

**Kathryn Diana Bloch Horwitz, PhD**

*Revised, April 2008 (42 pages)*

**PERSONAL**

BORN: Sosua, Dominican Republic  
US Citizen, 1958

MARRIED: Lawrence D. Horwitz, MD; Two children

HOME ADDRESS:  
9853 East Ida Avenue  
Greenwood Village, Colorado 80111

OFFICE ADDRESS:  
University of Colorado Health Sciences Center @ Fitzsimons  
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**EDUCATION**

- 1955-1958      Bronx High School of Science, Diploma
- 1958-1962      Barnard College  
Columbia University  
New York, New York  
*BA, 1962 (Zoology)*
- 1962-1966      New York University  
Graduate School of Arts & Sciences  
New York, New York  
*MS, 1966 (Marine Biology)*
- 1973-1975      University of Texas Southwestern Medical School, Dallas  
Jean D. Wilson, MD &
- 1973-1975      University of Texas Health Sciences Center, San Antonio, Texas  
William L. McGuire, MD  
*PhD, Southwestern Medical School, 1975 (Medical Endocrinology)*
- 1976-1978      University of Texas, Health Sciences Center, San Antonio,  
William L. McGuire, MD  
*Postdoctoral Fellow*

**PROFESSIONAL APPOINTMENTS**

KB Horwitz, Ph.D. Curriculum Vitae

1962-1963

Research Assistant, Department of Hematology  
Montefiore Hospital, New York, New York

1963-1965

Teaching Fellow in Biology, New York University  
New York, New York

1966-1968

Physiologist, Biodynamics Branch  
U.S. Air Force School of Aerospace Medicine  
Brooks Air Force Base, Texas

1968-1970

Director of Laboratories, Department of Biological Sciences  
Wellesley College, Wellesley, Massachusetts

1978-1979

Instructor  
Department of Medicine  
University of Texas Health Science Center  
San Antonio, Texas

1979-1984

Assistant Professor  
Departments of Medicine, and Biochemistry, Biophysics & Genetics  
University of Colorado Health Sciences Center

1984-1989

Associate Professor  
Departments of Medicine and Pathology  
University of Colorado Health Sciences Center

1989-2004

Professor  
Departments of Medicine and Pathology,  
Graduate School of Biomedical Sciences: The Molecular Biology Program, The  
Reproductive Sciences Program, The Cancer Biology Program  
University of Colorado Health Sciences Center

2004 - present

Distinguished Professor  
The University of Colorado

### ***ELECTED HONORS***

1998-1999        President, The Endocrine Society

2000              Fellow, American Association for the Advancement of Science

### **HONORS AND AWARDS**

Wilson S. Stone Memorial Award for Research,

University of Texas System, MD Anderson Hospital, Houston, 1976

National Board Award, Medical College of Pennsylvania, 1986

Research Career Development Award, National Cancer Institute, NIH, 1981 - 1986

National Foundation for Cancer Research, Researcher of the Year Award, 1990

NIH MERIT Award, 1992 – 2000

UCHSC Department of Medicine, Basic Research Award, 1992

The Rhone Poulenc Rorer Lecture in honor of William L. McGuire, The Endocrine Society, 1993

The William U. Gardner Memorial Lecture, Yale University School of Medicine, 1993

The University of Helsinki Medal and Second Siltavouri Lecturer, Univ. of Helsinki, Finland, 1993

The President's Guest Lecture; The Society for Gynecologic Investigation, 1994

The University Lecture, Southwestern Medical School, University of Texas at Dallas, 1994

Who's Who in America; Who's Who in the World

The Nobel Assembly, Karolinska Research Lecture, Stockholm, Sweden, 1996

Plenary Lecture, The Israel Endocrine Society, Tel-Aviv, 1997

William L. McGuire Memorial Lecture, San Antonio Breast Cancer Symposium, 1997

Plenary Lecture, The Australian Society for Medical Research, Adelaide, 1997

The Bicentennial Lecture, University of Louisville, Kentucky, 1998

Distinguished Scientist Award, The Clinical Ligand Binding Assay Society, 2000

Serono Endowed Lectureship, American Society for Reproductive Medicine, San Diego, 2000

