hopkins Medical Institutions (Attended by national and international radiologists and surgeons)
2000	Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, The George Washington University
2000 –present	Director, Fellowship, Breast Imaging and Intervention, The George Washington University Medical Center

- 2009 First US Israel Breast Imaging Update, Jerusalem, Israel
- 2010 Breast Imaging Update in the Capital

SERVICE TO THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

- 2000 Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, The George Washington University
- 2000 –present Director, Fellowship, Breast Imaging and Intervention, The George Washington University Medical Center
- 2000 –present Medical Staff, The George Washington University Hospital
- 2000 –present Director, Breast Imaging and Intervention , The George Washington University
- 2000 Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, The George Washington University Medical Center
- 2000 –present Coordinator Resident Education in Breast Imaging, Department of Radiology The George Washington University Medical Center
- 2001 –present Coordinator, Breast Imaging, in ‘Women’s Health’ elective, Primary Care Residency, The George Washington University
- 2001 –present Coordinator, Breast Imaging, in ‘Women’s Health’ elective, Internal Medicine Residency, The George Washington University
- 2001 –present Vice Chair for Research and Faculty Development, Department of Radiology, The George Washington University
- 2000 –present Cancer Committee, The George Washington University Hospital
- 2001 –present Faculty Senate, The George Washington University School of Medicine
- 2001 Selection Committee, Director of Nuclear Medicine, The

	George Washington University Medical Center
2001 – 2002	Selection Committee, Director of Radiation Oncology, The George Washington University Medical Center
2001 –present	Resident Selection Committee, Director of Radiology, The George Washington University Medical Center
2000	Executive Committee, Department of Radiology, The George Washington, University Medical Center
2000	Course Director, Practicum in Stereotactic Breast Biopsy and Tissue Acquisition, The George Washington University Medical Center
2000 –present	Director, Fellowship, Breast Imaging and Intervention, The George Washington University Medical Center
2001 –present	Ph.D Dissertation Committee, Jun Yang, Department of Engineering, The George Washington University, Breast Cancer Detection Using Ultrasound Tissue Characterization and Parametric Imaging
2001 –present	Ph.D Dissertation Committee, Yongning (Roy) Zou, Department of Engineering, The George Washington University, Electrical Impedance Imaging for Breast Cancer Detection
2001	Selection Committee, Director Breast Surgery, The George Washington University
2002	Lecturer, Women’s Health: Issues and Controversies in the School of Public Health and Health Services, Course Director: Jehan El-Bayoumi, M.D.
2003	Interviewer, Admissions Committee, The George Washington University School of Medicine
2004	Admissions Committee, The George Washington University School of Medicine.
2003	Executive Committee, The George Washington University Hospital
2004	Appointment, Salary and Promotion Policy Committee, The George Washington University

2005-2008	Committee on Admissions and Advanced Standing
2005-2006	Chair, Committee on Admissions and Advanced Standing
2006-present	Executive Committee, The George Washington University Medical Center
2007-present	Expedited Search Committee, The George Washington University Medical Center
2007-present	Vice Chair, Executive Committee, The George Washington University Medical Center

GRANTS:**Funded:**

1993-1997	NCI, Radiologic Diagnostic Oncology Group V: Stereotactic Fine Needle Aspiration Biopsy and Core Needle Biopsy in the Workups of Lesions Detected by Mammography. Principle Investigator: Laurie Fajardo, Role: Site Principle Investigator
1994-1996	USAMR&MC, Innovative developmental and exploratory award, In-vivo microscopic MR Imaging of Breast Lesions. Principle Investigator: Elias A. Zerhouni, Role: Co-investigator, \$149,948
1996	R2 Technologies, Inter-observer Variability in Incremented Improvement in Mammographic Interpretation Using Computer Aided Diagnosis. Role: Principle Investigator
1997	Johns Hopkins Women's Board. High Resolution Real Time Breast Ultrasound. \$150,000
1997-1998	Dilon Technologies, Inc., Evaluation of High Resolution Small Field of View Scintillation Camera for Breast Lesions. Role: Co-investigator, \$111,925
1998-1999	Breast Cancer Research Foundation, Molecular Assessment of Nipple Aspirate Fluid for Evaluation of Breast Cancer. Principle Investigator: Nancy Davidson. Role: Co-investigator, \$80,740

