Curriculum Vitae
Bonnie L. King, PhD

WORK ADDRESS
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EDUCATION

PhD, Endocrinology	University of California, Berkeley	1988
Teaching Credential, Biological Sciences	San Francisco State University	1978
BS, Human Physiology	University of California, Berkeley	1977

ACADEMIC APPOINTMENTS AND PROFESSIONAL EXPERIENCE

Instructor	Department of Pediatrics	2011-
Consultant	Novartis Vaccines & Diagnostics, Inc. Emeryville, CA	2010-2011
Deputy Director	Canary Center at Stanford for Cancer Early Detection Department of Radiology Stanford University School of Medicine	2008-2009
Instructor	Canary Center at Stanford for Cancer Early Detection Department of Radiology Stanford University School of Medicine	2008-2009
Consultant	CellPoint Diagnostics, Inc Mountain View, CA	2008-2009
Manager	Research & Development CellPoint Diagnostics, CA Mountain View, CA	2007-2008
Adjunct Assistant Professor	Department of Biological Sciences Quinnipiac University, Hamden, CT	2005-2006
Associate Research Scientist (Research Faculty, PI)	Department of Therapeutic Radiology Yale University School of Medicine New Haven, CT	1998-2004
Associate Research Scientist	Department of Therapeutic Radiology Yale University School of Medicine New Haven, CT	1993-1998
Postdoctoral Fellow	Department of Therapeutic Radiology Yale University School of Medicine New Haven, CT	1989 -1992
Head Teaching Assistant	Biology UC Berkeley, Berkeley, CA	1985
Teaching Assistant	Biology UC Berkeley, Berkeley, CA	1984-1987
Biology Teacher	Lawrence Hall of Science, Berkeley, CA	1978-1983

PUBLICATIONS

1. Giltnane JM, Murren JR, Rimm DL, **King BL**. AQUA and FISH analysis of HER-2/neu expression and amplification in a small cell lung carcinoma tissue array. Histopathology 49: 161-169, 2006.
2. **King BL**, and Love SM. The intraductal approach to the breast: raison d'etre. Breast Cancer Research 8(2): 206-210, 2006.
3. Higgins SA, Matloff ET, Rimm DL, Dziura JD, Haffty BG, **King BL**. Patterns of reduced nipple aspirate fluid yield and ductal lavage cellularity in women at high-risk for breast cancer. Breast Cancer Research 7(6): 1017-1020, 2005.
4. **King BL**, Love SM, Rochman S, Kim, JA. Meeting Report: The Fourth International Symposium on the Intraductal Approach to Breast Cancer, Santa Barbara 10-13, March 2005. Breast Cancer Research 7(5): 198-204, 2005.
5. Haffty BG, Hauser A, Choi DH, Parisot N, Rimm DL, **King BL**, Carter D. Molecular markers for prognosis after isolated postmastectomy chest wall recurrence. Cancer (100): 252-256, 2004.
6. Choi DH, Dhandapani D, Parisot N, Bok SD, Hyuk LM, Wha LD, Carter D, **King BL**, Haffty BG. A comparison of five immunohistochemical biomarkers and HER-2/neu gene amplification by fluorescence in situ hybridization in white and Korean patients with early-onset breast carcinoma. Cancer 98(8): 1587-95, 2003.
7. **King BL**, Tsai SC, Gryga M, D'Aquila TG, Seelig SA, Morrison L, Jacobson K, Legator M, Ward DC, Rimm DL, Phillips RF. Detection of chromosome instability in paired samples of breast surgery and ductal lavage specimens by interphase FISH. Clinical Cancer Research 9(4): 1509-1516, 2003.
8. Camp RL, Dolled-Filhart M., **King BL**, Rimm DL. Quantitative analysis of breast cancer tissue microarrays shows both high and normal levels of Her2 expression are associated with poor outcome. Cancer Research 63: 1445-1448, 2003.
9. **King, BL**. The promise and pitfalls of breast fluid proteins as markers for cancer detection. The Cancer Journal 8(4): 295-297, 2002.
10. **King BL**, Crisi G, Tsai S, Haffty BG, Phillips RF, and Rimm, DL. Immunocytochemical analysis of cells obtained by breast ductal lavage. Cancer Cytopathology 96:244-249, 2002.
11. Khan AJ, **King BL**, Smith BD, Smith GL, DiGiovanna MP, Carter D, and Haffty BG. Characterization of the Her-2/neu oncogene by immunohistochemical and fluorescence in situ hybridization analysis in oral and oropharyngeal squamous cell carcinoma. Clinical Cancer Research 8:540-548, 2002.
12. O' Shaughnessy JA, Ljung BM, Dooley WC, Chang J, Kuerer HM, Hung DT, Grant MD, Khan SA, Phillips RF, Duvall K, Euhus DM, **King BL**, Anderson, BO, Troyan SL, Kim J, Veronesi U. Ductal lavage and the clinical management of women at high risk for breast cancer: a commentary. Cancer (94)2: 292-298, 2002.
13. Dooley W., Ljung B-M., Veronesi, U., Cazzaniga, M. Elledge, R., O'Shaughnessy, J., Kuerer, H., Hung, D., Khan, S., Hung, D., Phillips, R., Ganz, P., Euhus, P., Esserman, L., Haffty, B., **King, B**., Kelley, M., Anderson, M., Schmit, P., Clark, R., Kass, F., Anderson, B., Troyan, S., Arias, R., Quiring, J., Love, S., Page, D. King E. Ductal lavage for detection of cellular atypia in women at high risk for breast cancer. JNCI (93)21: 1624-1632, 2001.
14. **King, B.L**., Sirugo, G., Nadeau, H.H., Hudson, T., Kidd, K.K., Kacinski, B.M., and Schalling, M. Long CAG repeats in mice. Mammalian Genome 9:392-393, 1998.

