

CURRICULUM VITAE

Joseph Geradts, M.D., M.A.

CURRENT POSITION

Clinical Professor, Department of Pathology, ECU Brody School of Medicine, Greenville, NC
Attending Pathologist, ECU Health Medical Center, Greenville, NC

Office Address: Department of Pathology at Mission Bay
University of California San Francisco
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San Francisco, CA 94143
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EDUCATION

**Secondary School/
Junior College:** Freiherr-vom-Stein-Gymnasium, Oberhausen, Germany (1970-79)
Abitur 1979 (School leaving examination)

Medical School: University of Regensburg, Germany (1979-81) (Pre-clinical only)

University of Tübingen, Germany (1981-82)

University of Cambridge Clinical School, England (1984-85)

University of Chicago Pritzker School of Medicine (1985-87)
M.D. 1987

Graduate School: University of California at Berkeley (1982-84)
M.A. (Endocrinology) 1984
(Dr. Satyabrata Nandi, Thesis Supervisor)

Postgraduate Training: 7/87 - 6/89: Internship and Residency in Anatomic Pathology
University of California San Francisco (UCSF)
Including Chief Residency, San Francisco General Hospital (1988)

7/89 - 6/90: Fellowship in Surgical Pathology
Stanford University Medical Center, CA

8/90 - 10/91: Postdoctoral Research Fellowship
National Cancer Institute - Navy Medical Oncology Branch,
Bethesda, MD
(Dr. John Minna, Research Supervisor)

PROFESSIONAL EXPERIENCE

Boards & Certifications:

Licensed Physician and Surgeon, Commonwealth of Massachusetts (265672), 2016 - 2018

Licensed Physician and Surgeon, State of California (G 065531), 1988 – 2002, 2017- present

Licensed Physician and Surgeon, State of Maryland (D42333), 1991 - 93

Licensed Physician and Surgeon, State of North Carolina (93-00702), 1993 – 98, 2005 - present

Licensed Physician and Surgeon, State of New York (221876), 2001 - 2006

Full Registration, General Medical Council (U.K.), 1998 - 2001

Diplomat, National Board of Medical Examiners, 1988

Diplomat, American Board of Pathology, 1991 (Anatomic Pathology)
Voluntary Recertification 1/1/2014

Specialist Registration in Histopathology (U.K.), 1998

Certificate of Qualification in Histopathology, State of New York, 2001-2005

NPI # 1073519393

Industry Experience: 12/14 - 2/16: Head of Molecular Pathology in Oncology
AstraZeneca Pharmaceuticals
Cambridge, England

Clinical Appointments:

- 2/24 – now: Attending Surgical Pathologist
UCSF Medical Center at Mission Bay
San Francisco, CA
- 6/20 – 2/24: Attending Surgical Pathologist
ECU Health Medical Center
Greenville, NC
- 4/18 – 1/20: Medical Staff
Department of Pathology
City of Hope National Medical Center
Duarte, CA
- 3/16 – 9/17: Senior Pathologist
Brigham and Women's Hospital and Dana-
Farber Cancer Institute
Boston, MA
- 8/05 – 12/14: Attending Surgical Pathologist
Duke University Medical Center
Durham, NC
- 8/01 – 7/05: Attending Pathologist
Roswell Park Cancer Institute
Buffalo, NY
- 10/98 - 8/01: Honorary Consultant in Histopathology
John Radcliffe Hospital
Oxford, U.K.
- 8/93 - 9/98: Attending Surgical Pathologist
University of North Carolina Hospitals
Chapel Hill, NC
- 6/92 - 6/93: Staff Pathologist
Molecular Oncology Inc.
Gaithersburg, MD
- 10/91 - 5/92: Pathologist
Frederick Memorial Hospital
Frederick, MD

Diagnostic Expertise:

Surgical Pathology
Breast Pathology
Prognostic and Predictive Tumor Markers
Digital Image Analysis

Academic Appointments:

- 2/24 – now: Professor of Pathology
University of California San Francisco
San Francisco, CA
- 6/20 – 2/24: Clinical Professor of Pathology
East Carolina University School of Medicine
Greenville, NC
- 9/17 – 12/19: Clinical Professor
Department of Population Sciences
Beckman Research Institute at City of Hope
Duarte, CA
- 3/16 – 9/17: Member of the Faculty of Pathology
Harvard Medical School
Boston, MA
- 1/15 – now: Adjunct Professor of Pathology
Duke University School of Medicine
Durham, NC
- 8/05 – 12/14: Full Professor of Pathology (with tenure)
Duke University School of Medicine
Durham, NC
- 11/02 – 7/05: Associate Research Professor
Department of Cancer Pathology and Prevention
Roswell Park Graduate Division, University at
Buffalo (SUNY)
Buffalo, NY
- 4/02 – 7/05: Associate Professor of Clinical Pathology &
Anatomical Sciences (Geographic Full Time)
Department of Pathology and Anatomical Sciences
University at Buffalo (SUNY)
Buffalo, NY
- 8/01 – 7/05: Staff Physician (Professor of Pathology) and
Clinical Member, Cancer Genetics Program
Roswell Park Cancer Institute
Buffalo, NY
- 9/98 – 8/01: Clinical Reader in Pathology
Nuffield Department of Clinical Laboratory Sciences
University of Oxford, U.K.
- 8/93 - 8/98: Assistant Professor of Pathology
Department of Pathology and Laboratory Medicine

University of North Carolina at Chapel Hill

- Awards & Honors:**
- 1982 Fulbright Travel Fellowship (UC Berkeley)
 - 1983 Kaiser Fellowship (UC Berkeley)
 - 1984 German Academic Exchange Service (DAAD) Scholarship
(Cambridge University, England)
 - 1986 Calvin Fentress Research Fellowship Award (University of
Chicago)

- Patents:**
1. “Methods of Subclassification of Ductal Carcinoma In Situ of the Breast” (Inventor)
Application submitted to U.S. Patent Office, March 2015
(PCT/US09/67722)
 2. “Methods, Systems, and Computer Readable Media for Image Analysis with Deep Learning to Predict Breast Cancer Grade, Estrogen Receptor (ER) Status, Histologic Subtype, and Intrinsic Subtype” (Co-Inventor)
Provisional application submitted to U.S. Patent Office,
November 2018 (62/757,746)

PUBLICATIONS**1. Peer-reviewed Publications**

1. J Geradts, J Richards, M Edery, K Pang, L Larson, S Nandi: Heterogeneity in the Hormone Responsiveness of Clones Derived from the 13762NF Rat Mammary Tumor. *Cancer Res.* 46: 1920-27, 1986
2. AG Montag, J Geradts, PK Hui, WA Franklin: Limited Expression of Myeloid Antigens by Neuroendocrine Tumours of Lung. *Lung Cancer* 4: 55-57, 1988
3. J Geradts, M Warnock, TSB Yen: Use of the Polymerase Chain Reaction in the Diagnosis of Unsuspected Herpes Simplex Viral Pneumonia : Report of a Case. *Hum. Pathol.* 21: 118-21, 1990
4. RA Kratzke, E Shimizu, J Geradts, J Gerster, S Segal, GA Otterson, FJ Kaye: RB-Mediated Tumor Suppression of a Lung Cancer Cell Line Is Abrogated by an Extract Enriched in Extracellular Matrix. *Cell Growth & Differentiation* 4: 629-35, 1993
5. J Geradts, J-Y Chen, EK Russell, JR Yankaskas, L Nieves, JD Minna: Human Lung Cancer Cell Lines Exhibit Resistance to Retinoic Acid Treatment. *Cell Growth & Differentiation* 4: 799-809, 1993