Anita K. Payne Lectureship, University of Michigan, Ann Arbor, 2000

Novum Lecturer, Karolinska Institute, Sweden, 2001

Thomas G. Muldoon Memorial Lecture, Medical College of Georgia, 2001

The Robert W. Schrier Award for Excellence, University of Colorado, 2002

President's Lecture, Society for the Study of Reproduction, 2002

CD Christian Lecture, Society for Gynecological Investigation, 2003

Distinguished Professor, Board of Regents, University of Colorado, 2004

Keynote Lecture, Endometrial Biology – Science meets Clinical Practice, San Francisco, 2006

The Play for P.I.N.K. Award, Breast Cancer Research Foundation, October 2006

NIEHS Distinguished Lecture, NIH, Research Triangle Park, NC, March 2008

The Year in Hormones and Cancer Lecture, The Endocrine Society, June 2008

### **MEETINGS ORGANIZER**

Keystone Symposium: Steroid/Thyroid/Retinoic Acid Receptor Family, 1996

Keystone Symposium: Nuclear Receptor Gene Family, 1998

Estrogen & Progesterone: Receptors and Ligands in the Next Millenium,

Society for Gynecological Investigation, 1999  
Keystone Symposium: Nuclear Receptors, 2000  
Satellite Symposium on Hormone Dependent Cancers  
International Congress of Endocrinology, Australia, 2000  
International Congress on Hormonal Steroids & Hormones and Cancer, Fukuoka,  
Japan, 2002  
Effects of Estrogen Deprivation, Half Moon Bay, CA, July 2002; July 2003  
International Congress of Endocrinology, Fukuoka, Japan 2002; Athens, Greece, 2006

***SOCIETY MEMBERSHIPS***

American Federation for Clinical Research  
The Endocrine Society  
American Association for Cancer Research  
Western Society for Clinical Investigation  
The American Society for Cell Biology  
American Society for Biochemistry and Molecular Biology  
American Association for the Advancement of Science

***CURRENT EDITORIAL BOARDS***

Editorial Board, BREAST CANCER RESEARCH AND TREATMENT, 1980-present  
Corresponding Editor, THE JOURNAL OF STEROID BIOCHEMISTRY, 1986-present  
Editorial Board, ENDOCRINE RELATED CANCER, 1994-present  
Editorial Academy, INTERNATIONAL JOURNAL OF ONCOLOGY, 1994-present  
Associate Editor, REPRODUCTIVE MEDICINE REVIEW, 1994-present  
Editorial Board, J. OF MAMMARY GLAND BIOLOGY AND NEOPLASIA, 1995-present  
Editorial Board, PHYSIOLOGICAL REVIEWS, 2004-2008  
Associate Editor, Endocrinology, ANNUAL REVIEWS OF PHYSIOLOGY, 2004-2006  
Associate Editor for Endocrinology, BREAST CANCER RESEARCH, 2005-

***SELECTED EXTRAMURAL COMMITTEES***

**The Endocrine Society**

Program Committee, 1988-1990  
Elected; Nominating Committee, 1989-1991; 2000-2001  
Chair, 1990  
Council, 1992-1995  
Vice-Chair, Research Affairs Subcommittee  
Publications and Journals Steering Committees  
Executive Committee, 1997-2000  
Elected; President-Elect, 1997-1998  
President, 1998-1999  
Past President, 1999-2000  
Advisory Board, The Hormone Foundation, 1999-2004  
Women in Endocrinology, Awards Committee, 2001  
Chair, 2002  
Awards Committee, 2003-2007  
Chair 2007

**Federation of American Societies for Experimental Biology**

Board of Directors, 2002-2004

Finance Committee, 2002-2004

**American Association for Cancer Research**

Program Committee, 1994-1995

State Legislative Committee, 1994-2000

Chair, Awards Committee, AACR-NFCR Professorship in Basic Cancer Research, 2000

**National Science Foundation**

Cellular Physiology Study Section, 1985-1988

**National Institutes of Health**

Biochemical Endocrinology Study Section, 1989-1993

Reviewers Reserve, 1993-1997

Member, IRG Scientific Review Panel, Endocrinology, Metabolism & Reproductive Sciences, 2000