15. Narod, S., **King, B.L**., and Hogg, D. Hereditary cancer in men: prostate and testicular cancer. In Inherited Susceptibility to Cancer: Clinical, Predictive & Ethical Perspectives. Foulkes, W.D. and Hodgson, S.V. (Eds.) Cambridge University Press, New York, 1998.
16. **King, B.L**., Hong-Qi, P., Goss, P., Huan, S., Bronson, D., Kacinski, B.M., Hogg, D. Repeat expansion detection analysis of (CAG)n tracts in tumor cell lines, testicular tumors, and testicular cancer families. Cancer Res. 57:209-214, 1997.
17. **King, B.L**., Carcangiu, M-L., Carter, D., Kiechle-Schwartz, M., Pfisterer, J., Pfleiderer, A., Kacinski, B.M. Microsatellite instability in ovarian neoplasms. Brit. J. Cancer 72:376-383, 1995.
18. **King, B.L**., Lichtenstein, A., Berenson, J. and Kacinski, B.M. A polymerase chain reaction-based microsatellite typing assay used for tumor cell line identification. Am. J. Pathol. 144(3): 486-491, 1994.
19. **King, B.L**., Carter, D., Foellmer, H.G., Kacinski, B.M. Neu proto-oncogene amplification and expression in ovarian adenocarcinoma cell lines. Am. J. Pathol. 140: 23-31, 1992.
20. Kacinski, B.M., Mayer, A., **King, B.L**., Carter, D., Chambers, S.K. Neu protein overexpression in benign, borderline and malignant ovarian neoplasms. Gynecol. Oncol. 44:245-253, 1992.
21. Kacinski, B.M., Scata, K.A., Carter, D., Yee, L.D., Sapi, E., **King, B.L.,** Chambers, S.K., Jones, M.A., Pirro, M.H., Stanley, E.R., Rohrschneider, L.R. Fms (CSF-1) receptor) and CSF-1 transcripts and protein are expressed by human breast carcinomas in vivo and in vitro. Oncogene 6:941-952, 1991.

