

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Mailing Address:

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Biographical Background:

Born: New York, New York
Citizenship: U.S.A.

Educational Background:

B.A. summa cum laude, City University of New York, New York, Biology major, June 1965
M.A. in Biology, Harvard University, Cambridge, Massachusetts, June 1966
Ph.D. in Biology, Harvard University, Cambridge, Massachusetts, March 1970
Research Advisor: Professor Fotis C. Kafatos
Postdoctoral (NIH), University of Illinois, Urbana, Department of Physiology and Biophysics.
Sponsor: Professor Jack Gorski, April 1970-September 1971

Professional Employment:

Assistant Professor of Physiology, University of Illinois, College of Medicine at Urbana, and
Department of Physiology and Biophysics, University of Illinois, Urbana, September
1971 - August 1976
Associate Professor of Physiology, August 1976 - August 1982
Visiting Professor (sabbatical), University of California at San Francisco, September 1977 - June
1978, with Prof. Keith Yamamoto, Dept. of Biochemistry and Biophysics
Professor of Physiology, August 1982 - present, and Professor of Cell and Developmental
Biology, January 1989 - present

Honors, Awards and Fellowships:

N.I.H. Predoctoral Fellowship - Developmental Biology, 1965 - 1969
N.I.H. Postdoctoral Fellowship - Endocrinology, 1970 - 1971
National Young Scholar Recognition Award, Amer. Assoc. of University Women, 1981
Ernst Oppenheimer Award, The Endocrine Society, for meritorious research, 1984
Medallion of Honor Award, University of Illinois Mothers Association, for important
contributions to the University, 1987
Thomas A. Murphy University Scholar, for distinction as a member of the faculty of the
University of Illinois, 1987 - 1990
Beckman Associate, Center for Advanced Study, University of Illinois, 1988
Susan G. Komen Foundation Award for breast cancer research, 1988, 1993
MERIT Award from the National Cancer Institute, NIH, 1991 – 1999
Plenary Lecture, Endocrine Society 74th Annual Meeting, 1992
Fellow, American Academy of Arts and Sciences, elected 1993
Faculty Member of the Year Award, University of Illinois College of Medicine, 1994
Scientific Distinction Award, Susan G. Komen Breast Cancer Foundation, 1996

William L. McGuire Memorial Lectureship, University of Texas and Glaxo Wellcome Oncology, 1996
Plenary Lecture, 10th International Congress of Endocrinology, 1996
Thomas Muldoon Memorial Lectureship, Medical College of Georgia, 1998
Jill Rose Award for Breast Cancer Research, The Breast Cancer Research Foundation, 1998
The Ray A. and Robert L. Kroc Lectureship, University of Texas-Houston Health Science Center and M. D. Anderson Cancer Center, 1998
Olof Pearson Lectureship, Case Western Reserve University Cancer Center, 1999
NIEHS Distinguished Lectureship, NIEHS/NIH, 2000, 2005, 2012
Swanlund Professorship, University of Illinois, 2000–present
Professor in the Center for Advanced Studies, University of Illinois, 2000–present
City University of New York Distinguished Alumni Award, 2002
Roy O. Greep Lecture Award, The Endocrine Society, 2006
Laurea ad Honorem (Honorary Degree) from University of Milan, Italy, 2007
Nobel Conference on Estrogen Signaling: From Molecular Insights to Clinical Understanding, Keynote Address, Stockholm, 2008
Susan G. Komen for the Cure Brinker Award for Scientific Distinction, 2009
Mentor Award, Women in Endocrinology, 2011
Plenary Lecturer, The Endocrine Society of Australia, Melbourne, August 2014
Fred Conrad Koch Lifetime Achievement Award, The Endocrine Society, 2016

Professional Activities:

Endocrinology Study Section, NIH, 1979–1983
Biochemical Endocrinology Study Section, NIH, 1995–1999
National Institute of Diabetes, and Digestive and Kidney Diseases (NIH) Board of Scientific Counselors, 1985–1989; Chairman, 1988–1989
Advisory Committee on Biochemistry and Endocrinology, American Cancer Society, 1989–1993; Vice-Chairman, 1992–1993
Grants Review Panel, Susan G. Komen Breast Cancer Foundation, 1994
Grants Review Panel, Endocrine Society Student Fellowship Awards, 1994
President-Elect, The Endocrine Society, 1999–2000
President, The Endocrine Society, 2000–2001
Past-President, The Endocrine Society, 2001–2002
Publications Committee, The Endocrine Society, 1981–1983
Program Committee, The Endocrine Society, 1983–1987
Council, The Endocrine Society, 1989–1992
Nominating Committee, The Endocrine Society, 1994–1997, 2002–2004 and 2016-2019
Awards Committee, The Endocrine Society, 2009–2013
Editorial Board, Endocrinology, 1979–1982 and 1999–2002
Editorial Board, Amer. Journal of Physiology: Cell Physiology, 1981–1988
Editorial Board, Journal of Steroid Biochemistry and Molecular Biology, 1981–2004
Editorial Board, Receptor, 1992–1997
Editorial Board, Endocrine Reviews, 1983–1988
Editorial Board, Molecular Endocrinology, 1994–1997
Scientific Organizing Committee, Meadowbrook-Serono Conference on Steroid Receptors in Health and Disease, 1987, 1992
International Organizing Committee, Intl Congress on Hormones and Cancer, 1987–1999
American Association for Cancer Research, Task Force on Endocrinology, 1987–1989
Chairman, Gordon Research Conference on Hormone Action, August 1988

Central Committee, International Society of Endocrinology, 1988–2000
National Science Foundation, Alan T. Waterman Award Committee, 1989–1991
Scientific Advisory Board, Don Shula Foundation, 1991–1994
Program Committee, Recent Progress in Hormone Research Conference, 1993–1996
Co-Chair, Keystone Symposium on The Nuclear Receptor Superfamily, 2002
NIH Nuclear Receptor Signaling Atlas (NURSA), External Advisory Board, 2002–2012
External Advisory Committee to Breast Cancer SPORE programs – Northwestern Medical, 2002-2006, and Georgetown Medical Center, 1995-2006; DOD Breast Cancer Center of Excellence, Fox Chase Cancer Center, 2006 – 2012
Department of Defense Breast Cancer Review Panel, 2012; and NIH Predoctoral and Postdoctoral Review Panel, 2010 and 2011; NIH NCCAM Grants Review Panel, 2013
Editorial Board, Nuclear Receptor Signaling 2013-2016; and Journal of the Endocrine Society 2016-2018
Associate Editor, NJP Breast Cancer, 2015-Presents

Memberships:

Phi Beta Kappa, The Endocrine Society, American Physiological Society, Society for the Study of Reproduction, Society of Toxicology, American Association for Cancer Research

Areas of Research Experience:

Cancer biology, endocrinology, and women's health. Regulation of gene expression, signal transduction, cell proliferation and other phenotypic properties by hormones and growth factors; mechanisms of hormone and antihormone (SERM) action in normal and cancer cells; functional analyses of nuclear hormone receptors. Basic and translational studies directed at understanding global gene expression regulation by estrogens and genome-wide interactions of estrogen receptors, coregulators, and protein kinases in steroid signaling in reproductive tissues in health and disease, and approaches for preventing or reversing therapy resistance in breast cancer (Present).

Estrogen effects on specific RNA and protein synthesis in the uterus, with particular emphasis on *in vitro* hormone-induced syntheses (Postdoctoral).

Developmental biology: Hormones and enzymes involved in the moulting process in insects (Doctoral).