6. RA Kratzke, GA Otterson, AB Coxon, J Geradts, FJ Kaye: Incomplete Penetrance of Retinoblastoma and Benign Retinal Lesions Associated with Partial Inactivation of the RB Protein. *Oncogene* 9: 1321-6, 1994
7. S-F Wen, M Nodelman, K Nareed-Hood, J Duncan, J Geradts, HM Shepard: Retinoblastoma Protein Monoclonal Antibodies with Novel Characteristics. *J. Immunol. Methods* 169: 231-40, 1994
8. J Geradts, S-X Hu, CE Lincoln, WF Benedict, H-J Xu: Aberrant RB Gene Expression in Routinely Processed, Archival Tumor Tissues Determined by Three Different Anti-RB Antibodies. *Int. J. Cancer* 58: 161-7, 1994
9. RR Taylor, RI Linnoila, J Geradts, MG Teneriello, JD Nash, RC Park, MJ Birrer: Abnormal Expression of the Retinoblastoma Gene in Ovarian Neoplasms and Correlation to p53 and K-ras Mutations. *Gynecol. Oncol.* 58: 307-11, 1995
10. B Newman, PG Moorman, R Millikan, BF Qaqish, J Geradts, TE Aldrich, ET Liu: The Carolina Breast Cancer Study: Integrating Population-Based Epidemiology and Molecular Biology. *Breast Cancer Res. Treat.*35: 51-60, 1995
11. R Millikan, L Dressler, J Geradts, M Graham: The Need for Epidemiologic Studies of In-situ Carcinoma of the Breast. *Breast Cancer Res. Treat.*35: 65-77, 1995
12. J Geradts: Immunohistochemischer Nachweis von normalem und mutiertem Retinoblastomprotein in Paraffinschnitten: Anti-RB monoklonale Antikörper unterscheiden sich in Sensitivität und Spezifität. *Verh. Dtsch. Ges. Path.* 79: 512-3, 1995
13. J Geradts, RA Kratzke, GA Niehans, CE Lincoln: Immunohistochemical Detection of the Cyclin-dependent Kinase Inhibitor 2/Multiple Tumor Suppressor Gene 1 (CDKN2/MTS1) Product p16^{INK4A} in Archival Human Solid Tumors: Correlation with Retinoblastoma Protein Expression. *Cancer Res.* 55: 6006-11, 1995
14. RA Kratzke, GA Otterson, CE Lincoln, S Ewing, H Oie, J Geradts, FJ Kaye: Immunohistochemical Analysis of the p16^{INK4} Cyclin Dependent Kinase Inhibitor in Malignant Mesothelioma. *J. Natl. Cancer Inst.* 87: 1870-5, 1995
15. L Huang, D Lang, J Geradts, T Obara, AJP Klein-Szanto, HT Lynch, BA Ruggeri: Molecular and Immunochemical Analyses of RB1 and Cyclin D1 in Human Ductal Pancreatic Carcinomas and Cell lines. *Mol. Carcinogen.* 15: 85-95, 1996
16. J Geradts, RA Kratzke, S Crush-Stanton, S-F Wen, CE Lincoln: Wild-Type and Mutant Retinoblastoma Protein in Paraffin Sections. *Modern Path.* 9: 339-47, 1996
17. J Geradts , PA Wilson: High Frequency of Aberrant p16^{INK4A} Expression in Human Breast Cancer. *Am. J. Pathol.* 149: 15-20, 1996

18. RA Kratzke, TM Greatens, JB Rubins, MA Maddaus, DE Niewohner, GA Niehans, J Geradts: Rb and p16^{INK4A} Expression in Resected Non-Small Cell Lung Tumors. *Cancer Res.* 56: 3415-20, 1996
19. MF Parker, GF Arroyo, J Geradts, AL Sabichi, RC Park, RR Taylor, MJ Birrer: Molecular Characterization of Adenocarcinoma of the Cervix. *Gynecol. Oncol.* 64: 242-51, 1997
20. M Schutte, RH Hruban, J Geradts, R Maynard, W Hilgers, SK Rabindran, CA Moskaluk, SA Hahn, I Schwarte-Waldhoff, W Schmiegel, SB Baylin, SE Kern, JG Herman: Abrogation of the RB/p16 Tumor-Suppressive Pathway in Virtually All Pancreatic Carcinomas. *Cancer Res.* 57: 3126-30, 1997
21. JA Cohen, J Geradts: Loss of RB and MTS1/CDKN2 (p16) Expression in Human Sarcomas. *Hum. Pathol.* 28: 893-8, 1997
22. GA Otterson, GH Xiao, J Geradts, F Jin, W Chen, W Niklinska, FJ Kaye, RS Yeung: Protein Expression and Functional Analysis of the FHIT Gene in Human Tumor Cells. *J. Natl. Cancer Inst.* 90: 426-32, 1998
23. ML Gulley, JM Nicholls, BG Schneider, MB Amin, JY Ro, J Geradts: Nasopharyngeal Carcinomas Frequently Lack the p16^{INK4A} Tumor Suppressor Protein But Consistently Express the Retinoblastoma Gene Product. *Am. J. Pathol.* 152: 865-9, 1998
24. J Geradts, JW Andriko, SL Abbondanzo: Loss of Tumor Suppressor Gene Expression in High-Grade But Not Low-Grade Non-Hodgkin's Lymphomas. *Am. J. Clin. Pathol.* 109: 669-74, 1998
25. SP Frizelle, J Grim, DT Curiel, J Geradts, RA Kratzke: Re-expression of p16^{INK4a} in Mesothelioma Cells Results in Cell Cycle Arrest, Cell Death, and Tumor Suppression. *Oncogene* 16: 3087-95, 1998
26. RE Wilentz, J Geradts, R Maynard, GJA Offerhaus, M Kang, M Goggins, CJ Yeo, SE Kern, RH Hruban: Inactivation of the p16(INK4A) Tumor-Suppressor Gene in Pancreatic Duct Lesions: Loss of Intranuclear Expression. *Cancer Res.* 58: 4740-4, 1998
27. AB Coxon, JM Ward, GA Otterson, J Geradts, SN Khleif, W Chen, M Zajac-Kaye, FJ Kaye: RET Cooperates with RB/p53 Inactivation in a Multi-step Model for Murine Thyroid Cancer. *Oncogene* 17: 1625-8, 1998
28. J Geradts, KM Fong, PV Zimmerman, R Maynard, JD Minna: Correlation of Abnormalities of RB, p16, and p53 Expression With 3p Loss of Heterozygosity, Other Genetic Abnormalities and Clinical Features in 103 Primary Non-Small Cell Lung Cancers. *Clin. Cancer Res.* 5: 791-800, 1999
29. GA Niehans, RA Kratzke, MK Froberg, DM Aeppli, PL Nguyen, J Geradts: G1 Checkpoint Protein and p53 Abnormalities Occur in Most Invasive Transitional Cell Carcinomas of the Urinary Bladder. *Br. J. Cancer* 80: 1175-84, 1999