**The President's Cancer Panel**

Special Commission on Breast Cancer, NCI, 1992-1993

**The International Society for Endocrinology**

Program Committee, 1994-1996

Member, Central Committee 2000-2008

**The International Congress on Hormonal Steroids**

International Organizing Committee, 1997-present

**Department of Defense**

Breast Cancer Research Program, Programmatic Review Committee, 2005; 2006

***SELECTED INTRAMURAL COMMITTEES (see appendix)***

Secretary of the Executive Faculty, University of Colorado School of Medicine

Member, Executive Committee, 1983-1984, 1985-1986

Member, Faculty Senate, 1983-1984; 1985-1986; 1988-1990

Department of Medicine Faculty Promotions Committee (Assistant - Associate), 1984-1999

Medical School Admissions Committee, 1986-1991

Medical Scientist Training Program, 1987-1992

Steering Committee, 1987-1992

Admissions Committee, 1987-1992

Molecular Biology Program – Graduate Faculty; 1988-2007

Space Selection Committee, 1988-1989

Curriculum Committee, 1988-1990

Admissions Committee, 1989-1995

Director: Molecular Biology PhD Program for Clinical Fellows, 1993-present

Reproductive Sciences Program – Graduate Faculty  
Cancer Biology Program – Graduate Faculty  
Chancellor's Committee, Indirect Cost Recovery, 1989-1990  
School of Medicine Standing Committee on Research Ethics, 1989-2000  
Fiscal Oversight Committee, School of Medicine, 1990-1991  
Chair, Physiology Department Chair Search Committee, 1992-1993  
University of Colorado Cancer Center  
    Program Director: Hormones and Cancer Program, 1994-1998  
HHMI Faculty Research Awards Review Committee, 2002  
Research Infrastructure Committee, 2002  
Department of Medicine, Finance Committee, 2003  
Department of Medicine, Post-Tenure Review Committee, 2003 – present  
University of Colorado System, Privilege & Tenure Committee, 2006 – present  
University of Colorado System, Distinguished Professors Committee, 2006 – present

**COMMUNITY SERVICE**

Cancer League of Colorado  
    Scientific Advisory Board, 1986-1990  
    Chair, 1988-1990  
Arizona Cancer Center  
    Scientific Advisory Board, 2000-2004  
The Avon Foundation  
    Research Programs & Underserved Minorities Mammography, Outreach  
    & Breast Cancer Survivorship Programs  
    Program Director, 2001-present

**PATENT**

Progesterone Receptor-Regulated Gene Expression and Methods Related Thereto.  
UTC Ref 10091H

**OTHER ACTIVITIES AND FUNDING**

See Appendix.

## **PUBLICATIONS**

### **REFEREED JOURNAL ARTICLES**

1. Green I and (**Horwitz**) **Bloch K**. Uptake of particulate matter within the thymus of adult and newborn mice. *NATURE* 200:1099-1101, 1963.
2. **Horwitz KB**, Ball RJ and Schmidt JP. Resistance to infection of mice and hamsters following short-term acceleration stress. *AEROSPACE MEDICINE* 41:1248-1251, 1971.
3. **Horwitz KB**, and McGuire WL. Specific progesterone receptors in human breast cancer. *STEROIDS* 25:497-505, 1975.
4. **Horwitz KB**, McGuire WL, Pearson OH and Segaloff A. Predicting response to endocrine therapy in human breast cancer: a hypothesis [on role of progesterone receptors]. *SCIENCE* 189:726-727, 1975.
5. **Horwitz KB**, Costlow ME and McGuire WL. MCF-7: A human breast cancer cell line with estrogen, androgen, progesterone and glucocorticoid receptors. *STEROIDS* 26:785-795, 1975.
6. McGuire WL, **Horwitz KB**, and Chamness GC. A physiological role for estrogen and progesterone in breast cancer. *J STEROID BIOCHEM* 7:875-882, 1976.
7. **Horwitz KB** and McGuire WL. Progesterone and progesterone receptors in experimental breast cancer. *CANCER RESEARCH* 37:1733-1738, 1977.
8. Zava DT, Chamness GC, **Horwitz KB** and McGuire WL. Human breast cancer: biologically active estrogen receptor in the absence of estrogen? *SCIENCE* 196:663-664, 1977.
9. McGuire WL, **Horwitz KB**, Pearson OH and Segaloff A. Current status of estrogen and progesterone receptors in breast cancer. *CANCER* 39:2934-2947, 1977.
10. **Horwitz KB** and McGuire WL. Estrogen control of progesterone receptor in human breast cancer: correlation with nuclear processing of estrogen receptor. *J BIOL CHEM* 253:2223-2228, 1978.
11. McGuire WL, Zava DT, **Horwitz KB**, Garola RE and Chamness GC. Receptors and breast cancer: do we know it all? *J STEROID BIOCHEM* 9:461-466, 1978.
12. **Horwitz KB**, Koseki Y and McGuire WL. Estrogen control of progesterone receptors in human breast cancer: role of estradiol and antiestrogen. *ENDOCRINOLOGY* 103:1742-1751, 1978.