Current Teaching and Research Activities:

Teaching endocrinology, physiology and molecular and cellular biology and cancer biology to medical students and undergraduate and graduate students. Supervise graduate seminars in Endocrinology, Cancer Biology, Reproductive Biology and Cell Biology. Direct students in research and training in reproductive endocrinology, hormones and cancer, cell biology, cancer biology.

Research students in my laboratory:

Ph.D. 1 current, 37 conferred

M.A. 12 conferred

B.S. 2 current, 25 conferred

Post-doctoral/Visiting Scientists:

4 current, 37 former

Research Support:

- (1) NIH USPHS Grant HD 06726 "Effects of Estrogen on Human Uterine Tissue *in Vitro*"
May 1, 1972 - April 30, 1975
June 15, 1975 - May 30, 1978
June 1, 1978 - May 30, 1981
June 1, 1981 - May 30, 1984
- (2) NIH USPHS Grant CA 18119 "Antiestrogens: Mechanism of Antagonist Action"
December 1, 1975 - November 30, 1978
December 1, 1978 - November 30, 1981
December 1, 1982 - November 30, 1985
December 1, 1985 - November 30, 1990
December 1, 1990 - November 30, 1998 (MERIT Award)
April 1, 1999 – March 31, 2004
May 1, 2004 – April 30, 2010
- (3) NIH USPHS Grant CA 31870 "Cytotoxic Estrogens: Selective Agents for Breast Cancer" February 1, 1983 - January 31, 1986
- (4) NIH USPHS Grant HD 21524/CA 51482 "Progesterone Receptor Regulation"
April 1, 1986 - November 30, 1989
December 1, 1989 - November 30, 1994
- (5) American Cancer Society Grant PDT-370 "Progesterone Receptor Regulation in Breast Cancer" July 1, 1989 - June 30, 1992
- (6) NIH USPHS Grant CA60514 "Dominant Negative Estrogen Receptors and Breast Cancer"
July 1, 1993 - June 30, 1998
July 1, 1998 - April 30, 2004
- (7) U.S. Army Breast Cancer Program Grant DAMD17-94-J-4205
"Cyclic AMP Modulation of Estrogen-Induced Effects: A Novel Mechanism for Hormonal Resistance in Breast Cancer" October 1, 1994 - September 30, 1998
- (8) The Breast Cancer Research Foundation
"Genomic Profiling of the Estrogen Hormonal Pathway for Breast Cancer Prevention and Treatment" October 1, 1998 - September 30, 2017 (renewed yearly)
- (9) NIH/NIA P01 AG024387-01 to 05 (William Helferich, Director; B. S. Katzenellenbogen, Co-PI on Project 4 and Core C Director)
NIH "Phytoestrogens and Aging: Dose, Timing & Target Tissue"
September 1, 2004 – August 31, 2010
- (10) Participant in NIH Training Grants in Reproductive Biology (to University of Illinois, Dr. A. Nardulli, Director); Cell and Molecular Biology (to University of Illinois, Dr. J. Morrissey, Director); Radiation Oncology (to University of Illinois – Dr. W. D. O'Brien, Jr., Director); and Environmental Toxicology (to University of Illinois, Dr. S. Schantz, Director)

- (11) NIH NICHD U54 Center Program in Reproduction and Infertility Research
“Hormone-Regulated Pathways Controlling Implantation and Fertility”
M. Bagchi, Director; Benita S. Katzenellenbogen, Project 2, P.I.
“Nuclear Receptor Coregulators in Implantation and Uterine Function”
April 1, 2008 – March 30, 2014
- (12) NIH, ODS/NCCAM/NCI 1P50 AT006268, Botanical Research Center
“Botanical Estrogens: Mechanisms, Dose, and Target Tissues”
W. Helferich, Director; Benita S. Katzenellenbogen, Project 1, P.I.
“Molecular Mechanisms and Cellular Pathways of Botanical Estrogen Activity”
August 1, 2010 – July 30, 2016; Renewal submitted
- (13) Beckman Institute, UIUC, Seed Grant Initiative
“Genomic Imaging of Breast Cancer”
Stephen Boppart, PI; Benita S. Katzenellenbogen, Co-Investigator with four other faculty
May 15, 2010 – May 14, 2012
- (14) The Breast Cancer Research Foundation
“Development of Novel Antagonist Ligands for Metastatic Breast Cancers Driven by
Estrogen Receptors (ERs) with Activating Mutations”
John A. Katzenellenbogen, PI; Benita S. Katzenellenbogen, Co-Investigator
July 1, 2016 – June 30, 2017

Facilities Development:

NIH Instrumentation Grant IS10 RR02277 for a Fluorescence Activated Cell Sorter System
(\$236,276), December 1984, B. S. Katzenellenbogen, P.I.

Administrative Activities:

- (1) University of Illinois College of Medicine. College Committee on Student Appraisal and on Freshman Subcommittee thereof, September 1971 - June 1976.
- (2) School of Basic Medical Sciences "Medical Manpower Committee." Three-person committee to interview and assess all candidates for academic appointments in the School of Basic Medical Sciences, September 1971 - July 1974.
- (3) College of Medicine at Urbana Executive Committee, October 1976 - July 1980; January 1981 - August 1983; August 1990 - August 1994.
- (4) College of Medicine at Urbana Committee on Committees, October 1976 - July 1980; January 1981 - August 1983; August 1988 - August 1992.
- (5) School of Basic Medical Sciences "Peer Evaluation Committee." Five-person committee to develop guidelines for faculty promotion and tenure, January 1974 - September 1974.
- (6) Physiology Department Graduate Admissions Committee. Five person committee to decide on admissions policies and graduate students admitted to Physiology graduate program, February 1974 - June 1975, July 1976 - August

- 1982, and July 1985 - present. Chairman of Admissions Committee, Fall 1979 - August 1982.
- (7) Department of Physiology and Biophysics Bylaws Committee. Four person committee to develop departmental bylaws and structure, Spring 1974.
 - (8) Member of Search Committee for two endocrinologists. One in the School of Basic Medical Sciences and one in the Department of Physiology and Biophysics, Fall 1972 - Fall 1973.
 - (9) Physiology Department Courses and Curriculum Committee, August 1975 - August 1977 and August 1983 - August 1986 and 1999 - 2000.
 - (10) Alternate Member, University of Illinois Institutional Review Board. To review research proposals involving human subjects, July 1973-June 1979.
 - (11) Search Committee for Executive Dean, College of Medicine, 1979.
 - (12) Salary Equity Committee, School of Life Sciences, 1977.
 - (13) Appointments, Reappointments and Promotions Committee, College of Medicine at Urbana, July 1978 - present.
 - (14) Graduate Qualifying Committee. To admit graduate students to Ph.D. program, August 1978 - June 1979.
 - (15) Undergraduate Physiology student advising, 2-3 students per semester.
 - (16) Planning Committee, University-wide interdisciplinary faculty symposium on Population, October 1978 - May 1979.
 - (17) Research Planning Committee of the School of Basic Medical Sciences, 1981 - 1986.
 - (18) School of Life Sciences Policy Forum Committee. To shape directions for the School of Life Sciences, Fall 1982 - 1986.
 - (19) Physiology and Biophysics Department Advisory Committee. Advisory committee to the department head, August 1981 - August 1984, August 1992 - August 1994.
 - (20) Search Committee for new Head of the Department of Physiology and Biophysics, Fall 1983 and Fall 1987.
 - (21) Chairman, Faculty Committee for the University-wide Cell Science Center, Spring 1985 - Fall 1987.
 - (22) Steering Committee, University of Illinois Biotechnology Center, Spring 1985-1988.