- 1997-2000 NIH, Evaluation of MRI in Breast Cancer: A Multi-institutional trial. Site PI: David Bluemke, MD Role: Co-investigator, \$71,063
- 1998 – 2000 USAMR&MC, A Role for Lymph Nodes in Node-Negative Breast Cancer. Principle Investigator: Julie R. Lange. Role: Co-investigator
- 1999 – 2000 Dupont Pharmaceuticals, High Resolution Breast Specific Gamma Camera. Role: Principle Role: PI, \$28,000
- 1999 – 2000 Dilon Technologies, Pilot Evaluation of High Resolution Breast Specific Gamma Camera. Role: Co-investigator, \$180,000
- 1999 – 2001 CADx Medical, Quebec, Canada. Evaluation of Sensitivity of Mammographic Detection of Breast Cancer with Computer Aided Detection, A Multi-Institutional Trial (18 Institutions). Role: Principle Investigator, The Multi-Institutional Trial and Site PI.
- 2001 – 2004 DupontPharma, Evaluation of Women with Dense Breast and High-Risk of Breast Cancer with Screening High Resolution Scintimammography Role: PI, \$114,585
- 2001 – 2002 Double-Blind, Placebo-Controlled, Dose Ranging Trial to Evaluate the Efficacy of Atorvastatin on Bone Mineral Density and Markers for Bone Turnover in Postmenopausal Women with Dyslipidemia and at Risk for Osteoporosis. Pfizer Pharmaceuticals Group, Protocol number: A2581049 Role: Investigator
- 2001-2006 Evaluation of a High Resolution Breast Specific Gamma Camera. Principle Investigator, PI, Dilon Technologies. \$112,585.00
- 2004-2006 The Sensitivity of the T-SCAN 200 ED in the Detection of Breast Cancer in Women Age 30-45, site PI \$25,000, Trans Scan Corporation
- 2005-2006 Patient Navigator for Mobile Mammography, Susan G. Komen Foundation Grant 3 04DC0191 Role: PI \$75,000
- 2006 Elaine H. Snyder Cancer Research Award, \$65,000.
- 2008-2009 Computerized Mammography. Konica Minolta. Site PI

2009- present EENS90869N. Automated Whole Breast Ultrasound in Women with Dense Breasts. Project PI. Site PI. (\$350,000)

BIBLIOGRAPHY

Peer Reviewed Journals

1. **Brem RF**, Giardina EGV, Bigger JT, Jr: Time course of alpha-1-acid-glycoprotein and its relationship to imipramine plasma protein binding. Clin Pharmacol Ther, 31(2):203, 1982.
2. Giardina EGV, Louie M, Bigger JT, Jr, **Brem R**, Alchevsky D: Antiarrhythmic plasma concentration range of imipramine against ventricular premature depolarizations. Clin Pharmacol Ther, 34(3):284-289, 1983.
3. Giardina EGV, Raby K, Freilich D, Vita J, **Brem RF**, Louie M: Time course of alpha-1-acid glycoprotein and its relation to myocardial enzymes after acute myocardial infarction. Amer J Cardiol, 56(4):262-265, 1985.
4. Giardina EGV, Johnson LL, Vita JA, Bigger JT, Jr, **Brem RF**: Effect of imipramine and nortriptyline on left ventricular function and blood pressure: treatment of arrhythmias in patients with heart disease. Amer Heart J, 109(5):992-998, 1985.
5. Scatarige JC, Fishman EK, Zinreich ES, **Brem RF**, Almaraz R: Internal mammary lymphadenopathy in breast carcinoma: CT appraisal of anatomic distribution. Radiology, 167:89-91, 1988.
6. Carter HB, **Brem RF**, Tempany CM, Yang A, Epstein JI, Walsh, Zerhouni EA. Nonpalpable Prostate Cancer: Detection with MR Imaging. Radiology, 178:523-525, 1991.
7. **Brem RF**, Tempany CMC, Zerhouni EA. MR Detection of Breast Implant Rupture. JCAT, 16(1):157-159, 1992.
8. **Brem RF**, Gatewood OMB. Template guided breast ultrasound. Radiology, 184:872-874, 1992. [Abstracted in Yearbook of

- Diagnostic Radiology, Mosby-Year Book, Inc., pg. 15, 1994.]
9. Berg WA, Hruban RH, Kumar D, Singh HR, **Brem RF**, Gatewood OMB. Lessons from mammographic-histopathologic correlation of large core needle biopsy of nonpalpable breast lesions. RadioGraphics 1996;16:111.
 10. **Brem RF**, Lebovic G, Young VL, Schuster RH. Trilucent Breast Implants: Indications and Limitations. Perspectives in Plastic Surgery, 1997;10:105-135.
 11. Englander SA, Ulug AM, **Brem RF**, Glickson JD, van Zijl PCM. Diffusion Imaging of Human Breast. NMR in Biomed, 1997; 10:348-352.
 12. **Brem RF**, Gatewood OMB. Enhancement of Ductal Filling During Ductography. American Journal of Roentgenology, 1999; 172:163-164.
 13. Solomon SB, **Brem RF**. HIV Infection: Analysis of Mammographic Findings. The Breast Journal, 1999;5:112-115.
 14. **Brem RF**, Sanow L, Behrndt VS, Gatewood OMB. Reliability of Atypical Ductal Hyperplasia: Histologic Underestimation of Carcinoma in Tissue Harvested from Impalpable Breast Lesions Using 11-Gauge Sterotactically Guided Directional Vacuum-Assisted Biopsy. AJR American Journal of Roentgenology, 1999; 172: 1405-1407. (Quoted in Current Awareness in Biomedicine)
 15. **Brem, RF**. Breast Imaging. Journal of the National Cancer Institute, 1999;91:10.
 16. **Brem RF**, Gatewood OMB. Preoperative Needle Localization of Non Palpable Breast Lesions: Determination of Appropriate Needle Length. The Breast Journal, 1999; 5: 235-237.
 17. Behrndt VS, Barbakoff D, Askin FB, **Brem RF**. Infarcted Lactated Adenoma Presenting as a Rapidly Enlarging Breast Mass. American Journal of Roentgenology, 1999, 173:933-935.
 18. **Brem RF**, Askin FB, Gatewood OMB. Selection of Core Biopsy Specimens for Pathologic Evaluation of Targeted Microcalcifications. American Journal of Roentgenology, 1999,173:901-902.
 19. Barbakoff D, Gatewood OMB, **Brem RF**. Supplemental Views for Equivocal Mammographic Findings: A Pictorial Essay. The Breast Journal, 2000,6:34-43.
 20. Revelon GI, Gatewood OMB, Sherman M, **Brem RF**. Focal Fibrosis of the Breast: Imaging Characteristics and Pathologic Correlation. Radiology, 2000, 216:255-259.