30. J Geradts, R Maynard, MJ Birrer, D Hendricks, SL Abbondanzo, KM Fong, JC Barrett, DP Lombardi: Frequent Loss of KAI1 Expression in Squamous and Lymphoid Neoplasms: An Immunohistochemical Study of Archival Tissues. *Am. J. Pathol.* 154: 1665-71, 1999
31. MJ Birrer, D Hendricks, J Farley, MJ Sundborg, T Bonome, MJ Walts, J Geradts: Abnormal Fhit Expression in Malignant and Premalignant Lesions of the Cervix. *Cancer Res.* 59: 5270-4, 1999
32. DP Lombardi, J Geradts, JF Foley, C Chiao, PW Lamb, JC Barrett: Loss of KAI1 Expression in the Progression of Colorectal Cancer. *Cancer Res.* 59: 5724-31, 1999
33. PA Gehrig, L Van Le, B Olatidoye, J Geradts: Estrogen Receptor Status by Immunohistochemistry as a Predictor of Recurrence in Stage I Endometrial Carcinoma. *Cancer* 86: 2083-9, 1999
34. LG Dressler, J Geradts, M Burroughs, D Cowan, RA Millikan, B Newman: Policy Guidelines for the Utilization of Formalin-fixed, Paraffin-embedded Tissue Sections: The UNC SPORE Experience. *Breast Cancer Res. Treat.* 58: 31-9, 1999
35. W Chen, J Geradts, MM Keane, S Lipkowitz, M Zajac-Kaye, FJ Kaye: The 100 kDa Proteolytic Fragment of RB is Retained Predominantly Within the Nuclear Compartment of Apoptotic Cells. *Mol. Cell Biol. Res. Comm.* 1: 216-20, 1999
36. BG Schneider, ML Gulley, P Eagan, JC Bravo, R Mera, J Geradts: Loss of p16/CDKN2A Tumor Suppressor Protein in Gastric Adenocarcinoma Is Associated with Epstein-Barr Virus and Anatomic Location in the Body of the Stomach. *Human Pathol.* 31: 45-50, 2000
37. J Geradts, KM Fong, PV Zimmerman, JD Minna: Loss of Fhit Expression in Non-small Cell Lung Cancer: Correlation with Molecular Genetic Abnormalities and Clinico-Pathological Features. *Br. J. Cancer* 82: 1191-7, 2000
38. ED Pisano, RE Johnston, D Chapman, J Geradts, MV Iacocca, CA Livasy, DB Washburn, DE Sayers, Z Zhong, MZ Kiss, WC Thomlinson: Human Breast Cancer Specimens: Diffraction-Enhanced Imaging with Histologic Correlation - Improved Conspicuity of Lesion Detail Compared with Digital Radiography. *Radiology* 414: 895-901, 2000
39. W Hilgers, BG Koerkamp, J Geradts, DJ Tang, CJ Yeo, RH Hruban, SE Kern: Genomic FHIT Alterations in RER+ and RER- Adenocarcinomas of the Pancreas. *Genes Chromos. Cancer* 27: 239-43, 2000
40. J Geradts, RH Hruban, M Schutte, SE Kern, R Maynard: Immunohistochemical p16^{INK4a} Analysis of Archival Tumors with Deletion, Hypermethylation, or Mutation of the CDKN2/MTS1 Gene: A Comparison of Four Commercial Antibodies. *Appl. Immunohistochem. & Mol. Morphol.* 8: 71-9, 2000
41. MJ Schmitz, DT Hendricks, J Farley, RR Taylor, J Geradts, GS Rose, MJ Birrer: p27 and Cyclin D1 Abnormalities in Uterine Papillary Serous Carcinoma. *Gynecol. Oncol.* 77: 439-45, 2000

42. II Wistuba, GE Tomlinson, C Behrens, J Geradts, JL Blum, JD Minna, AF Gazdar: Two Identical Triplet Sisters Carrying a Germ-line BRCA1 Gene Mutation Acquire Very Similar Breast Cancer Somatic Mutation at Multiple Other Sites Throughout the Genome. *Genes Chromos. Cancer* 28: 359-69, 2000
43. J Geradts, CD Ingram: Abnormal Expression of Cell Cycle Regulatory Proteins in Ductal and Lobular Carcinomas of the Breast. *Mod. Pathol.* 13: 945-53, 2000
44. S Zöchbauer-Müller, KM Fong, AK Virmani, J Geradts, AF Gazdar, JD Minna: Aberrant Promoter Methylation of Multiple Genes in Non-Small Cell Lung Cancers. *Cancer Res.* 61: 249-55, 2001
45. A Maitra, H Roberts, AG Weinberg, J Geradts: Loss of p16^{INK4a} Expression Correlates With Decreased Survival in Pediatric Osteosarcomas. *Int. J. Cancer* 95: 34-8, 2001
46. AJ Creager, JA Cohen, J Geradts: Abrogation of Cell Cycle Control in Human Mesenchymal Neoplasia. *Cancer Detect. Prev.* 25: 123-31, 2001
47. S Zöchbauer-Müller, KM Fong, A Maitra, S Lam, J Geradts, AK Virmani, S Milchgrub, AF Gazdar, JD Minna: 5'CpG Island Methylation of the *FHIT* Gene Is Correlated with Loss of Gene Expression in Lung and Breast Cancer. *Cancer Res.* 61: 3581-5, 2001
48. A Maitra, H Roberts, AG Weinberg, J Geradts: Aberrant Expression of Tumor Suppressor Proteins in the Ewing Family of Tumors. *Arch. Pathol. Lab. Med.* 125: 1207-12, 2001
49. H Furberg, R Millikan, L Dressler, B Newman, J Geradts: Tumor Characteristics in African American and White Women. *Breast Cancer Res. Treat.* 68: 33-43, 2001
50. J Geradts, RE Wilentz, H Roberts: Immunohistochemical Detection of the Alternate *INK4a*-Encoded Tumor Suppressor Protein p14^{ARF} in Archival Human Cancers and Cell Lines Using Commercial Antibodies: Correlation with p16^{INK4a} Expression. *Mod. Pathol.* 14: 1162-8, 2001
51. W Boecker, H Buerger, K Schmitz, IA Ellis, PJ van Diest, HP Sinn, J Geradts, R Diallo, C Poremba, H Herbst: Intraductal Epithelial Proliferations of the Breast: Comparative Genomic Hybridisation and High Molecular Weight Cytokeratin Expression Patterns. *J. Pathol.* 195: 415-21, 2001
52. K Conway, SN Edmiston, L Cui, SS Drouin, J Pang, C-K Tse, J Geradts, L Dressler, ET Liu, R Millikan, B Newman: The Prevalence and Spectrum of p53 Mutations Associated with Smoking in Breast Cancer. *Cancer Res.* 62: 1987-95, 2002
53. H Furberg, R Millikan, J Geradts, MD Gammon, LG Dressler, CB Ambrosone, B Newman: Environmental Factors in Relation to Breast Cancer Characterized by p53 Protein Expression. *Cancer Epi. Biomark. Prev.* 11: 829-35, 2002

54. QN Vo, J Geradts, ML Gulley, DA Boudreau, JC Bravo, BG Schneider: Epstein Barr Virus in Gastric Adenocarcinomas: Association with Ethnicity and CDKN2A Promoter Methylation. *J. Clin. Pathol.* 55: 669-75, 2002
55. KS Wilson, H Roberts, R Leek, AL Harris, J Geradts: Differential Gene Expression Patterns in HER2/*neu*-Positive and –Negative Breast Cancer Cell Lines and Tissues. *Am. J. Pathol.* 161: 1171-85, 2002
56. QN Vo, J Geradts, DA Boudreau, JC Bravo, BG Schneider: CDKN2A Promoter Methylation in Gastric Adenocarcinomas: Clinical Variables. *Human Pathol.* 33: 1200-4, 2002
57. AV Parwani, J Geradts, E Caspers, J Offerhaus, CJ Yoo, JL Cameron, RH Hruban, P Argani: Genetic and Immunohistochemical Analysis of Gallbladder Carcinoma and Precursor Lesions. *Mod. Pathol.* 16: 299-308, 2003
58. R Millikan, A Eaton, K Worley, L Biscocho, E Hodgson, W-Y Huang, J Geradts, M Iacocca, D Cowan, K Conway, L Dressler: HER2 Codon 655 Polymorphism and Risk of Breast Cancer in African Americans and Whites. *Breast Cancer Res. Treat.* 79: 355-64, 2003
59. DE Hansel, A Rahman, M Hidalgo, PJ Thuluvath, KD Lillemoe, R Shulick, J-L Ku, J-G Park, K Miyazaki, R Ashfaq, II Wistuba, R Varma, L Hawthorn, J Geradts, P Argani, A Maitra: Identification of Novel Cellular Targets in Biliary Tract Cancers Using Global Gene Expression Technology. *Am. J. Pathol.* 163: 217-29, 2003
60. AH Furberg, RC Millikan, J Geradts, MD Gammon, LG Dressler, CB Ambrosone, B Newman: Reproductive Factors and Personal Characteristics in Relation to Breast Cancer Characterized by p53 Protein Expression. *Cancer Causes Control* 14: 609-18, 2003
61. C Rosty, J Geradts, N Sato, RE Wilentz, H Roberts, T Sohn, JL Cameron, CJ Yeo, RH Hruban, M Goggins: p16 Inactivation in Pancreatic Intraepithelial Neoplasias (PanINs) Arising in Patients with Chronic Pancreatitis. *Am. J. Surg. Pathol.* 27: 1495-1501, 2003
62. PC Stomper, J Geradts, SB Edge, EG Levine: Mammographic Predictors of the Presence and Size of Invasive Carcinomas Associated with Malignant Microcalcification Lesions without a Mass. *Am. J. Radiol.* 181: 1679-84, 2003
63. A Maitra, DE Hansel, R Ashfaq, A Rahman, A Naji, S Deng, J Geradts, L Hawthorn, MG House, CJ Yeo: Global Expression Analysis of Well Differentiated Pancreatic Endocrine Neoplasms Using Oligonucleotide Microarrays. *Clin. Cancer Res.* 9: 5988-95, 2003
64. V Bhagat, M Javle, J Geradts: Carcinoma of the Esophagus with Mixed Basaloid Squamous and Glandular Differentiation: A Distinct Histological Presentation. *Int. J. GI Cancer* 34: 139-42, 2003
65. JS Winston, J Geradts, DF Liu, PC Stomper: Microtome Shaving Radiography: Demonstration of Loss of Mammographic Microcalcification During Histologic Sectioning. *Breast J.* 10: 200-3, 2004