- (23) Executive Committee, University of Illinois, Cell and Molecular Biology Program, 1987-1991 and 1995 - present.
- (24) Search Committee for new faculty members, Department of Cell and Structural Biology, Fall 1988 - 1991.
- (25) Seminar Committee, Department of Cell and Structural Biology, Fall 1990 - 1992, 1995 - 1996, and 1998 - 2000.
- (26) Appointments and Promotions Committee, Department of Cell and Structural Biology, 1990 - 1994.
- (27) Beckman Institute, Program Advisory Committee, Fall 1990 - Fall 1991.
- (28) Graduate Committee, Department of Cell and Structural Biology, Fall 1992 - 1995.
- (29) A. V. Nalbandov Lectureship Committee Chairperson, 1992, 1994, 1997.
- (30) Research Policy Committee, University of Illinois, 1993 - 1995.
- (31) School of Life Sciences Review Committee, 1994 - 1995.
- (32) University Committee on Endowed Appointments, 1995 - 1996 and 2000 – 2003; Chair, 2001 - 2003.
- (33) University Scholar Awards Committee, 1998.
- (34) Graduate Program Committee, Molecular and Cellular Biology School, Fall 1998.
- (35) Search Committee, Vice Chancellor for Research, University of Illinois, Fall 1999 - Spring 2000
- (36) Search Committee, Functional Analysis of Macromolecular Assemblies Faculty Search, School of Molecular and Cellular Biology, Fall 2001 – Spring 2002
- (37) Graduate Program Committee, Molecular and Cellular Biology School, 2002 - 2004.
- (38) Director of the Mills Breast Cancer Institute (Carle, UIUC), Search Committee, 2006.
- (39) UIUC Campus-wide Translational Research Initiatives Strategic Planning Committee, 2006 – 2007.
- (40) Search Committee for Head of Department of Molecular and Integrative Physiology, Fall 2007; Search Committee for New Faculty in Molecular and Cellular Biology, 2009-2010.

- (41) MIP Department Qualifying Exam Committee, 2008-2010.
- (42) CAS (Center for Advanced Studies) Associates and Fellows Selection Committee, 2000-present.
- (43) Faculty Mentoring Committee, Department of Molecular and Integrative Physiology and Department of Cell and Developmental Biology, and Promotions Committee for several faculty members, 2007-present
- (44) UIUC Campus-wide Cancer Community at Illinois Steering Committee, 2011-present.

Seminars and Invited Addresses:

- Harvard University - Developmental Biology, March 1972
- Harvard Medical School - Laboratory for Human Reproduction and Reproductive Biology, March 1973
- Eli Lilly Company, June 1973
- Wabash College - Biology Department, November 1973
- SUNY at Stony Brook - Health Sciences, May 1974
- University of Wisconsin at Madison - Biochemistry Department, May 1974
- University of Illinois - Biochemistry Department, November 1974
- Brown University - Health Sciences, December 1974
- NIH - Reproduction Research Branch, December 1974
- University of Michigan Medical School - Department of Pathology (Reproductive Biology), January 1975
- Southern Illinois University Medical School - Department of Physiology, March 1975
- University of Paris South, Lab Hormones, Bicetre, France, February 1976
- University of Illinois College of Medicine - Physiology Department, Medical Center Chicago, March 1976
- University of Illinois - Dairy Science Department, Urbana, November 1976
- IMC Chemical Corporation, Indiana, January 1977
- University of California Medical Center at San Francisco - Department of Obstetrics and Gynecology, Reproductive Biology, January 1977
- University of California, Berkeley - Symposium on Contraceptive Hormones and Human Welfare, April 1977
- NIH-sponsored symposium on "Ontogeny of receptors and molecular mechanisms of reproductive hormone action", Austin, Texas, August 1977
- University of California at San Francisco - Reproductive Biology, September 1977
- University of California at San Francisco - Hormone Research Lab, January 1978
- Conference on the Estriol Ratio and Breast Cancer, Sponsored by the Guttman Institute and the N.Y. Division of the American Cancer Society, N.Y. City, January 1978
- University of California, Riverside - Biochemistry Department, February 1978
- U.S.-Japanese Conference on Hormones and Receptors in Breast Cancer, sponsored by the National Cancer Institute and the Japanese Government, Hawaii, March 1978
- University of California, Los Angeles - Biology Department and Molecular Biology Institute, April 1978
- Laurentian Hormone Conference, sponsored by the Endocrine Society, Mont Tremblant, Canada, August 1978
- National Center for Toxicological Research and University of Arkansas, Little Rock, September 1978
- Worcester Foundation Symposium on Steroid Hormone Receptor Systems, Worcester Foundation for Experimental Biology, Shrewsbury, Mass., October 1978
- Indiana University Medical School, Departments of Physiology and Biochemistry, November 1978
- University of Wisconsin, Madison, Endocrinology Program, October 1978
- University of Pittsburgh Medical School, Department of Physiology, December 1978
- University of Iowa, Departments of Physiology and Biophysics and Zoology, February 1979
- International Symposium on Steroid Induced Uterine Proteins, Marburg, Germany, September 1979
- First International Congress on Hormones and Cancer, Rome, Italy, October 1979

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- Eighth Brook Lodge Conference on Problems in Reproductive Physiology, Kalamazoo, Michigan, October 1979
- Medical College of Ohio, Toledo, Interdepartmental seminar, September 1980
- Hershey Medical Center, Pennsylvania. Reproductive Biology, October 1980
- University of Wisconsin, Parkside, Life Sciences, October 1980
- McGill University, Montreal, February 1981
- Michigan Cancer Foundation, Topics in Cancer Research Seminar Series, April 1981
- Iowa State University, Zoology and Cell Biology, May 1981
- Fifth International Conference of the Journal of Steroid Biochemistry, Puerto Vallarta, Mexico, July 1981
- University of Maryland Medical School, Department of Physiology, Baltimore, Maryland, October 1981
- National Institute for Environmental and Health Sciences, Raleigh, North Carolina, November 1981
- UCLA-ICN Meeting on Evolution of Hormone Receptor Systems, Squaw Valley, Calif., March 1982
- University of Illinois College of Medicine, Department of Pharmacology, Chicago, April, 1982
- University of Kentucky, Lexington Hormone Research Conference, April, 1982
- Gordon Research Conference, The Mammalian Reproductive Tract, July 1982
- Sixth International Congress on Hormonal Steroids, Jerusalem, Israel, September 1982
- NIH, Reproduction Research and Pregnancy Branch, NICHD, February 1983
- FDA/NIH/WHO Workshop, Animal Testing Guidelines for New Generation Contraceptive Agents, NIH, Bethesda, April 1983
- International Round Table on Recent Advances in Estriol Research, Madeira, Portugal, May 1983
- INSERM, Molecular Endocrinology Unit, Montpellier, France, June 1983
- Gordon Research Conference on Hormone Action, Session Chairman, August, 1984
- University of Chicago, Ben May Laboratory for Cancer Research, Chicago, Illinois, November 1983
- Michigan Cancer Foundation and Comprehensive Cancer Center of Detroit, Symposium on Antiestrogens and Breast Cancer, March 1984
- American Association for Cancer Research, 75th Annual Meeting, Chairman and Speaker, Minisymposium on Receptors and Breast Cancer, Toronto, Canada, May 1984
- International Conference on Estrogens and Antiestrogens, Madison, Wisconsin, June 1984
- Seventh International Congress of Endocrinology, Symposium speaker, Quebec, Canada, July 1984
- University of Rochester Medical Center, Cancer Center and Pharmacology, November 1984
- Seventh Annual San Antonio Breast Cancer Conference, Plenary lecture, December 1984
- Johns Hopkins University Medical School, Population Biology, March, 1985
- International Minerals and Chemical Corporation, Indiana, April 1985
- Gordon Research Conference, Hormone Action, August 1985
- Sixth European Congress on Clinical Chemistry, Jerusalem, Israel, September 1985
- Weizmann Institute of Science, Department of Hormone Research, Rehovot, Israel, September 1985
- University of Illinois, Department of Physiology and Biophysics, October 1985