ABSTRACTS

1. Love SM and **King BL**. Ductal lavage in nipple aspirate fluid producing and non-producing ducts in healthy volunteers. Breast Cancer Research and Treatment Supplement 1 88 S189-S190 (abstract 5019), 2004.
2. Ali ND, Trinh J, Higgins SA, Rimm DL, **King BL**. Platform presentation (BLK) Do intraductal macrophages play a role in early breast cancer progression? Am J Repro Immunol 49(6): 347, 2003.
3. Ali ND, Higgins S, Trinh J, Rimm DL, **King BL**. Analysis of aromatase expression in intraductal mammary foam cells. Platform presentation (NDA). The 3PPrd International Santa Barbara Symposium: The Intraductal Aroach to Breast Cancer, Santa Barbara, 2003.
4. Rimm DL, Seelig M, Jacobson K, Morrison M, **King BL**. Molecular cytogenetic analysis of breast duct lavage specimens is more sensitive than morphologic evaluation. Platform presentation (DLR). American Society of Cytopathology Annual Meeting, Salt Lake City, Utah, 2002.
5. **King BL**, Tsai S, Gryga M, Seelig S, Morrison M, Legator M, Jacobson K, Ward D, Rimm D, Phillips R. Genetic instability in exfoliated breast epithelial cells obtained by ductal lavage. Late- breaking poster abstract, AACR, San Francisco, CA, 2002.
6. Rimm DL, Phillips R, **King BL**. Histologic Correlation of Breast Ductal Lavage. Poster Abstract, Acta Cytologica, p 848, 2001.
7. Ganz PA, Dooley W, Haffty B, **King BL**, O'Shaughnessy J, Verones U, Ljung B, Hung D. Identification of premalignant and malignant breast cells in mammogram- and physical exam-negative women by ductal lavage: results from a multicenter trial. Poster discussion, ASCO (19): 76a, New Orleans, LA, 2000.
8. **King BL**, Peng H-Q, Bronson D, Kacinski BM, Hogg D. Triplet repeat expansions in testicular cancer. Poster at the "DNA Alterations in Transformed Cells" Gordon Conference, Tilton, New Hampshire, 1996.

9. **King BL**, Sirugo G, Kidd KK, Kacinski BM. Analysis of triplet repeat expansions in tumor cell lines. Poster at the "Molecular Genetics", and "Cancer" Gordon Research Conferences, Newport, Rhode Island, 1995.
10. **King BL**, Chaubert, Flick M, Carter D, Carcangiu ML, Costa J, Kacinski BM. "Tetranucleotide microsatellite instability in ovarian, breast, and ulcerative colitis-associated colorectal tumors." Poster abstract, Cancer: Perturbations in cell cycle control and genomic integrity, a conference sponsored by the AACR. Banff, Canada, 1994.
11. **King BL**, Carter D, Kurman RJ, Kacinski BM. PCR-based DNA fingerprinting. Diagnostic Molecular Pathology, 3(3): 215, 1994.
12. **King BL**, Carter D, Kacinski BM. Microsatellite instability in tumors. Fourth Meeting on the Molecular Basis of Cancer, Frederick, Maryland, 1993.

GRANT SUPPORT

- "Ductal Lavage Markers for Breast Cancer Risk Assessment", NIH/NCI - EDRN (Early Detection Research Network), 2003-2005.
- "New Approaches for Breast Cancer Screening in a High-Risk Population", Anna and Argall Hull Translational Research Award in Cancer, 2002-2004.
- "Breast Cancer Markers in Ductal Lavage Cells", Breast Cancer Alliance, 2002-2003.
- "Breast Cancer Surveillance for BRCA Mutation Carriers", Gail Gilman Fund, 2001-2002.
- Breast Cancer Markers for Ductal Lavage Cells", Breast Cancer Alliance, 2001-2002.
- "Cytogenetic Analysis of Breast Touch Prep/Ductal Lavage Paired Cases", Susan Love MD Breast Cancer Foundation Award, 2000-2001.
- "Breast Cancer Screening for Hodgkin's Disease Survivors", American Cancer Society Institutional Research Grant, 2000-2001.
- "Cytogenetic Analysis of Exfoliated Breast Cells", Ethel F. Donaghue Women's Health Investigator Award, 2000.
- "A New Approach for Finding a Testicular Cancer Gene", Lance Armstrong Foundation Research Grant, 1999-2000.
- "The Molecular Analysis of Exfoliated Mammary Epithelial Cells", Swebelius Cancer Research Award, 1999-2000.
- "Triplet Repeat Expansions in Testicular Cancer", NIH Shannon Award, 1998-2000.
- Critical Technologies Program Intramural Investigator Award, 1994.
- Swebelius Cancer Research Award, 1990.