66. N Wilkinson, J Black, E Roukhadze, D Driscoll, S Smiley, H Hisakazu, J Geradts, M Javle, M Brattain: Epidermal Growth Factor Receptor Expression Correlates with Histologic Grade in Resected Esophageal Adenocarcinoma. *J. GI Surg.* 8: 448-53, 2004
67. J Yang, D Tan, HL Asch, H Swede, G Bepler, J Geradts, KB Moysich: Adverse Prognostic Effect of Intra-tumor Heterogeneous Gelsolin Expression in Non-small Cell Lung Cancer. *Lung Cancer* 46: 29-42, 2004
68. H Huang, J Groth, L Hawthorn, S Beall, J Geradts: Aberrant Expression of Novel and Previously Described Cell Membrane Markers in Human Breast Cancer Cell Lines and Tumors. *Clin. Cancer Res.* 11: 4357-64, 2005
69. KK Singh, M Kulawiec, I Still, MM Desouki, J Geradts, S Matsui: Inter-Genomic Cross Talk between Mitochondria and the Nucleus Plays an Important Role in Tumorigenesis. *Gene* 354: 140-6, 2005
70. AL Lark, CA Livasy, L Dressler, DT Moore, RC Millikan, J Geradts, M Iacocca, D Cowan, D Little, R Craven, W Cance: High Focal Adhesion Kinase (FAK) Expression in Invasive Breast Carcinomas Is Associated with an Aggressive Phenotype. *Mod. Pathol.* 18: 1289-94, 2005
71. S Zöchbauer-Müller, KM Fong, J Geradts, X Xu, S Seidl, M Peyton, A End-Pfützenreuter, G Lang, CC Zielinski, AF Gazdar, JD Minna: Expression of the Candidate Tumor Suppressor Gene hSRBC Is Frequently Lost in Primary Lung Cancers with and without DNA Methylation. *Oncogene* 24: 6249-55, 2005
72. E Bush, J Geradts, T O'Connor: An Unusual Case of Cholecystitis? *Am. J. Clin. Oncol.* 28: 529-30, 2005
73. G Varma, R Varma, H Huang, A Pryshchepava, J Groth, D Fleming, N Nowak, D McQuaid, J Conroy, M Mahoney, K Moysich, K Falkner, J Geradts: Array CGH Analysis of Premenopausal Breast Cancers from a Nuclear Fallout Area and Matched Cases from Western New York. *Br. J. Cancer* 93: 699-708, 2005
74. V Watwe, M Javle, D Lawrence, J Groth, R Iyer, D El-Hajjar, J Geradts: Cyclooxygenase-2 (COX-2) Levels Before and After Chemoradiotherapy: A Study in Rectal Cancer. *Am. J. Clin. Oncol.* 28: 560-4, 2005
75. K Conway, E Parrish, SN Edmiston, D Tolbert, CK Tse, J Geradts, CA Livasy, H Singh, B Newman, RC Millikan: The Estrogen Receptor Alpha A908G (K303R) Mutation Occurs at a Low Frequency in Invasive Breast Tumors: Results from a Population-Based Study. *Breast Cancer Res.* 7: 871-80, 2005
76. LA Carey, CM Perou, CA Livasy, LG Dressler, K Conway-Dorsey, G Karaca, D Cowan, M Troester, CK Tse, S Edmiston, SL Deming, J Geradts, MCU Cheang, TO Nielsen, PG Norman, HS Earp, RC Millikan: Race, Breast Cancer Subtypes, and Survival in the Carolina Breast Cancer Study. *JAMA* 295: 2492-502, 2006

77. J Yang, N Ramnath, KB Moysich, HL Asch, H Swede, SL Alrawi, J Huberman, J Geradts, JS Brooks, D Tan: Prognostic Significance of MCM2, Ki-67 and Gelsolin in Non-Small Cell Lung Cancer. *BMC Cancer* 6: 203-10, 2006
78. MM Javle, J Yu, T Khoury, KC Chadha, CM LeVea, R Iyer, JF Gibbs, J Geradts, JD Black, MG Brattain: Akt Expression May Predict Favorable Prognosis in Cholangiocarcinoma. *J. Gastroenterol. Hepatol.* 21: 1744-51, 2006
79. G Heller, J Geradts, B Ziegler, I Newsham, M Filipits, E-M Markis-Ritzinger, D Kandioler, W Berger, W Stiglbauer, D Depitsch, R Pirker, CC Zielinski, S Zöchbauer-Müller: Downregulation of TSLC1 and DAL-1 Expression Occurs Frequently in Breast Cancer. *Breast Cancer Res. Treat.* 103: 283-91, 2007
80. H Huang, K Sossey-Alaoui, SH Beachy, J Geradts: The Tetraspanin Superfamily Member NET-6 Is a New Tumor Suppressor Gene. *J Cancer Res. Clin. Oncol.* 133: 761-9, 2007
81. AK Sood, R Saxena, J Groth, M Desouki, C Cheewakriangkrai, KJ Rodabaugh, J Geradts: PDEF: Expression Characteristics of Prostate-Derived Ets Factor Support a Role in Breast and Prostate Cancer Progression. *Human Pathol.* 38: 1628-38, 2007
82. M Desouki, J Geradts, R Franklin, L Costello: hZIP2 and hZIP3 Zinc Transporters Are Down Regulated in Human Prostate Adenocarcinomatous Glands. *Molecular Cancer* 6: 37ff, 2007
83. RC Millikan, B Newman, CK Tse, PG Moorman, K Conway, LG Dressler, LV Smith, MH Labbok, J Geradts, JT Bensen, S Jackson, S Nyante, C Livasy, L Carey, HS Earp, CM Perou: Epidemiology of Basal-Like Breast Cancer. *Breast Cancer Res. Treat.* 109: 123-39, 2008
84. S Harvey, S Kohga, SN Sait, G Markus, TC Hurd, M Martinick, J Geradts, R Saxena, JF Gibbs: Co-Expression of Urokinase With Haptoglobin in Human Carcinomas. *J. Surg. Res.* 152: 189-97, 2009
85. JQ Brown, LG Wilke, J Geradts, SA Kennedy, GM Palmer, N Ramanujam: Quantitative Optical Spectroscopy: A Robust Tool for Direct Measurement of Breast Cancer Vascular Oxygenation and Total Hemoglobin Content *In Vivo*. *Cancer Res.* 69: 2919-26, 2009
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2. Manuscripts Under Review

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2. P Manescu, J Geradts, D Fernandez-Reyes: Deep Learning-Based Detection of Morphological Features Associated with Hypoxia in H&E Breast Cancer Whole Slide Images.