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- University of Illinois Know Your University Series Speaker, "Cancer Research at the University of Illinois", November 1985
- West Virginia University Medical Center, Morgantown, Endocrinology Program and Department of Physiology, November 1985
- University of Texas Southwestern Medical School at Dallas, Reproductive Sciences, February 1986
- Marquette University Symposium on Receptors as Physiologic Regulators, Plenary lecture, March 1986
- FASEB Symposium lecture on Hormone Receptors, Pharmacology Society, St. Louis, April 1986
- First International Congress on Cancer and Hormones, Symposium lecture, Rome, Italy, April 1986
- University of Pennsylvania Medical School, Department of Obstetrics and Gynecology and Reproductive Sciences, May 1986
- Biotechnology Center Symposium on Monoclonal Antibodies, University of Illinois, May 1986
- Northwestern University, Program for Reproductive Research and Departments of Physiology and Neurobiology, October 1986
- Texas Tech University, Departments of Biochemistry and Reproductive Sciences, March 1987
- Rutgers University, Departments of Physiology and Biochemistry, April 1987
- Yale University Medical School, Departments of Biochemistry and Obstetrics and Gynecology, April 1987
- Harvard Medical School, Laboratory of Human Reproduction and Reproductive Biology, April 1987
- University of Wisconsin--Madison, Department of Physiology, April 1987
- Eighth International Symposium of the Journal of Steroid Biochemistry, Paris, France, May 1987
- Meadowbrook Symposium on Steroid Receptors in Health and Disease, Oakland, Michigan, September 1987
- Medical College of Virginia and Fairfax Hospital, Symposium on Advances in Reproductive Medicine, October 1987
- AAAS Symposium, Frontiers in Reproductive Biology, Boston, February 1988
- University of Chicago, Ben May Laboratory for Cancer Research, March 1988
- Eighth International Congress of Endocrinology, Kyoto, Japan, July 1988
- International Symposium on Sex Steroid-Dependent Tumors, Tokyo, Japan, July 1988
- Fourth International Symposium on Cellular Endocrinology, Lake Placid, NY, August 1988
- University of Missouri, Reproductive Sciences, Veterinary and Biomedical Sciences, Columbia, November 1988
- Baylor College of Medicine, Cell Biology, March 1989
- University of Illinois College of Medicine, Ob/Gyn and Medical Sciences, Chicago, March 1989
- Case Western Reserve University, Physiology and Biophysics, April 1989
- American Association for Cancer Research, Symposium talk, San Francisco, May 1989
- Gordon Research Conference on Hormonal Carcinogenesis, July 1989
- University of Illinois, Department of Veterinary Pathobiology, October 1990
- Boston University, Department of Biology, January 1990
- American Association for Cancer Research Special Conference on Steroid Receptors, Transcription Factors and Gene Expression, San Diego, February 1990

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Tufts University Medical School, Department of Cell Biology and Anatomy, May 1990
Gordon Research Conference on Hormone Action, August 1990
National Cancer Institute-(NIH)-Sponsored Conference on Current Approaches in Breast Cancer research and Therapies, St. Michaels, Maryland, September 1990
University of Indiana Medical School and Eli Lilly Company, Indianapolis, October 1990
Breast Cancer Think Tank Meeting, Copper Mountain, Colorado, January 1991
University of Texas Medical Center, Houston, Department of Obstetrics/Gynecology and Reproductive Sciences, February 1991
University of Illinois College of Medicine at Chicago, Department of Obstetrics and Gynecology, March 1991
University of Rochester Medical Center, Department of Biochemistry, May 1991
University of Pennsylvania Medical School, Pharmacological Sciences and Biochemistry, July 1991
Cell and Molecular Biology/Molecular Biophysics Training Grant Symposium Keynote Address, University of Illinois, September 1991
Institute for Hormone and Fertility Research, University of Hamburg, Hamburg, Germany, September 1991
Mayo Clinic, Department of Biochemistry and Molecular Biology, October 1991
Breast Cancer Think Tank Meeting, Bonaire, January 1992
Keystone Symposium on the Steroid/Thyroid Receptor Gene Super Family, Tamarron, Colorado, February 1992
Keystone Symposium on Breast and Prostate Cancer, Lake Tahoe, California, March 1992
Marion Merrell Dow Inc., Cincinnati, Ohio, March 1992
National Cancer Institute Breast Cancer Research Discussion Panel, NIH, April 1992
Beckman Institute, University of Illinois, Conference on Receptor Proteins: Structure, Function and Modeling, May 1992
Endocrine Society 74th Annual Meeting, Plenary Lecture, San Antonio, Texas, June 1992
Eli Lilly Co., Indianapolis, Indiana, July 1992
Satellite Symposium Ninth International Congress of Endocrinology, "Breast Cancer: Molecular Biology to the Clinic", Nice, France, August 1992
Ninth International Congress of Endocrinology, Symposium Lecture, Nice, France, August 1992
Meadowbrook Conference on Steroid Receptors in Health and Disease, Rochester, Michigan, October 1992
Saint Louis University Medical Center, Department of Pharmacological and Physiological Sciences, November 1992
President's Special Commission on Breast Cancer, Bethesda, Maryland, November 1992
William L. McGuire Memorial Symposium, University of Texas Health Sciences Center, San Antonio, January 1993
Breast Cancer Think Tank Meeting, Turks and Caicos Island, January 1993
Rockefeller University-Cornell Medical School-Sloan Kettering-Population Council Inter-Institutional Endocrine Research Seminar, April 1993
Wayne State University Medical School, Departments of Physiology and Biochemistry, April 1993
Eleventh International Symposium of the Journal of Steroid Biochemistry and Molecular Biology, Seefeld, Austria, May 1993
Gordon Research Conference on Hormone Action, August 1993
NIEHS - Research Triangle Reproductive Biology symposium, Plenary Speaker, January 1994
Breast Cancer Think Tank Meeting, Cancun, Mexico, January 1994