13. **Horwitz KB** and McGuire WL. Nuclear mechanisms of estrogen action: effects of estradiol and antiestrogen on cytoplasmic and nuclear estrogen receptors and nuclear receptor processing. J BIOL CHEM 253:8185-8191, 1978.
14. **Horwitz KB**, Zava DT, Jensen EM and McGuire WL. Human breast cancer cell lines: steroid receptor analyses. CANCER RESEARCH 38:2434-2437, 1978.
15. Zava DT, Landrum B, **Horwitz KB** and McGuire WL. Measurement of androgen receptor with [3H]methyltrienolone in systems containing both androgen and progesterone receptors. ENDOCRINOLOGY 104:1007-1012, 1979.
16. Martin PM, **Horwitz KB**, Ryan DS and McGuire WL. Phytoestrogen interaction with estrogen receptors in human breast cancer cells. ENDOCRINOLOGY 103:1860-1867, 1978.
17. **Horwitz KB** and McGuire WL. Actinomycin D prevents nuclear processing [ligand dependent downregulation] of estrogen receptors. J BIOL CHEM 253:6315-6318, 1978.
18. **Horwitz KB** and McGuire WL. Estrogen control of progesterone receptor induction in human breast cancer: Role of nuclear estrogen receptors. ADV EXP BIOL MED 117:95-110, 1979.
19. **Horwitz KB** and McGuire WL. Studies on mechanisms of estrogen and antiestrogen action in human breast cancer. RECENT RESULTS IN CANCER RESEARCH 71:45-58, 1980.
20. Edwards DP, Martin PM, **Horwitz KB** Chamness GC and McGuire WL. Estrogen receptors in human breast cancer: Subcellular compartmentalization of unfilled sites. EXPERIMENTAL CELL RES 127:197-213, 1980.
21. **Horwitz KB** and McGuire WL. Nuclear estrogen receptors: Effects of inhibitors on processing and steady state levels. J BIOL CHEM 255:9699-9705, 1980.
22. **Horwitz KB**, Aiginger P, Kutten F and McGuire WL. Nuclear estrogen receptor release from antiestrogen suppression: amplified induction of progesterone receptor. ENDOCRINOLOGY 108:1703-1709, 1981.
23. **Horwitz KB**. Is a functional estrogen receptor always required for progesterone receptor induction in breast cancer? J STER BIOCHEM 15:209-217, 1981.
24. **Horwitz KB** and Horwitz LD. Cardiovascular tissues are targets for estrogen, androgen, glucocorticoid and progestin action. J CLIN INVEST 69:750-758, 1982.