3. Book Chapters, Invited Reviews and Letters

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95. CB Hutchinson, RC Dash, RC Bentley, JA Olson and J Geradts: Novel Approaches to Breast Tissue Banking: The Duke Breast SPORE Experience. Presented at the 97th Annual Meeting of the United States and Canadian Academy of Pathology, 2008, in Mod. Pathol. 21 Suppl. 1: 38A-39A, 2008

96. MM Desouki, DJ Wolff, J Geradts and SE Self: HER2/neu, Estrogen Receptor and Progesterone Receptor Status in Primary Breast Carcinomas and Paired Axillary Lymph Node Metastases. Presented at the 97th Annual Meeting of the United States and Canadian Academy of Pathology, in Mod. Pathol. 21 Suppl. 1: 28A, 2008
97. M Desouki, D Gaile, L Shepherd, D McQuaid, N Nowak, J Conroy, S Liao and J Geradts: DNA Copy Number Changes Associated with Progression from In Situ to Invasive Ductal Carcinoma of the Breast. Presented at the 99th Annual Meeting of the American Association for Cancer Research, 2008 (Poster presentation by JG)
98. J Geradts, R Bentley, B Hutchinson, J Olson and R Dash: Use of Frozen Breast Tissues for Molecular Studies: The Importance of Pathologic Verification. Presented at the 99th Annual Meeting of the American Association for Cancer Research, 2008 (Poster presentation by JG)
99. WT Barry, M Datto, J Geradts, T Foster, J Olson, HK Dressman, A Potti, JR Nevins, G Ginsburg and PK Marcom: Genomic-Based Signatures of Chemosensitivity and ER/HER2 Status in Biologic Replicate Breast Cancer Samples. Presented at the Annual ASCO Meeting, 2008
100. T Schroeder, K Kennedy, J Geradts, D Brizel and MW Dewhirst: Glycogen Formation in Human Head and Neck Cancer Is Correlated with Hypoxia and High Intervascular Distance. Presented at the Annual Meeting of the Radiation Research Society, 2008
101. S Liao, DP Gaile, L Shepherd, M Desouki and J Geradts: Identification of New Breast Cancer Candidate Genes Associated with Stromal Invasion. Presented at the 31st Annual San Antonio Breast Cancer Conference, 2008, in Cancer Res. 69: 262s, 2009 (Poster presentation by JG).
102. JQ Brown, TM Bydlon, SA Kennedy, L Richards, MS Junker, GM Palmer, J Geradts, LG Wilke and N Ramanujam: Intraoperative Optical Breast Tissue Characterization Device for Tumor Margin Assessment. Presented at the 31st Annual San Antonio Breast Cancer Conference, 2008, in Cancer Res. 69: 101s, 2009
103. J Geradts, DP Gaile, L Shepherd, MM Desouki and S Liao: Differential Copy Number Aberrations In New Candidate Genes Associated With Early Breast Cancer Progression. Presented at the 98th Annual Meeting of the United States and Canadian Academy of Pathology, in Mod. Pathol. 22 Suppl. 1: 41A, 2009 (Platform presentation by JG)
104. AK Sood, J Wang, B Janarthanan, P Liang, H Kim and J Geradts: Prostate Derived Ets Factor (PDEF), an Emerging Biomarker in Cancer. Presented at the 100th Annual Meeting of the American Association for Cancer Research, 2009
105. PK Marcom, MB Datto, WT Barry, D Watson, J Geradts, TL Foster, L Rouse, HK Dressman, J Olson, A Potti, G Ginsburg and JR Nevins: Implementation of Genomic Predictors of Chemotherapy Response for Guiding Preoperative Therapy in a Prospective Breast Cancer Trial. Presented at the Annual ASCO Meeting, 2009. Published in J. Clin. Oncol. 27 Suppl. : 11057, 5/20/2009

106. J Geradts, R Saxena, J Groth, MM Desouki, J Burchette and S Liao: Downregulation of the Novel Candidate Tumor Suppressor Gene NCOR2/SMRT in Human Breast Cancer Progression. Presented at the 32nd Annual San Antonio Breast Cancer Symposium, 2009, in Cancer Res. 69 Suppl.: 696S, 2009 (Poster presentation by JG)
107. TM Bydlon, JQ Brown, WT Barry, J Geradts, LG Wilke, SA Kennedy, LM Richards, MK Junker and N Ramanujam: Rapid Optical Imaging of Breast Tumor Margins: Final Results from a 100-Patient Clinical Study. Presented at the 32nd Annual San Antonio Breast Cancer Symposium, 2009, in Cancer Res. 69 Suppl.: 770-1S, 2009
108. J Geradts, SM Bean, RC Bentley and W Barry: Correlation of the Oncotype Dx Recurrence Score With a Composite Index Comprised of ER, PR, HER2, and Breast Tumor Grade. Presented at the Annual ASCO Meeting, 2010
109. PK Marcom, W Barry, MB Datto, J Geradts, JA Olson, J Marks, GH Lyman, A Potti, GS Ginsburg and JR Nevins: A Randomized Phase II Trial Evaluating the Performance of Genomic Expression Profiles To Direct the Use of Preoperative Chemotherapy for Early Stage Breast Cancer. Presented at the Annual ASCO Meeting, 2010
110. D Reddi, EL Kulbacki and J Geradts: Invasive Papillary and Micropapillary Carcinoma of the Breast with Osteoclast-Like Giant Cells. Presented at the Annual CAP Meeting, 2010
111. D West, J Geradts and V Roggli: Endobronchial Metastatic Breast Cancer with Pagetoid Histology Mimicking Bronchial Pagetoid Squamous Cell Carcinoma In Situ. Presented at the Annual CAP Meeting, 2010
112. TM Bydlon, SA Kennedy, JQ Brown, JE Gallagher, MS Junker, W Barry, J Geradts, N Ramanujam and LG Wilke: Effect of Patient Characteristics on the Optical Properties of Breast Tumor Margins. Presented at the 2010 ASCO Breast Meeting
113. PK Marcom, W Barry, MB Datto, J Geradts, JA Olson, NM Kuderer, TL Foster, GS Ginsburg, A Potti and JR Nevins: Generation of Real-Time Full-Genome Expression Data for Guiding Preoperative Chemotherapy in a Prospective Breast Cancer Trial. Presented at the ASCO-NCI-EORTC Annual Meeting on Molecular Markers in Cancer, 2010
114. B Adamo, A Deal, C Livasy, H Meng, E Burrows, K Fritchie, K Blackwell, J Geradts, M Ewend, L Carey, CR Miller and C Anders: Phosphatidylinositol 3-kinase (PI3K) Pathway Activation in Breast Cancer Brain Metastases. Presented at the 33rd Annual San Antonio Breast Cancer Symposium, 2010
115. B Adamo, A Deal, C Livasy, E Burrows, K Fritchie, K Blackwell, E Hamilton, J Geradts, L Thorne, A Ugolkov, R Miller, M Ewend, L Carey, C Perou, V Cryns and C Anders: Alpha-Basic-Crystallin (ABC) Expression in Breast Cancer Brain Metastases (BCBM) and Primary Breast Cancers (PBC) with Eventual BM. Presented at the 2011 ASCO Meeting