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Keystone Symposium on Steroid/Thyroid/Retinoic Acid Super Gene Family, Taos, New Mexico, February 1994
University of Illinois College of Medicine, Ob/Gyn Seminar Program, Urbana, March 1994
Komen Breast Cancer Foundation Educational Forum, Keynote Speaker (2 lectures), March 1994, Peoria, Illinois
FASEB Annual Meeting, Special Symposium on Steroid/Thyroid Hormone Signaling Pathways, Anaheim, California, April 1994
First International Symposium on Steroids and Bone, Plenary Speaker, Florence, Italy, May 1994
Ninth Vitamin D Workshop, Plenary Speaker, Orlando, Florida, May 1994
Symposium on Endocrine Resistance in Breast Cancer, Cambridge, England, September 1994
Ninth International Congress on Hormonal Steroids, Dallas, Texas, September 1994
University of Wisconsin, Madison, Reproductive Biology Program, November 1994
Michigan State University, Cancer Center, December 1994
American Association for Cancer Research Symposium on the Nuclear Receptor Superfamily of transcription Factors, Whistler, British Columbia, January 1995
Breast Cancer Think Tank Meeting, January 1995
University of Virginia, Charlottesville, Reproductive Biology Program, April 1995
Southwestern Medical School at Dallas, Physiology, Biochemistry and Reproductive Sciences, April 1995
Schering Workshop on Gene Regulation by Hormones, Berlin, Germany, May 1995
Society for the Study of Reproduction, 28th Annual Meeting, Plenary State-of-the-Art lecture, Davis, California, July 1995
Gordon Research Conference on Hormonal Carcinogenesis, August 1995
Fourth International Bone Forum, Yokohama, Japan, November 1995
Breast Cancer Think Tank Meeting, January 1996
Vanderbilt University Medical School, Reproductive Biology Program, February 1996
Oregon Health Sciences University and Oregon Regional Primate Center, Portland, March 1996
Keystone Symposium on Steroid/Thyroid/Retinoic Acid Gene Family, Lake Tahoe, California, March 1996
American Association for Cancer Research, Annual Meeting Symposium Lecture, Washington DC, April 1996
Tenth International Congress of Endocrinology, Plenary Speaker, San Francisco, June 1996
21st Meeting of the International Association for Breast Cancer Research, Paris, France, July 1996
University of Colorado Health Sciences Center, Denver, Cell and Molecular Biology Program, September 1996
University of Wisconsin, Madison, Steroid Receptor Superfamily Symposium, September 1996
University of Texas Southwestern Medical Center, Dallas, Reeves Symposium on Breast Cancer Research, October 1996
Komen Foundation Breast Cancer Symposium, Dallas, October 1996
19th Annual San Antonio Breast Cancer Symposium, Plenary Speaker, December 1996
7th Annual Breast Cancer Think Tank Meeting, Georgetown University Medical Center, January 1997
University of Michigan, Ann Arbor, Cell and Molecular Biology Program, February 1997
American Physiological Society, In Focus Experimental Biology 1997, Washington DC, Symposium Organizer and Speaker, April 1997
EMBO Workshop on Nuclear Receptors, Sicily, May 1997
Frontiers in Estrogen Action, Key West, Florida, May 1997

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International Union Against Cancer (UICC) Meeting on Cancer Research, Woods Hole, MA, June 1997

Gordon Research Conference on Hormone Action, New Hampshire, August 1997

NCI, NIH, Breast Cancer Program Review Workshop, September 1997

American Cancer Society Schilling Symposium, Santa Cruz, CA, September 1997

Estrogen Action Workshop, Newark, New Jersey, October 1997

Department of Defense, Army Breast Cancer “Era of Hope” Program, Washington, DC, November 1997

Signal Pharmaceutical Co., San Diego, CA, November 1997

8th Annual Breast Cancer Think Tank Meeting, Georgetown University Medical Center, January 1998

Keystone Symposium, Nuclear Receptor Gene Family, Lake Tahoe, CA, March 1998

9th Thomas Muldoon Memorial Lecture, Medical College of Georgia, Augusta, May 1998

University of Illinois Functional Foods for Health Symposium, Allerton, IL, May 1998

Frontiers in Estrogen Action, San Juan, Puerto Rico, May 1998

Endocrine Society, Symposium on Receptor Pharmacology, New Orleans, June 1998

Karolinska Institute and Karo Bio, Stockholm, Sweden, June 1998

Merck Pharmaceutical Company, Rahway, New Jersey, September 1998

University of Illinois, Conference on Estrogens and Human Health, Urbana, IL, October 1998

Breast Cancer Research Foundation, Forum on Hormones and Breast Cancer, New York City, NY, October 1998

The Ray A. and Robert L. Kroc Lectureship, University of Texas-Houston Health Science Center and M. D. Anderson Cancer Center, 1998

Dana Farber Cancer Institute, Harvard Medical School, Boston, MA, December 1998

9th Annual Breast Cancer Think Tank Meeting, Georgetown University Medical Center Washington, DC, January 1999

Society for Gynecologic Investigation, Symposium Lecture, Atlanta, GA, March 1999

Keystone Symposium, Molecular Pathogenesis of Bone Diseases, Lake Tahoe, CA, March 1999

Frontiers in Estrogen Action, Los Angeles, CA, April 1999

American Association for Cancer Research, Symposium Lecture, Philadelphia, PA, April 1999

Cancer Biology Seminar Series, University of Chicago, May 1999

Nobel Symposium on Estrogens and Women's Health – Benefit or Threat?, Karlskoga, Sweden, July 1999

Recent Progress in Hormone Research Conference, Stevenson, WA, August 1999

Progestins and Antiprogestins at the Millennium, International Hormones and Cancer Satellite Meeting, Jerusalem, Israel, August 1999

International Hormones and Cancer Congress, Jerusalem, Israel, September 1999

Women's Health Institute, Wyeth-Ayerst, Philadelphia, PA, September 1999

Champaign-Urbana Cancer Conference, Keynote Speaker, Champaign, IL, September 1999

Radiation Oncology Training Program, University of Illinois, September 1999

Symposium on SERMs: Implication for Prevention and Treatment of Cancer, Fox Chase Cancer Center, Philadelphia, PA, November 1999

Olof Pearson Lectureship, Case Western Reserve University Cancer Center, Cleveland, OH, November 1999

NIEHS Distinguished Lecture Series, Research Triangle Park, NC, February 2000

University of Utah and Society for Gynecological Investigation, Reproductive Sciences 2000: Technology in the Service of Biology, Salt Lake City, UT

Legacy Symposia of the Immokalee Foundation and American Cancer Society, Frontiers in Cancer Research, Tampa, FL, March 2000

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Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000
Frontiers in Estrogen Action, Palm Beach, FL, April 2000
NIH Workshop on the Selective Estrogen/Androgen Receptor Modulators (SERMs & SARMs), Bethesda, MD, April 2000
11th International Congress of Endocrinology, Symposium Lecture, Sydney, Australia, November 2000
International Conference on Hormones and Cancer, Port Douglas, Australia, November 2000
Distinguished Guest Lectureship, Baylor College of Medicine, Houston, TX, December 2000
Frontiers in Estrogen Action, Shannon, Ireland, April 2001
Nuclear Receptors Meeting, Oslo, Norway, August 2001
Center for Advanced Study, Eleventh Annual Lecture, University of Illinois at Urbana-Champaign, September 2001
Pharmaceutical Society of Korea International Conference, Plenary Lecture, Seoul, October 2001
Department of Physiology Seminar Series, Southern Illinois University, Carbondale, IL, November 2001
University of Maryland □ Johns Hopkins University Lectureship in Reproductive Biology, Baltimore, MD, November 2001
12th Annual Breast Cancer Think Tank Meeting, St. Maarten, Netherlands Antilles, January 2002
Signal Transduction Colloquium, Duke University Medical Center, Durham, NC, February 2002
Seminars in Molecular Medicine, Northwestern University Medical School, Evanston, IL, March 2002
Frontiers in Estrogen Action, Amelia Island, FL, April 2002
Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002
ENDO 2002 – 84th Annual Endocrine Society Meeting, Symposium Lecture, San Francisco, June 2002
Breast Cancer Targeted Therapies, Maui, HI, July 2002
Indiana University, Department of Biology, Bloomington, IN, October 2002
Greater New Orleans Foundation (GNOF) Distinguished Lecture on Women's Health and the Environment at e.hormone 2002, New Orleans, LA, October 2002
National Institutes of Health Conference on The Women's Health Initiative and Menopausal Hormone Therapy, Bethesda, MD, October 2002
Anita Payne Lecture, University of Michigan Reproductive Sciences Program and Annual Poster Day, Ann Arbor, MI, November 2002
13th Annual Breast Cancer Think Tank Meeting, Aruba, Dutch Caribbean, January 2003
Illinois State University, Seminar, Department of Biochemistry and Molecular Biology, Bloomington, IL, March 2003
Frontiers in Estrogen Action, The Homestead, Hot Springs, VA, April 2003
EMBO Workshop, Biology of Nuclear Receptors, Villeneuve-sur-Mer, France, June 2003
Breast Cancer Targeted Therapies, Kona, HI, July 2003
Society of the Study of Reproduction, Plenary State-of-the-Art Lecture, A 2003 Perspective of Estrogen Receptor Mechanisms and Cellular Regulation, Cincinnati, OH, July 2003
American Association for Cancer Research, Advances in Breast Cancer Research: Genetics, Biology, and Clinical Implications, Huntington Beach, CA, October, 2003
Massachusetts General Hospital, Endocrine Grand Rounds, Harvard Medical School, Boston, MA, November 2003
Nuclear Receptors and Endocrine Disorders, Jensen Symposium on Nuclear Receptors and Endocrine Diseases, Cincinnati, OH, December 2003