INVITED TALKS

- "Breast Fluid Yield and Risk Reduction Therapies", The 5th International Symposium on the Intraductal Approach to the Breast, Los Angeles, CA, 2007.
- "Analysis of Aromatase Expression in Breast Fluid Cells", The 4th International Symposium on the Intraductal Approach to the Breast, Santa Barbara, CA, 2005.
- "Aromatase and Breast Ductal Lavage Fluids", Aromatase 2004 Conference, Edinburgh, Scotland, 2004.
- "Intraductal Approaches for Early Breast Cancer Detection, Risk Assessment, and Mammary Gland Biology", Pathology Department, Yale University, New Haven, CT, 2004.
- "Intraductal Approaches for Early Breast Cancer Detection, Risk Assessment, and Mammary Gland Biology", Yale Cancer Center Grand Rounds, Yale University, New Haven, CT, 2004.
- "Intraductal Approaches for Early Breast Cancer Detection, Risk Assessment, and Mammary Gland Biology", Women's & Infants Hospital, Brown University, Providence, RI, 2004.

- “Intraductal Breast Fluids: Clues to the Normal Breast”, The Second Santa Barbara Think Tank: The Normal Breast, Santa Barbara, CA, 2004.
- Intraductal Approaches for Early Breast Cancer Detection and Mammary Gland Biology”, Department of Animal Science, University of Vermont, Burlington, VT, 2003.
- "Intraductal Approaches for Early Breast Cancer Detection and Risk Assessment", New Frontiers in Cancer Detection and Diagnosis Gordon Conference, Andover, NH, 2003.
- “Ductal Lavage: What We've Learned so Far", Pathology Department, University of Arkansas Medical School, Little Rock, AR, 2003.
- “Do Intraductal Macrophages Play a Role in Early Breast Cancer Progression?" 23rd Annual Meeting of the American Society for Reproductive Immunology, New Haven, CT, 2003.
- “Detection of Chromosome Instability in Paired Samples of Breast Surgery and Ductal Lavage Specimens by Interphase FISH", the 3rd International Santa Barbara Symposiuim: The Intraductal Approach to Breast Cancer, Santa Barbara, CA, 2003.
- “Ductal Lavage: A New Approach for Early Breast Cancer Detection", Baystate Medical Center Comprehensive Breast Center Conference, Springfield, MA, 2002.
- “Duct Lavage Studies at Yale”, Yale Pathology Grand Rounds, University of Yale Medical School, New Haven, CT, 2002.
- Invited Participant: The Santa Barbara Think Tank on Hormones and Breast Cancer, Santa Barbara, CA, 2002.
- “Ductal Lavage Studies at Yale”, University of Vermont Cancer Center, Burlington, VT, 2002.
- “Cytogenetic Analysis of Breast Touch Prep/Ductal Lavage Paired Cases”, Second Symposium on the Intraductal Approach to Breast Cancer”, Santa Barbara, CA, 2001.
- “FISH Analysis of Exfoliated Breast Cells”, Vysis Inc., Chicago, Illinois, 2002.
- “Molecular Analysis of Exfoliated Mammary Epithelial Cells”, First International Symposium on Nipple Aspirate Fluid, Santa Barbara, California, 1999.
- "Triplet Repeat Expansions in Testicular Tumor Cell Lines." Short talk, Human Molecular Genetics Gordon Conference, Newport, Rhode Island, 1997.
- “Microsatellite Instability in Tumors." Department of Radiation Oncology, Stanford University School of Medicine, Stanford, CA, 1996.
- “PCR-based DNA fingerprinting". Ninth Annual Workshop on Recent Advances in Molecular Pathology, Tufts University School of Medicine, Boston, MA, 1994.
- “Microsatellites in Tumors and Tumor Cell Lines". Pathology Grand Rounds, Department of Pathology, Yale University School of Medicine, New Haven, CT, 1993.