25. **Horwitz KB**, Mockus MB and Lessey BA. Variant T47D human breast cancer cells with high progesterone-receptor levels despite estrogen and antiestrogen resistance. *CELL* 28:633-642, 1982.
26. Mockus MB, Lessey BA, Bower MA and **Horwitz KB**. Estrogen insensitive progesterone receptors in a human breast cancer cell line: Characterization of receptors and of a ligand exchange assay. *ENDOCRINOLOGY* 110:1564-1571, 1982.
27. Lessey BA, Alexander PS and **Horwitz KB**. The subunit structure of human breast cancer progesterone receptors: Characterization by chromatography and photoaffinity labeling. *ENDOCRINOLOGY* 112:1267-1274, 1983.
28. Mockus MB and **Horwitz KB**. Progesterone receptors in human breast cancer: Stoichiometric translocation and nuclear receptor processing. *J BIOL CHEM* 258:4778-4783, 1983.
29. **Horwitz KB**, Mockus MB, Pike AW, Fennessey PV and Sheridan RL. Progesterone receptor replenishment in T47D human breast cancer cells: Roles of protein synthesis and hormone metabolism. *J BIOL CHEM* 258:7603-7610, 1983.
30. **Horwitz KB** and Alexander PS. In situ photolinked nuclear progesterone receptors of human breast cancer: subunit molecular weights after transformation and translocation. *ENDOCRINOLOGY* 113:2195-2201, 1983.
31. Sedlacek SM and **Horwitz KB**. The role of progestins and progesterone receptors in the treatment of breast cancer. *STEROIDS* 44:467-484, 1984.
32. **Horwitz KB** and Freidenberg GR. Progestins inhibit growth and increase insulin receptors in antiestrogen resistant T47Dco human breast cancer cells: implications for endocrine therapies. *CANCER RESEARCH* 45:167-173, 1985.
33. **Horwitz KB**. The antiprogestin RU38 486: Receptor mediated progestin versus antiprogestin actions screened in estrogen-insensitive T47Dco human breast cancer cells. *ENDOCRINOLOGY* 116:2236-2245, 1985.
34. Hiatt WR, Travis VL, **Horwitz KB** and Horwitz LD. The effect of platelet protein and DNA on the measurement of human lymphocyte beta andrenergic receptor number. *J RECEPTOR RESEARCH* 5:419-429, 1985.
35. **Horwitz KB**, Francis MD and Wei LL. Hormone-dependent covalent modification and processing of human progesterone receptors in the nucleus. *DNA* 4:451-460, 1985.

36. Wei LL and **Horwitz KB**. The structure of progesterone receptors. *STEROIDS* 24:677-695, 1985.
37. **Horwitz KB**, Wei LL and Francis MD. Structural analyses of progesterone receptors. *J STEROID BIOCHEM* 24:109-117, 1986.
38. Fennessey PV, Pike AW, Gonzalez-Aller C and **Horwitz KB**. Progesterone metabolism in T47Dco human breast cancer cells. I. 5 $\alpha$ -Pregnan-3 $\beta$ ,6 $\alpha$ -diol-20-one is the secreted product. *J STEROID BIOCHEM* 25:641-648, 1986.
39. **Horwitz KB**, Pike AW, Gonzalez-Aller C and Fennessey PV. Progesterone metabolism in T47Dco human breast cancer cells. II. Intracellular metabolic pathway of progesterone and synthetic progestins. *J STEROID BIOCHEM* 25:911-916, 1986.
40. Law ML, Kao FT, Wei Q, Hartz JA, Green GL, Schulz TZ, Conneely OM, Jones C, Puck TT, O'Malley BW and **Horwitz KB**. The progesterone receptor gene maps to human chromosome band 11q13, site of the mammary oncogene int-2. *PROC NATL ACAD SCI, USA* 84:2877-2881, 1987.
41. Estes PA, Suba EJ, Lawler-Heavner J, Wei LL, Toft DO, **Horwitz KB** and Edwards DP. Immunologic analysis of human breast cancer progesterone receptors. I. Immunoaffinity purification of transformed receptors and monoclonal antibody production. *BIOCHEMISTRY* 26:6250-6262, 1987.
42. Wei LL, Sheridan PL, Krett NL, Francis MD, Toft DO, Edwards DP and **Horwitz KB**. Immunologic analysis of human breast cancer progesterone receptors. II. Structural analysis, nuclear phosphorylation and processing. *BIOCHEMISTRY* 26:6262-6272, 1987.
43. **Horwitz KB**. Purification, monoclonal antibody production and structural analyses of human progesterone receptors. *J STEROID BIOCHEM* 31:573-578, 1988.
44. Wei LL, Krett NL, Francis MD, Gordon DF, Wood WM, O'Malley BW and **Horwitz KB**. Multiple human progesterone receptor messenger RNAs and their autoregulation by progestin agonists and antagonists in human breast cancer cells. *MOLEC ENDOCRINOLOGY* 2:62-72, 1988.
45. Sheridan PL, Krett NL, Gordon JA and **Horwitz KB**. Down-regulation of human progesterone receptors is independent of their nuclear phosphorylation. *MOLEC ENDOCRINOLOGY* 2:1329-1342, 1988.
46. Krett NL, Wei LL, Francis M, Nordeen SK, Gordon DF, Wood WM and **Horwitz KB**. Human progesterone A-receptors can be synthesized intracellularly and are