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- 14th Annual Breast Cancer Think Tank Meeting, St. Kitts, West Indies, January 2004
Keystone Symposium, Nuclear Receptors, Keystone, CO, February 2004
American Association for Cancer Research 95th Annual Meeting, Nuclear Receptors and Cancer Prevention, Chairperson and Symposium lecture, Orlando, FL, March 2004
Midwest Breast Institute and University of Illinois College of Medicine, Targeting Breast Cancer: Genomic Approaches toward Advances in Prevention and Treatment, Urbana, IL, April 2004
National Institute on Aging, Workshop on Biology of the Perimenopause: Impact on Health and Aging, Bethesda, MD, May 2004
FASEB Summer Research Conference, Steroid Hormone Receptors: Integration of Plasma-Membrane and Nuclear-Initiated Signaling in Hormone Action, Tucson, AZ, July 2004
- 12th International Congress of Endocrinology, Symposium Lecture, Lisbon, Portugal, August 2004
2nd Symposium on Estrogens and Human Health, University of Illinois, October 2004
Breast Cancer Research Foundation, Symposium on The Biology of Breast Cancer, New York, NY, October 2004
American Association for Cancer Research, Advances in Cancer Prevention, Seattle, WA, October 2004
15th Annual Breast Cancer Think Tank Meeting, Grand Cayman, January 2005
Keystone Symposium, Hormonal Regulation of Tumorigenesis, Keystone, CO, February 2005
MD Anderson Cancer Center, Houston, TX, Distinguished Lectureship in Oncology, February 2005
NIEHS/NIH Distinguished Scientist Lecture, Research Triangle Park, NC, March 2005
University of Illinois at Chicago Cancer Center Grand Rounds Seminar, Chicago, IL, March 2005
University of Texas Southwestern Medical Center at Dallas, Department of Biochemistry and Molecular Biology, April 2005
8th Frontiers in Nuclear Receptor Action, Phoenix, AZ, April 2005.
ENDO 2005 – 87th Annual Endocrine Society Meeting, Symposium Lecture, San Diego, CA, June 2005
8th Annual Targeted Therapies for the Treatment of Breast Cancer Symposium, Dana Point, CA, July 2005
Keystone Symposium, Tissue Selective Nuclear Receptors, Breckenridge, CO, September 2005
16th Annual Breast Cancer Think Tank Meeting, Grand Cayman, January 2006
Ernst Schering Foundation Symposium, Tissue-Specific Estrogen Actions: Novel Mechanisms, Novel Ligands, Novel Therapies?, Berlin, Germany, March 2006
Keystone Symposium, Nuclear Receptors: Steroid Sisters, Banff, Canada, March 2006
9th Frontiers in Nuclear Receptor Action, April 2006
Roy O. Greep Award lecture, ENDO 2006, 88th Annual Endocrine Society Mtg., Boston, June 2006
ASCO, Development of Molecular Therapeutics in Breast Cancer, Aspen, CO, August 2006
12th International Congress on Hormonal Steroids and Hormones and Cancer, Plenary Lecture, Athens, Greece, September 2006
Saint Louis University School of Medicine, Louis D'Agrosa Memorial Lecture Speaker, October 2006
Washington University School of Medicine, Department of Oncology, October 2006
17th Annual Breast Cancer Think Tank Meeting, Cancun, Mexico, January 2007

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- University of Virginia, Departments of Microbiology and Molecular Biology and Cancer Center, Charlottesville, February 2007
- 10th Frontiers in Nuclear Receptor Action Conference, April 2007
- EMBO Conference on Nuclear Receptors in Health and Disease, Hotel Gardone Riviera, Italy, May 2007
- International Conference on Rapid Responses to Steroid Hormones, Dublin, Ireland, September 2007
- University of Michigan, 125th Year Celebration of the Department of Physiology, Keynote Speaker, September 2007
- 39th International Congress of Pharmacology and Experimental Therapeutics, Keynote Speaker, Sao Paulo, Brazil, October 2007
- University of Milan, Italy, Laurea ad Honorem Ceremony, Research Lecture, November 2007
- Fred Hutchinson Cancer Research Center, University of Washington, Seattle, December 2007
- 18th Annual Breast Cancer Think Tank Meeting, Kona, Hawaii, January 2008
- Keystone Conference on the Nuclear Receptor Superfamily, Plenary Symposium Talk, Whistler, Canada, March 2008
- 11th Frontiers in Nuclear Receptor Action Conference, Savannah, Georgia, April 2008
- NIH/NCI Meeting on Hormone Refractory Tumors, Bethesda, Maryland, May 2008
- Distinguished Scientist Award lecture, Clinical Laboratory Assay Society, Coral Gables, Florida, June 2008
- FASEB Conference on Extranuclear Steroid Receptors and Integration with Multiple Signaling Pathways, Carefree, Arizona, July 2008
- Nobel Conference on “Recent Advances in Understanding Estrogen Signaling: From Molecular Insights to Clinical Implications”, Keynote Speaker, Stockholm, Sweden, September 2008
- 19th Annual Breast Cancer Think Tank Meeting, Costa Rica, January 2009
- 12th Nuclear Receptor Frontiers Meeting, Sanibel, Florida, April 2009
- Gordon Research Conference on Hormone Action in Development and Cancer, Keynote Address, Holderness School, New Hampshire, July 2009
- 2nd Jensen Symposium on Nuclear Receptors, University of Cincinnati Medical Center, October 2009
- Chinese Medicinal Chemistry Symposium, Plenary Talk, Wuhan, China, October 2009
- Wuhan University, Life and Chemical Sciences Division, Wuhan, China, October 2009
- Komen Brinker Award Lecture, San Antonio Breast Cancer Symposium, San Antonio, TX, December 2009
- 20th Annual Breast Cancer Think Tank Meeting, Barbados, January 2010
- Keystone Symposium on Nuclear Receptors: Signaling, Gene Regulation, and Cancer/Nuclear Receptors: Development, Physiology and Disease, Plenary Talk, Keystone, Colorado, March 2010
- 13th Nuclear Receptor Frontiers Meeting, Philadelphia, PA, April 2010
- Ewha Women’s University, Department of Pharmaceutical Sciences, Seoul, Korea, May 2010
- 10th International Aromatase and Steroid Hormones Congress, Edinburgh, Scotland, September 2010
- 4th Great Lakes Nuclear Receptor Meeting, Keynote Speaker, Ann Arbor, MI, October 2010
- Young Survivors Breast Cancer Coalition Forum, Invited Speaker, Champaign, IL, October 2010
- Botanical Research Centers Annual Meeting, Rockville, MD, November 2012
- 21st Annual Breast Cancer Think Tank Meeting, Jamaica, January 2011
- First International Steroids Research Conference, Chicago, IL, March 2011