21. Schoonjans J, **Brem RF**. Sonographic Appearance of Ductal Carcinoma in-Situ. J Ultrasound in Med 2000, 19: 449-457.
22. Shaffrey J, Gatewood OMB, Barbakoff D, **Brem RF**. Diabetic Mastopathy: Case Reports and Radiologic-Pathologic Correlation. The Breast Journal,2000, 6: 414-417.
23. Jackman RJ, Burbank F, Parker SH, Evans WP, Lechner MC, Richardson TR, Smid AA, Barofsky HB, Lee CH, Goldstein HM, Schilling KJ, Wray AB, **Brem RF**, Helbich TH, Lehrer DE, Adler SJ. Stereotactic Breast Biopsy of Nonpalpable Lesions: Determinants of Ductal-carcinoma-in-situ Underestimation Rates. Radiology, 2001, 218:497-502.
24. **Brem, RF.**, Schoonjans, J.M., Goodman, S.N., Nolten, A., Askin, F.B., Gatewood, O.M.B. Nonpalpable Breast Cancer: Percutaneous Diagnosis with 11- and 8-Gauge Sterotactic Vacuum-Assisted Biopsy Devices. Radiology 2001 219 (3) 793-796.
25. **Brem RF**, Schoonjans,J. Radiologist Detection of Microcalcifications Without and With Computer Aided Detection: A Comparative Study. Clinical Radiology 2001, 56:150-154.
26. **Brem RF**, Schoonjans JM, Gatewood OMB. Local Anesthesia in Stereotactic Breast Biopsy. The Breast Journal, 2001, 7:72-73.
27. **Brem RF**, Schoonjans JM, Askin FC, Sanow L, Richman A, Gatewood OMB. Reliability of Histologic Diagnosis of Breast Cancer with Stereotactic Vacuum-Assisted Biopsy. Am Surgeon,. 2001;67: 388-392.
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May	2005	Interview: Radiology Today, Molecular Breast Imaging
Sept	2005	Interview with Heme/Onc today, Computer Aided Detection and Histopathology of Cancer
Sept	2005	Interview and Article in The Examiner, Washington, DC "GW doctor takes on breast cancer"

Oct	2005	Channel 9 News, Washington, DC. "The New GW Mammovan" Live Interview
Oct	2005	Channel 4 New, NBC, Interview, "Your First Mammogram"
Oct	2005	Channel 4 News, Washington, DC, "The George Washington University Mobile Mammography Program."
June	2006	Silver Docs AFI/Discovery Channel Documentary Film Festival, Silver Spring, MD, invited expert commentator.
October	2006	Consultant, World News with Charles Gibson, Breast Specific Gamma Imaging, Susan Schwartz, Producer.
January	2007	House and Garden Magazine, Maryland and DC. Interview, Brem Foundation
January	2008	Capitol File Magazine, Article highlighting contributions to women's health
April	2008	NBC 4, Washington, DC, 5 pm Evening News: MRI and CAD in Breast Cancer Diagnosis
April	2008	Advance for Imaging and Oncology Administrators. The Impact of the NEJM study on CAD
Aug	2008	Reach MD XM Radio Interview. New Advances in Breast Cancer Diagnosis
Sept	2008	WJLA, ABC 7, Washington DC. Molecular Breast Imaging, comments on the recent NY Times article
Nov	2008	Interview, Aunt Minnie.com. BSGI and its role in detecting breast cancer.
Jan	2009	American Institute of Physics (AIP). Interview. New Technologies for the Detection of Breast Cancer.
Jan	2009	Interview, Imaging Technology News.
May	2009	Bottom Line- Women's Health News Letter. Interview: The significance of dense breasts
Nov	2009	The Early Show, CBS News. The New USPSTF Mammography Screening Recommendations
Nov	2009	WUSA 9. Interview with Andrea Roane. New Mammography

Screening Recommendation

- Nov 2009 WTOP Radio. The new Mammography Screening Recommendations
- Nov 2009 WUSA 9. Evening News. The New Mammography Recommendation. Impact on Patients
- March 2010 WJLA. Interview with Julie Parker. 3Dimensional Whole Breast Ultrasound Screening of Women with Dense Breasts. The Potential to Improve Breast Cancer Diagnosis
- October 2010 Broad Minded. Sirius 102, XM Radio 155. Interview. Breast Cancer Interview

CONGRESSIONAL PRESENTATIONS:

- Jun 1997 Senate Subcommittee Testimony, Washington, D.C. Mammography Quality Assurance Act
- Oct 1997 Breast Cancer Medical Technology for Women: Moving Towards the 21st Century. Congressional Caucus for Women's Issues, Washington, DC
- May 1998 Frontiers in Breast Imaging. Epidemiology of Medical Devices in Women Conference. Center for Devices and Radiological Health & the Food and Drug Administration. Office of Women's Health, Rockville, MD
- May 2009 Keeping Abreast of Trends in Mammography. Sponsored by Society of Women's Health Research and The American College of

Radiology.