116. PK Marcom, J Olson, J Nevins, T Foster, V Liotcheva, G Ginsburg, J Marks, M Datto, W Barry and J Geradts: Pathologic Response Analysis for a Genomically Guided Preoperative Chemotherapy Trial. Presented at the 2011 CDBRP Era of Hope Meeting
117. PK Marcom, J Olson, J Nevins, T Foster, V Liotcheva, G Ginsburg, J Marks, J Geradts, M Datto and W Barry: Generation of Real-time Full-genome Expression Data for Treatment Assignment in a Prospective Breast Cancer Trial. Presented at the 2011 CDBRP Era of Hope Meeting
118. C Ibarra-Drendall, J Geradts, WT Barry, G Broadwater, C Ramos, EF Petricoin, S Lem, N Tolbert and VL Seewaldt: Cell Signaling Network Profiling of Primary Breast Cancers from Premenopausal Women. Proceedings of the AACR Conference on Advances in Breast Cancer Research: 173-4, 2011
119. TM Bydlon, J Brown, S Kennedy, JE Gallagher, M Caldwell, M Junker, LG Wilke, WT Barry, J Geradts and N Ramanujam: Optical Spectral Imaging for Breast Margin Assessment: A Comprehensive Assessment of Sources of Contrast. Presented at the 2012 Optical Society of America Biomedical Optics Conference
120. D Il'yasova, N Spector, J Geradts and J Schildkraut: Population-based Ascertainment of the Inflammatory Breast Cancer Cases in North Carolina. Presented at the Third International Inflammatory Breast Cancer Conference, 2012
121. WT Barry, PK Marcom, J Geradts and M Datto: Retrospective Study of Precision of Gene Expression Based Signatures of Prognosis and Tumor Biology in Replicate Surgical Biospecimens from Patients with Breast Cancer. Presented at the 2012 San Antonio Breast Cancer Symposium
122. NM Kuderer, WT Barry, J Geradts, GS Ginsburg, GH Lyman, M Datto, V Liotcheva, P Isner, T Veldman, P Agarwal, S Hwang, N Ready and PK Marcom: A Cross-Platform Comparison of Genomic Signatures and Oncotype Dx Score to Discover Potential Prognostic/Predictive Genes and Pathways. Presented at the 2012 San Antonio Breast Cancer Symposium
123. GH Lyman, E Culakova, MS Poniewierski, A Wogu, W Barry, GS Ginsburg, PK Marcom, N Ready, A Abernethy, J Geradts and NM Kuderer: Ki67 as a Predictive Marker of Response to Neoadjuvant Chemotherapy in Patients with Early-Stage Breast Cancer (ESBC): A Systematic Review and Evidence Summary. Presented at the 2012 San Antonio Breast Cancer Symposium
124. JK Horton, RC Blitzblau, S Yoo, GS Georgiade, J Geradts, JA Baker, Z Chang, EA Duffy, G Broadwater, W Barry and ES Hwang: Preoperative Single-Fraction Partial Breast Radiotherapy – Initial Results from a Novel Phase I Dose-Escalation Protocol with Exploration of Radiation Response Biomarkers. Presented at the 2013 San Antonio Breast Cancer Symposium
125. NJ Taylor, NN Feinberg, B Midkiff and J Geradts: Rational Manual and Automated Scoring Thresholds for the Immunohistochemical Detection of TP53 Missense Mutations

- in Human Breast Carcinomas. Presented at the 103rd Annual USCAP Meeting, 2014. Published in Mod. Pathol. 27 Suppl. 2: 84A, 2014 (Poster presentation by JG)
126. G Jin, J Groth, S Liao and J Geradts: Molecular Abnormalities Differentiating DCIS Lesions With and Without Associated Stromal Invasion. Presented at the 103rd Annual USCAP Meeting, 2014. Published in Mod. Pathol. 27 Suppl. 2: 56A-57A, 2014 (Poster presentation by JG)
127. S Abbott, J Horton and J Geradts: Atypical Squamous Metaplasia: A Common Manifestation of Acute Radiation Injury in the Female Breast and Possible Diagnostic Pitfall. Presented at the 103rd Annual USCAP Meeting, 2014. Published in Mod. Pathol. 27 Suppl. 2: 34A, 2014
128. EH Allott, J Geradts, X Sun, SM Cohen, T Khoury, W Bshara, G Zirpoli, JR Palmer, CB Ambrosone, AF Olshan and MA Troester: Intratumoral Hormone Receptor Heterogeneity Is a Characteristic of High Grade Breast Cancer and Is Associated with Inter-Laboratory Hormone Receptor Status Discordance. Presented at the Seventh AACR Conference on The Science Of Cancer Health Disparities, 2014
129. CI Drendall, W Barry, C Ramos, N Tolbert, J Geradts, E Petricoin and V Seewaldt: Feasibility Study: Protein Profiling of Primary Breast Cancers from Premenopausal Women. Presented at the Seventh AACR Conference on The Science Of Cancer Health Disparities, 2014. Published in Cancer Epi. Biom. Prev. 23 Suppl.: C16, 2014
130. T Khoury, G Zirpoli, SM Cohen, J Geradts, MA Troester and CB Ambrosone: Correlation of Manual and Image Analysis Ki-67 Scores in Breast Cancer Tissue Microarrays and Comparison with PAM50 Data. Presented at the 104th Annual USCAP Meeting, 2015. Published in Mod. Pathol. 28: 50A, 2015
132. MK Evans, SJ Sauer, AJ Aldrich, J Geradts, P Vermeulen, L Dirix, S Van Laere and GR Devi: A Novel Link Between Anti-Apoptotic Signaling, NFκB, and SMAD7 in IBC Pathobiology. Presented at the Annual AACR Conference 2015. Published in Cancer Res. 75: P6-14-05, 2015
133. K Thress, J Leeson, J Geradts, M Schuler, M-J Ahn, J Wolf, KA Gold, JCH Yang, F Blackhall, W-C Su, V Jacobs, NR Smith, H Angell, K Brown, K Vishwanathan, JC Barrett, M Cantarini and PA Jänne: Design, Execution, and Preliminary Biomarker Results from Paired Tumor Biopsy Cohorts of the AZD9291 AURA Trial. Presented at the 2015 World Congress on Lung Cancer. Published in J. Thor. Oncol. 10: S320, 2015
134. T Khoury, G Zirpoli, S Cohen, M Merzianu, M Troester, J Geradts, A Worrall, W Bshara and C Ambrosone: Comprehensive Evaluation of Ki67 in Luminal-Type/HER2-negative Breast Cancer in the AMBER Consortium. Presented at the 105th Annual USCAP Meeting, 2016. Published In Lab. Invest. 96: 50A, 2016
135. T Yeh, V Jacobs, H Angell, J Geradts, J Hou, J Karakunnel and JC Barrett: Inhibition of pEGFR in Paired Tumour Biopsies from TKI Treatment-Naive EGFR Mutant NSCLC Patients Treated with Gefitinib (EGFR Inhibitor) or Gefitinib in Combination with

- Durvalumab (Anti-PD-L1). Presented at the European Lung Cancer Conference, 2016, Published in *J. Thorac. Oncol.* 11 (Suppl.): S80-1, 2016
136. EH Allott, M Chen, Y Shan, X Sun, E Kirk, Y Li, Z Hu, AF Olshan, J Geradts, HS Earp, LA Carey, CM Perou, R Pfeiffer, WF Anderson and MA Troester: Molecular Tumor Profiling to Define Etiologic Subtypes of Breast Cancer. Presented at the Third International Molecular Pathological Epidemiology Meeting, 2016
137. BS Kochupurakkal, K Parmar, J-B Lazaro, C Unitt, Q Zeng, H Reavis, C Ganesa, S Zhou, J Liu, S Palakurthi, K Strickland, B Howitt, P Konstantinopoulos, P Kirschmeier, J Geradts, R Drapkin, U Matulonis, A D'Andrea and G Shapiro: Development of a RAD51-Based Assay for Determining Homologous Recombination Proficiency and PARP Inhibitor Sensitivity. Presented at the Annual AACR Meeting, 2017
138. GI Shapiro, KT Do, SM Tolanay, JF Hilton, JM Cleary, A Wolanski, B Beardslee, F Hassinger, K Bhushan, D Cai, E Downey, S Pruitt-Thompson, SM Barry, B Kochupurakkai, J Geradts, C Unitt, AD D'Andrea, A Muzikansy, R Piekarz, LA Doyle and J Supko: Phase 1 Dose-Escalation Study of the CDK Inhibitor Dinaciclib in Combination with the PARP Inhibitor Veliparib in Patients with Advanced Solid Tumors. Presented at the Annual AACR Meeting, 2017
139. MJ Fackler, SS Cho, LM Cope, E Gabrielson, K Wilsbach, C Lynch, JR Marks, J Geradts, MM Regan, G Viale, AC Wolff, CB Umbricht and S Sukumar: DNA Methylation Markers Predict Recurrence-Free Interval in Triple-Negative Breast Cancer. Presented at the 41st Annual San Antonio Breast Cancer Symposium, 2018
140. TP Slavin, KKW Tsang, J Longmate, D Castillo, J Herzog, H Qin, J Wang, S Neuhausen, R Mejia, E King, M Telatar, C Marcum, C Hendricks, C Hake, V Seewaldt, J Geradts, J Stark, G Marcucci and JN Weitzel: Germline ATM Mutations Predispose to Clonal Hematopoiesis. Presented at the Annual ASCO Meeting, 2019
141. J Joseph, Y-C Yuan, J Tomsic, M Razo, Z liu, H Li, V Seewaldt, J Geradts: Deep Learning Algorithms Applied to Digital Images of Pathologic Specimens and Multi-Scale Data Integration. Presented at the Second International Conference on Artificial Intelligence in Healthcare, 2019
142. GR Devi, J Geradts, C van Berckelaer, P Finetti, L Dirix, S Krishnamurthy, P van Dam, MA Morse, SJ McCall, F Bertucci, SJ van Laere: Tumor Cell Expression of X-Linked Inhibitor of Apoptosis Protein Modulates the Immune Microenvironment in Inflammatory Breast Cancer. Accepted for presentation at the Annual San Antonio Breast Cancer Symposium, 2019
145. TR Soong, J Geradts: Comparison and Assessment of Pathobiologic Indices to Predict Oncotype DX Recurrence Scores. Presented at the Annual USCAP Conference, 2020
146. A Mohamed, A Kousar, K Takeda, J Geradts: Pathobiologic Stratification of Oncotype DX Recurrence Scores and Comparative Validation of Three Surrogate Models. Presented at the Annual USCAP Conference, 2021