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- 14th Nuclear Receptors Frontiers Meeting, Washington, D.C., April 2011
Karolisuka Symposium on Advances in Estrogen Receptor Beta Research, Keynote Speaker, Stockholm, Sweden, May 2011
Endocrine Society Annual Meeting, Plenary Lecture, Boston, MA, June 2011
Botanical Research Centers Annual Meeting, Wake Forest Univ., Winston-Salem, NC, Nov. 2011
22nd Annual Breast Cancer Think Tank Meeting, Riviera Maya, Mexico, January 2012
Northwestern University and Medical School, Chicago, Reproductive Sciences and Endocrinology Programs, February 2012
University of Texas Southwestern Medical School, Dallas, Reproductive Sciences and Molecular and Cellular Biology, February 2012
University of Illinois Cancer Center, Research Forum, Chicago, Keynote Speaker, March 2012
15th Nuclear Receptors Frontiers Meeting, Fort Myers, FL, May 2012
FASEB Meeting on Integration of Steroid Receptor Signaling, Snowmass, CO, July 2012
NIEHS Distinguished Lecture Series, Research Triangle, NC, September 2012
Botanical Research Centers Annual Meeting, NIH Bethesda, MD, November 2012
23rd Annual Breast Cancer Think Tank Meeting, Dominican Republic, January 2013
AACR 104th Annual Meeting, Washington, DC, April 2013
Botanical Research Centers Annual Meeting, Baton Rouge, LA, November 2013
University of Pittsburgh School of Medicine, Pharmacology & Chemical Biology, November 2013
Keystone Symposium on Nuclear Receptors: Biological Networks, Genome Dynamics and Disease, Invited Speaker, Taos, NM, January 2014
Interdisciplinary Environmental Toxicology Seminar, University of Illinois at Urbana-Champaign, February 2014
18th Annual Laura Evans Memorial Breast Cancer Symposium, Sun Valley, ID, March 2014
Endocrine Society of Australia Annual Meeting, Plenary Speaker, Melbourne, Australia, August 2014
Cold Spring Harbor Laboratory Nuclear Receptors and Disease, Cold Spring Harbor, NY October 2014
24th Annual Breast Cancer Think Tank Meeting, Grand Cayman, January 2015
Breast Cancer Research Foundation Symposium on Breast Cancer Therapy Resistance, Memorial Sloan Kettering Cancer Center, New York, NY, October 2015
3rd Congress on Steroid Research, Chicago, IL, November 15-18, 2015
25th Annual Breast Cancer Think Tank Meeting, St. Kitts, January 2016
ENDO 2016 Annual Meeting and Expo, Symposium and Lecture, Boston, MA, April 2016
Deans Distinguished Lecture, University of Arkansas for Medical Sciences, Little Rock, AR, April 2016
Symposium on Estrogens and Tissue Selective Estrogen Actions in Women's Health, Pfizer, Tampa, FL, April 2016
Seminar, Université de Toulouse Medical Center and Toulouse Cancer Center, Toulouse, France, June 22, 2016.
Cancer Cell Signaling Seminar, Loyola Medical Center, Cardinal Bernardin Cancer Center, Chicago, IL, September 28, 2016
26th Annual Breast Cancer Think Tank Meeting, St. Kitts, January 2017

Publications (Excluding Abstracts and Book Chapters):

1. Katzenellenbogen, B. S., and Kafatos, F. C. Some properties of silkmouth moulting gel and moulting fluid. J. Insect Physiol. 16:2241-2256, 1970.
2. Katzenellenbogen, B. S., and Kafatos, F. C. Proteinases of silkmouth moulting fluid: Physical and catalytic properties. J. Insect Physiol. 17:775-800, 1971.
3. Katzenellenbogen, B. S., and Kafatos, F. C. Inactive proteinases in silkmouth moulting gel. J. Insect Physiol. 17:823-832, 1971.
4. Katzenellenbogen, B. S., and Kafatos, F. C. General esterases of silkmouth moulting fluid: Preliminary characterization. J. Insect Physiol. 17: 1139-1151, 1971.
5. Katzenellenbogen, B. S., and Gorski, J. Estrogen action in vitro. Induction of the synthesis of a specific uterine protein. J. Biol. Chem. 247:1299-1305, 1972. **PMID: [4335193](#)**
6. Ruh, T. S., Katzenellenbogen, B. S., Katzenellenbogen, J. A., and Gorski, J. Estrone interaction with the rat uterus: In vitro response and nuclear uptake. Endocrinology 92:125-134, 1973. **PMID: [4681918](#)**
7. Gorski, J., Katzenellenbogen, B. S., and DeAngelo, A. Gene expression as a site of estrogen action. Proceedings of the Fourth International Congress of Endocrinology. Excerpta Medica International Congress Series 273:388-393, 1973. **PMID:**
8. Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Antiestrogens: Studies using an in vitro estrogen-responsive uterine system. Biochem. Biophys. Res. Comm. 50:1152-1159, 1973. **PMID: [4347895](#)**
9. Katzenellenbogen, B. S., and Williams, L. B. Uterine estrogen-induced protein: Physical and immunological comparison with ovalbumin. Proc. Natl. Acad. Sci. USA 71:1281-1285, 1974. **PMID: [4133849](#)**
10. Katzenellenbogen, B. S., and Leake, R. E. Distribution of the oestrogen-induced protein, IP, and of total protein between endometrial and myometrial fractions of the immature and mature rat uterus. J. Endocrinol. 63:439-449, 1974. **PMID: [4452816](#)**
11. Katzenellenbogen, B. S., and Greger, N. G. Ontogeny of uterine responsiveness to estrogen during early development in the rat. Mol. Cell. Endocrinol. 2:31-42, 1974. **PMID: [4455530](#)**
12. Katzenellenbogen, B. S. Synthesis and inducibility of the estrogen-induced protein, IP, during the rat estrous cycle: Clues to uterine estrogen sensitivity. Endocrinology 96:289-297, 1975. **PMID: [163181](#)**
13. Katzenellenbogen, J. A., Hsiung, H. M., Carlson, K. E., McGuire, W. L., Kraay, R. J., and Katzenellenbogen, B. S. Iodohesterols II: Characterization of the binding and estrogenic character of iodinated hexestrol derivatives, in vitro and in vivo. Biochemistry 14:1742-1750, 1975. **PMID: [164893](#)**