Sep 2009 Congressional Reception to Support the EARLY ACT: Education and Awareness Requires Learning Young. HR 1740

SELECTED PRESENTATIONS:

- May 1995 Stereotactic Core Biopsy, Society of Breast Imaging, Orlando, Florida
- Nov 1995 Presentation: The History of Women in Radiology, American Association for Women Radiologists, RSNA, Chicago, IL
- May 1996 Current Concepts in Breast Cancer Management. Winchester Medical Center, Winchester, VA. Topic: Stereotactic Breast Biopsy: Will it Replace Surgical Biopsy?
- May 1996 Core Biopsy vs Surgical Biopsy, International Woman's Fair, Timonium, MD
- May 1996 The Diagnosis of Breast Cancer, International Woman's Fair, Timonium, MD
- June 1996 Breast Cancer New Developments - Panel Discussion. Johns Hopkins Medical Institutions, Baltimore, MD
- June 1996 Computer Aided Diagnosis of Breast Cancer: Preliminary Results of Clinical Trial. Radiology Grand Rounds. Johns Hopkins Hospital, Baltimore, MD
- Aug 1996 Current Issues in Breast Imaging. 38th Annual Emil Novak Memorial Course - Gynecological Pathology, Gynecology, Endocrinology and High Risk Obstetrics - Lecture, Baltimore, MD
- Sept 1996 Risk Factors, Genetics and Early Detection of Breast Cancer. Educational Program and Discussion. Department of Oncology Educational Program, Johns Hopkins Medical Institutions, Baltimore, MD
- Nov 1996 Topics in Oncology. New Approaches to Breast Imaging. Johns Hopkins Medical Institutions, Baltimore, MD

- Feb 1997 Percutaneous Breast Biopsy. Radiation Oncology Teacher Conference. John Hopkins Medical Institutions, Baltimore, MD
- Mar 1997 New Techniques in the Diagnosis of Breast Cancer. Young Presidents of Corporations, Johns Hopkins Hospital
- Mar 1997 Breast Implants and mammographic visualization of mass and microcalcifications: Comparison of Silicone filled and Triglyceride filled breast Implants. Radiology Grand Rounds. Johns Hopkins Medical Institutions, Baltimore, MD
- April 1997 Meet the Professor Luncheon Seminar. Diagnosis and Treatment of Neoplastic Disease. Johns Hopkins Medical Institutions, Baltimore, MD
- April 1997 Current Concepts in Breast Cancer Management. Stereotactic Breast Biopsy: Will it Replace Surgical Biopsy Medium? Grand Rounds. Winchester Medical Center, Winchester, VA
- May 1997 Beyond The Screening Mammogram. Mammography Association of Maryland, Baltimore, MD
- May 1997 New Technologies in the Diagnosis of Breast Cancer. Radiology Grand Rounds, Johns Hopkins Medical Institutions, Baltimore, MD
- June 1997 New Advances in Diagnosis of Breast Cancer. Johns Hopkins Radiology Biennial. Johns Hopkins Hospital
- June 1997 Percutaneous Breast Tissue Removal. Symposium on Minimally Invasive Breast Biopsy. US Surgical Corporation, Danbury, CT
- Sept 1997 The Imaging and Diagnosis of Breast Cancer. Breast Cancer Symposium Second Year Medical Student Pathophysiology Course. Johns Hopkins Medical Institutions, Baltimore, MD
- Sept 1997 New Developments in the Diagnosis and Imaging of Breast Cancer. Frontiers in Breast Cancer Research, Diagnosis, and Therapy. GeneQuest Infosystems, Washington, DC
- Oct 1997 New Developments in the Diagnosis of Breast Cancer. 39th Annual Emil Novak Memorial Course - Gynecological Pathology, Gynecology, Endocrinology and High Risk Obstetrics, Baltimore, MD
- Oct 1997 Educational Seminars in Mammography. Wellnet Employee