147. J Geradts, A Kousar, J Wong, N Vohra, M Muzaffer, A Mohamed: Prediction of Oncotype DX Recurrence Score by Patho-Biologic Variables and Three Surrogate Models. Presented at the Annual San Antonio Breast Cancer Symposium, 2021 (poster presentation by JG)
148. C van Berckelaer, S van Laere, J Geradts, L Dirix, M Morse, M Kockx, F Bertucci, P van Dam, GR Devi: XIAP Expression Is Associated with Infiltration of CD163+ Tumor-Associated Macrophages in the Tumor Micro-Environment of Inflammatory Breast Cancer. Presented at the Annual San Antonio Breast Cancer Symposium, 2021
149. A Mohamed, A Kousar, J Geradts: Differential Distribution of Actual and Surrogate Oncotype DX Recurrence Scores by Age, Race, and Body Mass Index. Presented at the Annual USCAP Conference, 2022

Platform Presentations (by JG) at Major Scientific Meetings

1. J Geradts and K Sikora: Effects of Recombinant Interferon on the c-myc Oncogene Product in Daudi Cells. Presented at the Joint Winter Meeting of the BACR and IACR, 1986
2. J Geradts, S-F Wen, S Crush-Stanton, RA Kratzke, and CE Lincoln: RB Mutant Cell Lines Exhibit Differential Immunohistochemical Staining Patterns with a Panel of Monoclonal Antibodies. Presented at the 20th International Congress of the International Academy of Pathology, 1994
3. J Geradts, RA Kratzke, GA Niehans, MJ Birrer, and AF Olshan: Immunohistochemical Evaluation of Tumor Suppressor Gene Products pRB and p16 in Routinely Processed Human Tumors. Presented at the 85th Annual Meeting of the United States and Canadian Academy of Pathology, 1996
4. J Geradts, RA Kratzke, K Froberg, DM Aeppli, PL Nguyen, and GA Niehans: Abrogation of Cell Cycle Control Occurs in Most Muscle Invasive Bladder Cancers. Presented at the 87th Annual Meeting of the United States and Canadian Academy of Pathology, 1998
5. J Geradts, A Harden, S Shepherd, and WK Kaufmann: Abnormal Cell Cycle Regulation in Hepatocellular Carcinomas. Presented at the 87th Annual Meeting of the United States and Canadian Academy of Pathology, 1998
6. J Geradts, K Fong, PV Zimmerman, R Maynard and JD Minna: Tumor Suppressor Gene Abnormalities in Non-Small Cell Lung Cancer (NSCLC). Presented at the 22nd International Congress of the International Academy of Pathology, 1998
7. J Geradts, R Maynard, M Birrer, K Fong, SL Abbondanzo, JC Barrett and DP Lombardi: Loss of Kai-1 Expression in Squamous and Lymphoid Neoplasms: An Immunohisto-chemical Study of Archival Tissues. Presented at the 88th Annual Meeting of the United States and Canadian Academy of Pathology, 1999

8. KS Wilson, R Leek, AL Harris and J Geradts: Microarray Analysis of Differential Gene Expression in HER2/neu-positive and -negative Breast Cancer Cells. Presented at the 90th Annual Meeting of the United States and Canadian Academy of Pathology, 2001
9. J Geradts, R Varma, H Huang, A Pryshchepava, J Groth, N Nowak, D McQuaid, J Conroy, M Mahoney, K Moysich, K Falkner and G Varma: High Density Array CGH Analysis of Sporadic and Radiation Associated Premenopausal Breast Carcinomas. Presented at the 94th Annual Meeting of the United States and Canadian Academy of Pathology, 2005
10. J Geradts, DP Gaile, H Huang, S Liao, D McQuaid, N Nowak, J Conroy and M Desouki: DNA Copy Number Changes Associated with Nodal Metastasis in Human Breast Carcinomas Detected by High Density Array Comparative Genomic Hybridization. Presented at the 96th Annual Meeting of the United States and Canadian Academy of Pathology, 2007
11. J Geradts, DP Gaile, L Shepherd, MM Desouki and S Liao: Differential Copy Number Aberrations In New Candidate Genes Associated With Early Breast Cancer Progression. Presented at the 98th Annual Meeting of the United States and Canadian Academy of Pathology, 2009

Invited Lectures at Continuing Medical Education (CME) Conferences:

1. CPD Cellular Pathology Update (London, England):
Immunohistochemical Prognostic Markers in Common Tumours (11/12/99)
2. 14th Annual Puerto Rico Breast Cancer Conference:
 - (a) The Molecular Pathology of Breast Cancer Progression (10/17/08)
 - (b) Biomarkers Predicting Breast Cancer Response to Neoadjuvant Chemotherapy (10/18/08)
3. Collaboration for Health Improvements in HER2 Breast Cancer (CHAMBER):
Podcast: Diagnosis of HER2-positive Breast Cancer (January 2011)
4. 17th Annual Puerto Rico Breast Cancer Conference:
 - (a) Controversies in Prognostic and Predictive Breast Cancer Biomarker Testing (10/21/11)
 - (b) Progression from Intraductal to Invasive Carcinoma (10/22/11)
5. Symposium on Molecular Diagnostics in Clinical Application (Nanning, China):
Molecular Testing in Breast Cancer (10/11/13)
6. New Concepts Conference on Cancer Molecular Diagnosis and Treatment (Nanning, China):
Molecular Testing in Breast Cancer (9/19/14)

Advisory Boards

InSPECT (EU-funded consortium developing a device for spectral tissue sensing, Philips), 2016-2018

External Advisory Board, Duke Breast SPORE, 2017

Advisory Team, Aiforia, 2019-2021

Service to the Profession:

1. Editorial board membership:
Diagnostics (July 2021 – January 2024)

2. Editorial service/*ad hoc* journal reviewer:
American Journal of Pathology
Archives of Pathology and Laboratory Medicine
Biomedicines
BMC Cancer
Breast Cancer Research and Treatment
British Journal of Cancer
CA: A Cancer Journal for Clinicians
Cancer Investigation
Cancer Research
Cancer Epidemiology, Biomarkers & Prevention
Cell Growth & Differentiation
Clinical Cancer Research
Clinical Cytometry
Gynecologic and Obstetric Investigation
Human Pathology
International Journal of Breast Cancer
International Journal of Cancer
International Journal of Hyperthermia
International Journal of Radiation Oncology, Biology, Physics
International Journal of Surgical Pathology
Journal of Clinical Oncology
Journal of Histochemistry & Cytochemistry
Journal of Pathology
Modern Pathology
Molecular Medicine
National University of Singapore Global Asia Institute
Oncogene
Oncology