- biologically functional. *BIOCHEM BIOPHYS RES COMMUNIC* 157:278-285, 1988.
47. Sheridan PL, Evans RM and **Horwitz KB**. Phosphotryptic peptide analysis of human progesterone receptors: New phosphorylated sites formed in nuclei after hormone treatment. *J BIOL CHEM* 264(11):6520-6528, 1989.
  48. Sheridan PL, Francis MD and **Horwitz KB**. Synthesis of human progesterone receptors in T47D cells: Nascent A- and B-receptors are active without a phosphorylation-dependent post-translational maturation step. *J BIOL CHEM* 264(12):7054-7058, 1989.
  49. Cappelletti V, Patriarca C, Granata G, Cattoretti G, Coradini D, DiFronzo G and **Horwitz KB**. Progesterone receptor determination in human breast tumors by immunocytochemical and biochemical techniques. *BREAST CANCER RES AND TREATMENT* 14:217-225, 1989.
  50. Graham ML, Bunn PA, Jewett P, Gonzalez-Aller C and **Horwitz KB**. Simultaneous measurement of progesterone receptors and DNA indices by flow cytometry: Characterization of an assay in breast cancer cell lines. *CANCER RESEARCH* 49:3934-3942, 1989.
  51. Graham ML, Lundquist K and **Horwitz KB**. Simultaneous measurement of progesterone receptors and DNA indices by flow cytometry: Analysis of breast cancer cell mixtures and genetic instability of the T47D line. *CANCER RESEARCH* 49:3943-3949, 1989.
  52. **Horwitz KB**, Sheridan PL, Wei LL and Krett NL. Human progesterone receptors: Synthesis, structure, and phosphorylation. *PROG CLIN BIOL RES* 322:41-52, 1990.
  53. Graham ML, Krett NL, Miller LA, Leslie KK, Gordon DF, Wood WM, Wei LL and **Horwitz KB**. Genetic instability and estrogen receptor mutations: Possible elements in the progression of breast cancers to hormone resistance. *CANCER RESEARCH* 50:6208-6217, 1990.
  54. Kastner P, Bocquel MT, Turcotte B, Garnier J-M, **Horwitz KB**, Chambon P and Gronemeyer H. Transient expression of human and chicken progesterone receptors does not support alternative translational initiation from a single mRNA as the mechanism generating two receptor isoforms. *J BIOL CHEM* 265:12163-12167, 1990.
  55. Wei LL, Gonzalez-Aller C, Wood WM and **Horwitz KB**. 5'-heterogeneity in human progesterone receptor transcripts predicts a new amino-terminal truncated "C"-receptor and unique A-receptor messages. *MOLEC ENDOCRINOLOGY* 4:1833-1840, 1990.