- Program. Johns Hopkins Medical Institutions, Baltimore, MD
- Nov 1997 Mammography and its Implications for Radiation Oncology. Radiation Oncology Teaching Conference. Johns Hopkins Medical Institutions, Baltimore, MD
- Oct 1997 Postgraduate Education in Oncology: Breast Cancer. Challenges of Contemporary Oncology. Breast Cancer Awareness Program for Poland, Krakow, Poland
- April 1998 Issues in Breast Imaging and Their Significance in Scintimammography. Mid-Eastern Chapter, SNM 28th Annual Meeting, Ocean City, MD
- May 1998 Breast Cancer: New Diagnostic Techniques. 4th Annual Women's Fair, Timonium, MD
- June 1998 New Diagnostic Techniques: New Radiological and Minimally Invasive Techniques. Early Detection Remains Your Best Chance of Surviving Breast Cancer. Johns Hopkins Medical Institutions, Baltimore, MD
- July 1998 Nuclear Medicine Imaging of the Breast. Medical/Surgical Grand Rounds. Montgomery General Hospital, Montgomery, MD
- Sept 1998 Breast Cancer: Second Year Pathophysiology Course. Johns Hopkins Medical Institutions, Baltimore, MD
- June 1998 Minimally Invasive Breast Biopsy & Intro-operative Lymphatic Mapping Symposium. United States Surgical Corporation, Norwalk, CT
- Sept 1998 Dupont Pharmaceuticals Company Medical Imaging Miralumna Advisory Panel, Boston, MA
- Oct 1998 Mammography Issues for the 90's-Specialized Mammography/Breast Imaging Symposium for Mammographers. GrandXray, Grand Rapids, Michigan
- Oct 1998 Diagnosing Breast Cancer Visiting Faculty Program. Dupont Pharmaceuticals Company, Boston, MA
- Aug 1998 Invited Consultant for Mammography Accreditation King Edward VII Memorial Hospital, Hamilton, Bermuda
- Sept 1998 Course Director, Percutaneous Breast Biopsy, Elancourt, France. Attended by radiologists and surgeons from France, Italy, Spain

and Belgium

- Oct 1998 Emerging Technologies in Breast Imaging, Percutaneous Breast Biopsy, and Imaging of Ductal Carcinoma In Situ. Fourth Annual Puerto Rico Breast Cancer Conference, Dorado, Puerto Rico
- Oct 1998 Confronting Your Risk of Breast Cancer, Breast Center Seminars, Johns Hopkins Medical Institutions
- Oct 1998 New Developments in Breast Imaging. 40th Annual Emil Novak Memorial Course – Gynecological Pathology, Gynecology, Endocrinology and High Risk Obstetrics, Baltimore, MD
- Feb 1999 Grand Rounds, Nuclear Medicine, Imaging of the Breast, Bayview Medical Center, Baltimore, Maryland
- March 1999 New Developments in Breast Imaging, OB/GYN Grand Rounds, Washington Hospital Center, Washington, DC.
- April 1999 Imaging of the Augmented Breast, Plastic Surgery Grand Rounds, Johns Hopkins Medical Institution, Baltimore, MD
- April 1999 Fundamentals of Breast Imaging, Division of Nuclear Medicine, Department of Radiology, Johns Hopkins Medical Institutions
- Sept 1999 Emerging Technologies in Breast Cancer Diagnosis, Oncology Tumor Board, Washington Hospital Center, Washington, DC
- Sept 1999 New Technology in Biopsying and Treating the Smallest Lesions, Seeking Excellence in Breast Cancer Care: Best Practices in Diagnosis and Treatment, Towson, MD
- Oct 1999 New Developments in Breast Cancer Diagnosis, Day of Caring for Breast Cancer Awareness, Timonium, MD
- Nov 1999 Read with the Experts: Mammoscintigraphy Workshop and Reading Sessions, Dupont Pharmaceuticals Baltimore, MD
- Dec 1999 Nuclear Medicine Imaging of the Breast: Clinical Utility, Tumor Board, Anne Arundel Medical Center, Annapolis, MD
- April 1999 Visiting Professor Department of Radiology, Hadassah Hospital Medical Center, Jerusalem, Israel
- Feb 1999 Radionuclide Imaging of the Breast, Visiting Scientist, Dupont Pharmaceuticals, Sawmill, Florida

- March 1999 BTI Group Meeting, Dupont Pharmaceuticals, Update on Nuclear Medicine Imaging of the Breast, San Diego, CA
- March 1999 BTI Group Meeting, Dupont Pharmaceuticals, High Risk Breast Cancer Patients and Their Management.
- April 1999 Detroit Nuclear Radiology Club, Pontiac Osteopathic Hospital, Breast Tumor Imaging, Detroit, Michigan
- May 1999 Optimizing the Clinical Utility of Mammoscintigraphy. High Mountain Radiology and Woman's Imaging Center, Hackensack, NJ
- Sept 1999 Percutaneous Breast Tissue Acquisition, Philadelphia Mammography Association, Philadelphia, PA
- Feb 2000 Mammoscintigraphy; Imaging of Ductal Carcinoma-In-Situ; Minimally Invasive Breast Tissue Acquisition and Case Conference. Snowmass 2000: Clinical Mammography, Educational Symposia, Snowmass, CO
- March 2000 New Developments in the Diagnosis of Breast Cancer, Horizon of Hope, Cincinnati, OH
- April 2000 Emerging Technologies in Breast Cancer Diagnosis, Case Managers Symposium, Cleveland, OH
- May 2000 Ductal Carcinoma-in-Situ, Minimally Invasive Breast Biopsy and Scintimammography, Fourth Annual Breast Imaging Update, University of South Florida Breast Cancer Conference, Key West, FL.
- Sept 2000 Emerging Technologies for Breast Cancer Diagnosis, Grand Rounds, Department of Surgery, The George Washington University Hospital, Washington, DC.
- Nov 2000 New Developments in Breast Cancer Diagnosis, The Karen Kimell Memorial Lecture, Department of Medicine, The George Washington University School of Medicine, Washington, DC
- Dec 2000 Nuclear Medicine Imaging of the Breast. Southeastern University Research Association, Washington, DC.
- May 2000 New Technologies for the Diagnosis of Breast Cancer, Sutter Cancer Center, Sacramento, CA