3. Panel Session Chair:
Moderator, Annual USCAP Meeting, Boston 1998

Moderator, Biannual IAP Meeting, Nice (France) 1998
Moderator, Annual USCAP Meeting, San Antonio 2005

4. Grant Review and Workshops:
Member, DOD Breast Cancer Research Program Programmatic Review Panel, 2005, 2011, 2016, 2018
Invited Participant, Worldwide Biobank Summit IV and NCI Symposium on International Harmonization of Biorepository Practices, 2005
Reviewer, Breast Cancer Foundation New Zealand, 2019
5. Society Memberships: United States and Canadian Academy of Pathology (since 1988)
 American Association for Cancer Research (since 1991)
 College of American Pathologists (since 2020)

University & Medical School Service:

Chair, UNC Hospital Laboratories Quality Assurance Committee (1993-95)

Study Pathologist, UNC Breast Cancer SPORE (1993-98)

Study Pathologist, CALGB (1995-98)

Pathologist, Paraffin Archive Resource/Tissue Microarray Facility, RPCI (2001-05)

Supervision of UB oncology residents and RPCI oncology fellows (2001-05)

Member, Scientific Review Committee, Roswell Park Cancer Institute (2002-05)

Member, Breast Research Group Steering Committee, Roswell Park Cancer Institute (2003-05)

Co-Chair, Breast Cancer Metastasis Group, Roswell Park Cancer Institute (2003-05)

Member, Search Committee for Head of Molecular Pathology, Roswell Park Cancer Institute (2004)

Director of Tissue Banking Core, Duke Breast Cancer SPORE (2005-14)

Member, Senior Leadership, Duke Clinical Research-Oncology (DCRO) (2006)

Member, Duke Breast Program Leadership Team (2010-12)

Program Member, Cancer Control & Population Sciences, City of Hope Comprehensive Cancer Center (2018-19)

Member, Breast Cancer Committee, The Outer Banks Hospital (2020-2022)

Member, Breast Program Leadership Committee, ECU Health Medical Center (2020-present)

Departmental Service:

Director, UNC Anatomic Pathology Faculty Research Laboratory (1994-98)

Director, UNC Clinical Image and Flow Cytometry Service (1995-98)

Director, UNC Anatomic Pathology Quality Assurance Program (1994-95)

Organization of departmental seminar series, Nuffield Department of Pathology and Bacteriology, University of Oxford (1998-99)

Reference Pathologist, ACIS Imaging Core Facility, RPCI (2001-05)

Reference Pathologist, RPCI Breast Cancer Program (2001-05)

Reference Breast Pathologist, Duke University Medical Center (DUMC) (2005-14)

Chief of Breast Pathology Service, DUMC (2012-14)

Member, Department of Pathology Academic Promotion & Tenure Committee, DUMC (2008-14)

Member, Department of Pathology Operations Committee, DUMC (2012-14)

Member, Human Biological Substances Governance Team, AstraZeneca (2015)

Member, UK Translational Science Leadership Team, AstraZeneca (2015)

Principal Histopathologist in Oncology, AstraZeneca (2015)

Director, Multi-Scale Translational Research Core Laboratory, City of Hope (2017-2019)

Reference Breast Pathologist, ECU Health Medical Center (2020-present)

Courses Taught and Other Teaching Activities:

Supervision of medical student pathology laboratories, supervision and instruction of junior residents and formal presentations to pathologists and clinicians (as chief resident in anatomic pathology at San Francisco General Hospital, July to December 1988; and as fellow in surgical pathology at Stanford University Medical Center, 1989-90)

Participation in tumor boards and lectures at the National Cancer Institute - Navy Medical Oncology Branch and at Frederick Memorial Hospital (1991-93)

Lectures and laboratory exercises on non-neoplastic and neoplastic lung diseases and breast pathology as part of pathology course for second year medical students at UNC (Path 222); direction of numerous other lab sessions (1994-98)

Lectures to UNC pathology residents (1994-98)

Lectures to UNC graduate students (Path 225) (1996-98)

Lectures to UNC cytotechnology students (1996-98)

Lectures and tutorials, Oxford University Clinical School pathology course (1999-2000)

Lecture on immunohistochemical prognostic markers as part of a CME course for British pathologists (1999)

Lectures to UB pathology residents and RPCI fellows (2002-2005)

Instructor, Pathology Laboratory Exercises for Second Year Medical Students, UB (2002)

RPCI departmental and interdisciplinary seminars (2001-2005)

Lecturer, PTR 505 (Recent Advances in Experimental Pathology), RPCI (2002-2003)

Lecturer, PTR 535 (Pathophysiology for Graduate Students), RPCI (2002-2003)

Supervision of UB pathology residents and RPCI pathology fellows (2001-2005)

Supervision of Duke pathology residents and fellows (2005-2014)

Laboratory Supervisor, Body and Disease Course (Duke University Medical School First Year Curriculum) (2006-2007)

Examiner, Body and Disease Course (Duke University Medical School First Year Curriculum) (2008, 2010, 2011)

Lecture at Brigham and Women's Hospital/Harvard Medical School: "Multi-Gene Assays in Breast Cancer: Utility and Limitations" (June 2017)

Teaching Faculty, ALS 493 (Independent Research for Master's Students at City of Hope) (2019)

ECU Pathology Grand Rounds: "Multi-Gene Assays in Breast Cancer: Utility and Limitations" (Updated) (June 2020)

Supervision of ECU pathology residents, didactic conferences (2020-present)

ECU Pathology Grand Rounds: "Research Update on Breast Cancer in North Carolina" (May 2023)

Seminar at UCSF Medical Center: “Predictors of Breast Cancer Phenotype: Multi-Gene Assays, Surrogate Models, and Deep Learning Algorithms” (September 2023)

Research Activities:

(A) Research supervision of students, residents, and clinical fellows:

Richard Soper (1994-95)
Patrick A. Wilson (1995-96)
Jill A. Cohen (1995-97)
Helena Furberg (1995-2000)
David Thomas (1996-97)
Christopher D. Ingram (1996-98)
Babatunde Olatidoye (1997-98)
Chad A. Livasy (1997-98)
Andrew J. Creager (1997-98)
Katherine S. Wilson (2000-01)
Alistair Robson (1999-2001)
Shengle Zhang (2001-02)
Ming Jiang (2001-03)
Indie Jones (2002-03)
Elena Roukhadze (2002-03)
Iouri Ivanov (2002-03)
Geetha Varma (2002-04)
Dany El-Hajjar (2002-03)
Mudnia Akhtar (2003-04)
Balazs Gerloczy (2004-05)
Rakhee Saxena (2004-05)
Lauren Scott (2005)
Blake Hutchinson (2008-09)
Sara Abbott (2013-16)
Rinda Soong (2016-17)
Anas Mohamed (2020-2023)
Arooj Devi (2023)

(B) Supervision of postdoctoral research fellows:

Huayi Huang (2002-2005)
Alena Pryshchepava (Visiting Scientist, UICC Fellow, 2003)
Mokhtar Desouki (2005-2007)
Shaoxi Liao (2006-2008, 2011-12)
Genglin Jin (2012-2014)

(C) Dissertation Committees: Robert Schopler (Ph.D., University of North Carolina, 1998)
Hisani Horne (Ph.D., Duke University, 2010)

Stephanie Kennedy (Ph.D., Duke University, 2012)
Torre Bydlon (Ph.D., Duke University, 2012)

Research Interests:

Pathology and biology of breast cancer
Prognostic and predictive breast cancer biomarkers
In situ assays for tumor biomarkers
Intratumor heterogeneity
Deep learning algorithms applied to breast pathology