56. Takimoto GS, Tasset DM, Miller LA and **Horwitz KB**. Epitope mapping of the anti-human progesterone receptor monoclonal antibody, AB-52. *J STER BIOCHEM AND MOLEC BIOL*, 39:687-692, 1991.
57. Graham ML, Smith JA, Jewett PB and **Horwitz KB**. Heterogeneity of progesterone receptor content and remodeling by tamoxifen, characterize subpopulations of cultured human breast cancer cells: Analysis by quantitative dual parameter flow cytometry. *CANCER RESEARCH*, 52:593-602, 1992.
58. Takimoto GS, Tasset DM, Eppert EC and **Horwitz KB**. Hormone-induced progesterone receptor phosphorylation consists of sequential DNA-independent and DNA-dependent stages. Analysis with zinc finger mutants and the progesterone antagonist ZK98299. *PROC NATL ACAD SCI USA*, 89:3050-3054, 1992.
59. Leslie KK, Tasset DM and **Horwitz KB**. Functional analysis of a mutant estrogen receptor isolated from T47D<sub>CO</sub> breast cancer cells. *AMER J OBSTET GYNEC*, 166:1053-1061, 1992.
60. **Horwitz KB**. The molecular biology of RU486. Is there a role for antiprogestins in the treatment of breast cancer? *ENDOCRINE REVIEWS*, 13:146-163, 1992.
61. Takimoto GS and **Horwitz KB**. Progesterone receptor phosphorylation. Complexities in defining a functional role. *TRENDS IN ENDOCRINOLOGY AND METAB*, 4:1-7, 1993.
62. Sartorius CA, Tung L, Takimoto GS and **Horwitz KB**. Antagonist-occupied human progesterone receptors bound to DNA are functionally switched to transcriptional agonists by cAMP, *J BIOL CHEM*, 5:9262-9266, 1993.
63. **Horwitz KB**. Mechanisms of hormone resistance in breast cancer. *BREAST CANCER RES AND TREATMENT*, 26:119-130, 1993.
64. Tung L, Mohamed KM, Hoeffler JP, Takimoto GS, and **Horwitz KB**. Antagonist-occupied human progesterone B-receptors activate transcription without binding to progesterone response elements, and are dominantly inhibited by A-receptors. *MOLECULAR ENDOCRINOLOGY*, 7:1256-1265, 1993.
65. Crowley ST, Demsey EC, **Horwitz KB** and Horwitz LD. Platelet-induced smooth muscle cell proliferation is modulated by the growth amplification factors serotonin and adenosine diphosphate. *CIRCULATION* 90:1908-1918, 1994.
66. Sartorius CA, Groshong SD, Miller LA, Powell RL, Tung L, Takimoto GS and **Horwitz KB**. New T47D breast cancer cell lines for the independent study of progesterone B- and A-receptors: only B-receptors are switched to transcriptional

- agonists by antiprogestins plus cAMP. *CANCER RESEARCH*, 54:3868-3877, 1994.
67. Sartorius CA, Melville MY, Hovland AR, Tung L, Takimoto GS and **Horwitz KB**. A third transactivation function (AF3) of human progesterone receptors located in the unique N-terminal segment of the B-isoform. *MOLEC ENDOCRINOL*, 8:1347-1360, 1994.
  68. Mohamed KM, Tung L, Takimoto GS and **Horwitz KB**. The leucine zippers of c-Fos and c-Jun for progesterone receptor dimerization. A-dominance in the A/B heterodimer. *J STER BIOCHEM MOLEC BIOL*, 51:241-250, 1994.
  69. **Horwitz KB**. Editorial: When tamoxifen turns bad. *ENDOCRINOLOGY* 136:821-823, 1995.
  70. Takimoto GS, Hovland AR, Tasset DM, Melville MY, Tung L and **Horwitz KB**. Role of phosphorylation on DNA binding and transcriptional functions of human progesterone receptors. *J BIOL CHEM* 271:13308-13316, 1996.
  71. **Horwitz KB**, Jackson TA, Bain DL, Richer JK, Takimoto GS and Tung L. Nuclear receptor coactivators and corepressors. *MOLEC ENDOCRINOL* 10:1167-1177 1996.
  72. Jackson TA, Richer JK, Bain DL, Takimoto GS, Tung L and **Horwitz KB**. The partial agonist activity of antagonist-occupied steroid receptors is controlled by a novel hinge-domain binding coactivator, L7/SPA and the corepressors N-CoR or SMRT. *MOLEC ENDOCRINOL* 11:693-705, 1997.
  73. Petz LN, Nardulli AM, Kim J, **Horwitz KB**, Freedman LP, and Shapiro DJ. DNA bending is induced by binding of the glucocorticoid receptor DNA binding domain and progesterone receptors to their response element. *J STEROID BICHEM MOLEC BIOL* 60:31-41, 1997.
  74. Miller MM, James RA, Richer JK, Gordon DF, Wood WM and **Horwitz KB**. Progesterone regulated expression of flavin-containing monooxygenase 5 is controlled by the B-isoform of progesterone receptors: Implications for tamoxifen carcinogenicity. *J CLIN ENDOCRINOL METAB* 82:2956-2961, 1997.
  75. Groshong SD, Owen GI, Grimison B, Schauer IE, Daly MC, Langan TA, Sclafani RA, Lang CA and **Horwitz KB**. Biphasic regulation of breast cancer cell growth by progesterone: Role of the cdk inhibitors p21 and p27<sup>Kip1</sup>. *MOLEC ENDOCRINOL* 11:1593-1607, 1997.
  76. Richer JK, Lange-Carter C, Wierman AM, Brooks KM, Jackson TA, Tung L, Takimoto GS and **Horwitz KB**. Novel progesterone receptor variants in breast