- May 2001 Fifth Annual Breast Imaging Update, University of South Florida Breast Cancer Conference, Key West, FL.
- Sept 2001 Breast Diagnosis Update: Imaging and Clinical Issues. Keynote Speaker, Park Nicollet Clinic, S. Louis Park, MN
- March 2001 New Developments in Breast Cancer Diagnosis, Pathology Grand Rounds, The George Washington University Medical Center, Washington, DC.
- March 2001 Breast Cancer: What New Research Is On The Horizon. International Breast Cancer Conference, Breast Cancer: The Global Perspective, The World Bank, Washington, DC.
- Nov 2001 Pathology Teaching Conference, The George Washington University Medical Center, Washington, DC. Vacuum-Assisted Breast Biopsy.
- Nov 2001 The Royal College of Radiology Breast Group, Eastbourne, Wales UK. Vacuum Assisted Breast Biopsy
- Nov 2001 The Royal College of Radiology Breast Group, Eastbourne, Wales UK. Imaging of Breast Implants
- Jan 2002 Computer Aided Detection in Breast Cancer Diagnosis. The Philadelphia Mammography Society, Philadelphia, PA.
- Apr 2002 Computer-Aided Detection for the earlier Diagnosis of Breast Cancer. Northeast Radiology, Danbury CT.
- April 2002 New Developments in Scintigraphic Breast Imaging, Society of Nuclear Medicine, Mid-Eastern Chapter, Ocean City, MD.
- May 2002 Computer Aided Detection for the Improved Detection of Breast Cancer, Northeast Radiology, White Plains, NY
- Jun 2002 Novel Approaches to Breast Cancer Diagnosis, for Women's Health: Issues and Controversies, School of Public Health and Health Services
- Sept 2002 Visiting Lecturer, National Cancer Institute, Epidemiology Branch, New Technologies for Breast Cancer Diagnosis: Controversies and Potential Impact with Molecular Biology
- Oct 2002 Research Colloquia, The George Washington University, Founders

- Weekend (University Wide Conference) New Technologies in Breast Cancer Diagnosis.
- Oct 2002 Ductal Lavage, Joint DC/MD ACR Annual Meeting, Washington, DC
- Oct 2002 Scintimammography, Joint DC/MD ACR Annual Meeting, Washington, DC
- Nov 2002 Computer-Aided Detection for Improved Diagnosis of Breast Cancer, New Britain General Hospital, New Britain, CT
- Oct 2002 Invited Lecturer, Bristol-Meyers-Squibb, How can We Improve Breast Cancer Diagnosis, Billerica, MA
- Nov 2002 The Use of Computer Aided Detection for Breast Cancer Diagnosis, New Britain General Hospital, New Britain, CT
- March 2003 Women's Health Congress, Washington, DC
- March 2003 Montgomery County Public Television, 2 one-half hour segments. New Developments in Breast Imaging
- March 2003 George Washington University Multi-Disciplinary Cancer Conference. New Approaches for the Improved Diagnosis of Breast Cancer, Washington, DC
- March 2003 Women In Technology, From Discovery to Commercial Success: Bringing Biotechnology Solutions to Market, Tysons Corner, VA
- April 2003 Computer Aided Detection, American Society of Breast Surgeons, Atlanta, GA, Invited Speaker
- May 2003 Six Annual University of South Florida Breast Imaging Update, Key West, FL," Computer Aided Detection" and "Imaging Ductal Carcinoma- in-Situ"
- May 2003 Scintimammography: The Comeback Kid, Mammography in the Next Millenium, Sante Fe, NM
- June 2003 Tumor Board, The George Washington University, MRI of the Breast
- October 2003 New Developments in Breast Cancer Diagnosis, The George Washington University Hospital,
- Nov 2003 Imaging Studies for Breast Cancer, Y-Me National Breast cancer