PROFESSIONAL ASSOCIATIONS

Stanford Cancer Institute 2012-present
American Association for Cancer Research (AACR) 2009-present
Associate Member NIH-NCI EDRN (Early Detection Research Network) 2003-present
Yale Cancer Center 1993-2004

EXTRACURRICULAR SERVICE

- *Service in Peer Review Processes (Grant Review):* Medical Research Council of Canada (1998) - Ad Hoc, The Ethel F. Donaghue Women's Health Investigator Program at Yale (1998), The Lance Armstrong Foundation (2001, 2002, 2003), NIH: NCI Special Emphasis Panel (2001) - Ad Hoc, NCI Subcommittee E - Cancer Epidemiology, Prevention & control

(2002) - Ad Hoc, Fourth International Symposium for the Intraductal Approach to Breast Cancer Grant Peer Review Committee (2005).

- *Service as Reviewer for Scientific Journals:* Diagnostic Molecular Pathology, Journal of Histochemistry and Cytochemistry, Mammalian Genome, The Histochemical Journal, Laboratory Investigation, British Journal of Cancer, The Cancer Journal, Gynecologic Oncology, BMC Women's Reproductive Health.
- *Program Committee Member:* 3rd and 4th International Symposia on the Intraductal Approach to Breast Cancer, 2003, 2005.

BREAST CANCER COMMUNITY & PROFESSIONAL OUTREACH

- Interviewed for article in CAP TODAY, a publication of the College of American Pathologists. "New school of FISH: solid tumor testing", W. Check, PhD. Vol 18, No. 1. 2004
- Interviewed for a promotional video showcasing the goals and accomplishments of the Greenwich Breast Cancer Alliance. 2003
- Spoke at the Women's Health Research at Yale Conference 2002: Factoring in Gender, Stamford, CT. "New Approaches for Early Breast Cancer Detection". 2002
- Made introductory remarks at the Breast Cancer Alliance Annual Fall Fashion Show Fundraising Event, Greenwich, CT. 2002
- Spoke at support group for high-risk women, Norwalk Hospital, CT. "A New Approach for Breast Cancer Screening". 2000
- Spoke at the Y-ME of Connecticut Breast Cancer Survivor Symposium, New Haven, CT. "A New Approach for Breast Cancer Screening". 1999

TEACHING AND MENTORING ACTIVITIES

Adjunct Assistant Professor 2005-2006
Quinnipiac University, Hamden, CT.

- Taught 3 sections of Bio 101, 102 general biology lecture courses with 105 students per semester.
- Participated in 4-day "Writing Across the Curriculum Workshop" to promote improved writing skills in undergraduate science classes.

Adjunct Teaching Faculty 2002-2005
Gateway Community College, New Haven, CT.

- Developed curriculum and lectured for Physiology of Aging course
- Lecturer and lab instructor for Human Anatomy and Physiology course.

Member, Qualifying Examination Committee 2002
Yale Genetics Department

Faculty Supervisor 2000-2003
Yale Undergraduate Senior Thesis and Research Projects

- Supervised, mentored, and evaluated undergraduates working on independent breast cancer research projects in my laboratory.

Mentor, Bristol-Myers Squibb Interns 1998- 2002
Laboratory Science Internship Program
Yale Cancer Center

- Designed and supervised science internships for local high school seniors working on breast cancer research in my lab.

Biology Teaching Assistant 1986-1987
Introductory Course for Large Student Class
UC Berkeley

- Taught weekly lab and discussion sections for undergraduates.

Member, San Francisco Bay Area Math Science Network 1985-1987
Organization devoted to increasing the participation of girls in Math and Science.

- Organized "Expanding Your Horizons" career conferences to introduce high school girls to professional women in science and math fields.

Biology 1 Lab Associate 1985
UC Berkeley

- Administered the lab curriculum for a course of 600 undergraduate students
- Supervised the 35 graduate student teaching assistants in teaching the lab exercises.

General Zoology Teaching Assistant 1983-1984
UC Berkeley

Biology Teacher 1978-1983
The Lawrence Hall of Science
Scientific Museum on UC Berkeley Campus

- Developed curricula and taught science classes to children in pre-school through high school.

TEACHING HONORS

Outstanding Graduate Student Instructor Award 1985
Outstanding Graduate Student Instructor Award 1986