- cancers and normal breast cells repress transcription by wild-type receptors. BREAST CANCER RES AND TREAT 48:231-241, 1998.
77. Hovland AR, Powell RL, Takimoto GS, Tung L and **Horwitz KB**. An N-terminal inhibitory function (IF) suppresses transcription by the A-isoform but not the B-isoform of human progesterone receptors. J BIOL CHEM, 273:5455-5460, 1998.
  78. Owen GI, Richer JK, Tung L, Takimoto GS, and **Horwitz KB**. Progesterone regulates transcription of the p21<sup>WAF1</sup> cyclin dependent kinase inhibitor gene through Sp1 and CBP/p300. J BIOL CHEM 273:10696-10701, 1998.
  79. Kumar NS, Richer JK, Owen GI, Litman E, **Horwitz KB** and Leslie KK. Selective down-regulation of progesterone receptor isoform B in poorly differentiated human endometrial cancer cells: Implications for unopposed estrogen action. CANCER RESEARCH 58: 1860-1865, 1998.
  80. Pahl PMB, Hodges-Garcia YK, McItesen L, Perryman MB, **Horwitz KB** and Horwitz LD. ZNF207, A novel zinc finger gene on chromosome 6p21.3. GENOMICS 53: 410-412, 1998.
  81. Lange CA, Richer JK, Shen T and **Horwitz KB**. Convergence of Progesterone and Epidermal Growth Factor Signaling in Breast Cancer. Potentiation of Mitogen-Activated Protein Kinase Pathways. J BIOL CHEM. 273: 31308-31316, 1998.
  82. Richer JK, Lange CA, Manning NG, Owen GI, Powell R and **Horwitz KB**. Convergence of Progesterone with Growth Factor and Cytokine Signaling in Breast Cancer. Progesterone Receptors regulate Stat5 expression and activity. J BIOL CHEM. 273: 31317-31326, 1998.
  83. Nagaya T, Chen K-S, Fujieda M, Ohmori S, Richer JK, **Horwitz KB**, Lupski JR and Seo H. Localization of the human nuclear receptor corepressor (hN-CoR) gene between the CMT1A and SMS critical regions of chromosome 17p11.2. GENOMICS 59:339-341, 1999.
  84. Takimoto GS, Graham JD, Jackson TA, Tung L, Powell R, Horwitz LD and **Horwitz KB**. Tamoxifen resistant breast cancer: Coregulators determine the direction of transcription by antagonist-occupied steroid receptors. J STEROID BIOCHEM & MOLEC BIOL, 69: 45-50, 1999.
  85. Hodges-Garcia YK, Richer JK, **Horwitz KB** and Horwitz LD. Variant Estrogen and Progesterone Receptor messages are expressed in vascular smooth muscle. CIRCULATION, 99: 2688-2693, 1999.

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