- Organization, National Capital Area
- Feb 2004 Clinical Mammography Symposium, ESI, Copper-Ridge Mountain, CO, invited faculty: Computer aided detection, Ductal carcinoma in situ, nuclear medicine imaging of the breast
- April 2004 Nuclear Medicine Imaging of the Breast, New York Roentgen Ray Society, NY, NY
- April, 2004 Computer Aided Detection for the Improved Diagnosis of Breast Cancer, New York Roentgen Ray Society, NY, NY
- June, 2004 Computer Aided Detection: Past , Present and Future. Radiology Grand Rounds, New Britain General Hospital, New Britain, CT
- March 2004 Being a Professional and a Woman: The Impact, Johns Hopkins University Hillel Women's Group, Baltimore, MD
- March 2004 Keynote Speaker, The Women's Health Congress, Washington, DC. Breast Cancer Diagnosis: What you need to know.
- May 2004 Radiology Board Review, Breast Imaging. Department of Radiology, The Johns Hopkins University Medical Institutions.
- Oct 2004 TriCat Women's Centers, Invited Lecture: Computer Aided Detection for the Improved Diagnosis of Breast Cancer, Methuchen, NJ.
- October 2004 Breast Specific Gamma Imaging: State of the Art, Dinner Conference at the Lynn Sage Breast Imaging Conference, Chicago, IL.
- October 2004 Optimal Gamma Imaging of the Breast: Clinical Indications and Considerations. IEEE, Workshop on Nuclear Medicine Imaging of the Breast, Rome, Italy.
- November 2004 Breast Imaging: MRI. Advances in Diagnostic and Therapeutic Imaging for Cancer. Inova Fairfax Hospital, Falls Church, VA.
- December 2004 Visiting Professor, Hadassah Medical Center, Jerusalem, Israel, "Molecular Imaging of the Breast"
- January 2005 Physiologic Imaging of the Breast, Philadelphia Mammography Society, Methodist Hospital, Philadelphia, PA
- January 2005 Featured Speaker, Deans Tea, School of Engineering and Applied Sciences, The George Washington University.

- February 2005 New Technologies for the Improved Diagnosis of Breast Cancer, Oncology Interest Group, The George Washington University School of Medicine
- March 2005 Magnetic Resonance Imaging of the Breast: District of Columbia Chapter, American College of Radiology, Washington, DC
- March 2005 Women in Medicine, How we do it all. Undergraduate Forum, Brandeis University, Waltham, MA
- April 2005 Seventh Annual University of South Florida Breast Imaging Update, Key West, FL, "Computer Aided Detection" and "Imaging Ductal Carcinoma- in-Situ"
- May 2005 Radiology Board Review, Breast Imaging, The Johns Hopkins Department of Radiology, Baltimore, MD.
- Oct 2005 Ob/Gyn Grand Rounds: New Technologies for Breast Cancer Diagnosis
- Oct 2005 Alumni Day, George Washington University School of Medicine, New Technologies in Breast Cancer Diagnosis
- Nov 2005 Radiology, Grand Rounds: Jefferson University School of Medicine. Molecular Breast Imaging
- Nov 2005 Medical Grand Rounds, Bradley Hospital, Connecticut
- Nov 2005 Medical Grand Rounds, New Britain Hospital, New Britain, Connecticut
- Feb 2006 Medical Student and Resident Education, Ob/Gyn, The George Washington University Medical Center
- March 2006 Oncology Grand Rounds, The George Washington University Medical Center, "Molecular Breast Imaging"
- March 2006 Endocrinology Grand Rounds, The George Washington University Medical Center, "New Techniques for Breast Cancer Diagnosis"
- Oct 2006 Breast Specific Gamma Imaging, The Northwestern Breast Conference, Chicago, IL
- Jan 2007 Physiological Imaging of the Breast. Grand Rounds, Maimonides Medical Center, Multi-Disciplinary Breast Conference, New York, NY

- Feb 2007 Visiting Professor, Department of Radiology, Georgetown University Medical Center, Radiology Grand Rounds, "Nuclear Medicine Imaging of the Breast".
- April 2007 Eighth Annual University of South Florida Breast Imaging Update, Key West, FL, "Computer Aided Detection" and "Imaging Ductal Carcinoma- in-Situ" and "Nuclear Medicine Imaging of the Breast"
- May 2007 Visiting Professor, Department of Radiology, University of Maryland Medical Center, Radiology Grand Rounds, "Nuclear Medicine Imaging of the Breast".
- May 2007 H. LEONARD WARRES, M.D. Lecturer, University of Maryland Medical Center, Baltimore, MD. "Breast Specific Gamma Imaging, a Novel Approach to Breast Cancer Diagnosis."
- May 2007 Visiting Professor, University of Florida, Shands Medical Center, Gainesville, FL "Breast-Specific Gamma Imaging: A Novel Approach to Breast Cancer Diagnosis."
- Sept 2007 Metropolitan Breast Group, Memorial Sloane Kettering Medical Center. New York, NY. "Breast Specific Gamma Imaging, a Novel Approach to Breast Cancer Diagnosis."
- Oct 2007 International Breast Imaging Conference, Northwestern University, Chicago Illinois. "Breast Specific Gamma Imaging, a Novel Approach to Breast Cancer Diagnosis."
- Feb 2008 The 13th Annual Multidisciplinary Symposium on Breast Disease, University of Florida, Amelia Island Florida. "Computer Aided Detection for the Diagnosis of Breast Cancer" and "Minimally Invasive Breast Biopsy"
- March 2008 The Stanford Department of Radiology 9th Annual Advanced Breast Imaging and Interventions. Las Vegas, NV, "Correlating Mammography, US, MRI and Nuclear Medicine Cases. "Nuclear Medicine Imaging and Integration to a FFDM/US Breast Center" and Needle Localization and Biopsy after a Positive Nuclear Medicine Exam"
- May 2008 Society for Women's Health Research Congressional Briefing, Mammography in the United States, Washington, DC
- Sept 2008 The Chicago International Breast Conference, Chicago, IL. Nuclear Medicine Imaging of the Breast and Computer Aided Detection.

- Sept 2008 University of Pennsylvania Breast and Body MRI, Washington, DC. Minimally Invasive Breast Biopsy, Nuclear Medicine Imaging of the Breast, Utilization of Breast MRI in Clinical Practice and Birads for Breast MRI
- Sept 2008 Presentation of Medical Advisory Panel, Philips Medical, Washington, DC, Nuclear Medicine Imaging of the Breast
- Nov 2008 Relationship between Industry and Academics. Refresher Course, RSNA 2008. Discussant and Panelist
- Nov 2008 Selection for Media Presentation: Invasive Lobular Carcinoma: Detection with Mammography, Ultrasound, MRI and BSGI. RSNA 2008
- Feb 2009 Visiting Professor, Mt Sinai School of Medicine, New York, NY. "New Approaches to the Improved Diagnosis of Breast Cancer"
- May 2009 Advances in Breast Health, "Breast MRI: Who, When , Why and How", Holy Cross Hospital, Silver Spring, MD
- May 2009 Invited speaker, Scientific Symposium, Columbia University College of Physicians and Surgeons, Reunion Weekend. " Breast Imaging Over the Past 25 Years"
- June 2009 Invited Speaker, Computer Aided Detection in Breast Cancer Diagnosis, CARS (Computer Assisted Radiology and Surgery), 23rd International Congress, Berlin, Germany
- June 2009 Director, US Israel Breast Imaging Update. Jerusalem, Israel. 8 Lectures
- Oct 2009 Virginia Oncology Associates, Norfolk , VA. Novel Physiologic Approaches to Breast Cancer Diagnosis.
- Oct 2009 Breast Multidisciplinary Conference, Sentara Hospital, Newport News, VA: Breast Specific Gamma Imaging, A Novel Approach to Breast Cancer Detection and Diagnosis.
- Oct 2009 Nuclear Medicine Imaging of the Breast: How When and Why and Computer Aided Detection in Breast Cancer Diagnosis: Now and the Future. Screening Mammography Forum 2009, University of British Columbia, Vancouver, Canada
- Oct 2009 The Wellness Community, Bethesda, MD. New Technologies for Breast Cancer Detection

- Oct 2009 Niners for a Cure, Kenwood Country Club, The GW Mammovan Program
- Nov 2009 Detroit Radiology Metropolitan Nuclear Radiology Club. "Breast Cancer Diagnosis and Interventions with Nuclear Imaging.
- Nov 2009 Visiting Professor, Lahey Clinic, Burlington, MA. Grand Rounds: Breast Specific Gamma Imaging. A Novel Approach to Breast Cancer Diagnosis
- Nov 2009 Media Interviews. Fox News, NBC, The Early Show (CBS), WTOP Radio. United States Preventative Services Task Force. New Mammography Guidelines.
- Dec 2009 Nuclear Medicine Imaging of the Breast: A Novel Approach to Breast Cancer Diagnosis and Computer Aided Detection of Breast Cancer. National Diagnostic Imaging Symposium, Orlando , FL
- Feb 2010 Congressional Families Cancer Prevention Program. Prevent Cancer Foundation, Washington, DC
- March 2010 Visiting Professor, Department of Radiology, Columbia Presbyterian Medical Center, New York, NY
- March 2010 Nuclear Medicine Imaging of the Breast. European College of Radiology, 2010, Vienna Austria
- March 2010 Frontiers in Women's Health: Hormones, Wine, Soy and Such. The Impact of Herbal supplements and Nutrition in Breast Cancer Risk., The George Washington University
- April 2010 Visiting Professor, Department of Radiology, University of California, San Diego. San Diego, CA
- June 2010 Visiting Professor, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA
- June 2010 Keynote Speaker, Biannual Meeting, Connecticut Radiological Society, New Haven, CT. Screening for Breast Cancer by Risk Stratification.
- Aug 2010 Oncology Grand Rounds, Monmouth Medical Center, West Longbranch, NJ. BSGI, A Novel Approach to Breast Cancer Detection
- Sept 2010 Physiologic Imaging of the Breast: New Approaches to Breast Cancer Detection, Philips Medical Imaging Symposium, Tel Aviv,

Israel

- Sept 2010 Molecular Imaging of The Breast: A Novel Approach to Breast Cancer Detection. Philips Medical Solutions. Haifa , Israel.
- Oct 2010 Breast Cancer Update. Northern Westchester Medical Center, BSGI: A novel approach to breast cancer diagnosis.
- Oct 2010 Computer Services Corporation, Falls Church, VA. Breast Cancer: What is New and What Can I do.
- (May 2011) Nuclear Medicine Grand Rounds, Nuclear Medicine Imaging of the Breast, Stanford University Medical Center, Palo Alto, CA
- (July 2011) Second US Israel Breast Imaging Update. Sheba Medical Center, Tel Hashomer, Israel.