14. Katzenellenbogen, B. S., and Ferguson, E. R. Antiestrogen action in the uterus: Biological ineffectiveness of nuclear bound estradiol after antiestrogen. *Endocrinology* 97:1-12, 1975. **PMID: [166821](#)**
15. Lan, N. C., and Katzenellenbogen, B. S. Temporal relationships between hormone receptor binding and biological responses in the uterus: Studies with short- and long-acting derivatives of estriol. *Endocrinology* 98:220-227, 1976. **PMID: [174891](#)**
16. Schmidt, W. N., Sadler, M. A., and Katzenellenbogen, B. S. Androgen-uterine interaction: Nuclear translocation of the estrogen receptor and induction of the synthesis of the uterine induced protein (IP) by high concentrations of androgens *in vitro* but not *in vivo*. *Endocrinology* 98:702-716, 1976. **PMID: [177269](#)**
17. Ferguson, E. R., and Katzenellenbogen, B. S. A comparative study of antiestrogen action: Temporal patterns of antagonism of estrogen stimulated uterine growth and effects on estrogen receptor levels. *Endocrinology* 100:1242-1251, 1977. **PMID: [849721](#)**
18. Katzenellenbogen, B. S., Ferguson, E. R., and Lan, N. C. Fundamental differences in the action of estrogens and antiestrogens on the uterus. Comparison between compounds with similar duration of action. *Endocrinology* 100:1252-1259, 1977. **PMID: [849722](#)**
19. Tsai, T. L., and Katzenellenbogen, B. S. Antagonism of development and growth of 7,12-dimethylbenz(a)anthracene-induced rat mammary tumors by the antiestrogen U23,469 and concomitant effects on estrogen and progesterone receptors. *Cancer Research* 37:1537-1545, 1977. **PMID: [404032](#)**
20. Bhakoo, H. S., and Katzenellenbogen, B. S. Progesterone antagonism of estradiol-stimulated uterine "Induced Protein" synthesis. *Mol. Cell. Endocrinol.* 8:105-120, 1977. **PMID: [72697](#)**
21. Bhakoo, H. S., and Katzenellenbogen, B. S. Progesterone modulation of estrogen-stimulated uterine biosynthetic events and estrogen receptor levels. *Mol. Cell. Endocrinol.* 8:121-124, 1977. **PMID: [924010](#)**
22. Katzenellenbogen, B. S., Iwamoto, H. S., Heiman, D., Lan, N. C., and Katzenellenbogen, J. A. Stilbestrols and stilbestrol derivatives: Estrogenic potency and temporal relationships between estrogen receptor binding and uterine growth. *Mol. Cell. Endocrinol.* 10:103-113, 1978. **PMID: [564791](#)**
23. Katzenellenbogen, B. S., Katzenellenbogen, J. A., Ferguson, E. R., and Krauthammer, N. Antiestrogen interaction with uterine estrogen receptors. Studies with a radiolabeled antiestrogen (CI-628). *J. Biol. Chem.* 253:697-707, 1978. **PMID: [621199](#)**
24. Pavlik, E. J., and Katzenellenbogen, B. S. Human endometrial cells in primary tissue culture: Estrogen interactions and modulation of cell proliferation. *J. Clin. Endocrinol. Metab.* 47:333-344, 1978. **PMID: [263301](#)**
25. Katzenellenbogen, B. S., Katzenellenbogen, J. A., and Mordecai, D. Zearalenones: Characterization of the estrogenic potencies and receptor interactions of a series of fungal β -resorcylic acid lactones. *Endocrinology* 105:33-40, 1979. **PMID: [446414](#)**

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26. Schmidt, W. N., and Katzenellenbogen, B. S. Androgen-uterine interactions: An assessment of androgen interaction with the testosterone and estrogen receptor systems and stimulation of uterine growth and progesterone receptor synthesis. Mol. Cell. Endocrinol. 15:91-108, 1979. **PMID: [499651](#)**
27. Pavlik, E. J., Rutledge, S., Eckert, R., and Katzenellenbogen, B. S. Localization of estrogen receptors in uterine cells: An appraisal of translocation. Exper. Cell Res. 123:177-189, 1979. **PMID: [488181](#)**
28. Katzenellenbogen, B. S., Bhakoo, H. S., Ferguson, E. R., Lan, N. C., Tatee, T., Tsai, T. L., and Katzenellenbogen, J. A. Estrogen and antiestrogen action in reproductive tissues and tumors. Recent Prog. Horm. Res. 35:259-300, 1979. **PMID: [229525](#)**
29. Navickis, R. J., Dial, O. K., Katzenellenbogen, B. S., and Nalbandov, A. V. Effects of the gonadal hormones on calcium-binding proteins in the chick duodenum. Amer. J. Physiol. (Endo. Metab. and GI Physiol.) 237:E409-E417, 1979. **PMID: [227275](#)**
30. Hammond, B., Katzenellenbogen, B. S., Krauthammer, N., and McConnell, J. Estrogenic activity of the insecticide Chlordecone (Kepone) and interaction with uterine estrogen receptors. Proc. Natl. Acad. Sci. U.S. 76:6641-6645, 1979. **PMID: [93289](#)**
31. Tsai, R. L., Rutledge S., and Katzenellenbogen, B. S. Antiestrogen modulation of the growth and properties of ovarian dependent and ovarian-independent mammary tumors in rats. Cancer Res. 39:5043-5050, 1979. **PMID: [227594](#)**
32. Navickis, R. J., Katzenellenbogen, B. S., and Nalbandov, A. V. Effects of the sex steroid hormones and vitamin D₃ on calcium-binding protein in the chick shell gland. Biology of Reproduction 21:1153-1162, 1979. **PMID: [229921](#)**
33. Tatee, T., Carlson, K. E., Katzenellenbogen, J. A., Robertson, D. W., and Katzenellenbogen, B. S. Antiestrogens and antiestrogen metabolites: Preparation of tritium-labeled U-23469 and characterization and synthesis of a biologically-important metabolite. J. Med. Chem. 22:1509-1517, 1979. **PMID: [536996](#)**
34. Katzenellenbogen, B. S. Dynamics of steroid hormone receptor action. Ann. Review Physiol. 42:17-35, 1980. **PMID: [6996577](#)**
35. Katzenellenbogen, B. S., Lan, N. C., and Rutledge, S. K. Estrogen receptors of human endometrium: Characterization of nuclear and cytoplasmic forms and comparisons with rat uterine receptors. J. Steroid Biochem. 13:113-122, 1980. **PMID: [7382488](#)**
36. Rorke, E. A., and Katzenellenbogen, B. S. Comparative effects of estrogen and antiestrogens on enzyme activities in R3230AC rat mammary tumors and uteri of tumor-bearing animals. Cancer Res. 40:3158-3162, 1980. **PMID: [6253055](#)**
37. DeBoer, W., Notides, A. C., Katzenellenbogen, B. S., Hayes, J. R., and Katzenellenbogen, J. A. The capacity of the antiestrogen CI-628 to activate the estrogen receptor in vitro. Endocrinology 108:206-212, 1981. **PMID: [7007019](#)**

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38. Pavlik, E. J., and Katzenellenbogen, B. S. Stability of the uterine estrogen receptor when complexed with estrogens or antiestrogens. Mol. Pharmacol. 18:406-412, 1980. **PMID:** [7464805](#)
39. Hayes, J. R., Rorke, E. A., Robertson, D. W., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Biological potency and uterine estrogen receptor interactions of the metabolites of the antiestrogens CI628 and U23,469. Endocrinology 108:164-172, 1981. **PMID:** [7007017](#)
40. Kneifel, M. A., and Katzenellenbogen, B. S. Comparative effects of estrogen and antiestrogen on plasma renin substrate levels and hepatic estrogen receptors in the rat. Endocrinology 108:545-552, 1981. **PMID:** [7004858](#)
41. Katzenellenbogen, B. S., Pavlik, E. J., Robertson, D. W., and Katzenellenbogen, J. A. Interaction of a high affinity antiestrogen (α -[4-pyrrolidinoethoxy]phenyl-4-hydroxy- α' -nitrostilbene, CI628M) with uterine estrogen receptors. J. Biol. Chem. 256:2908-2915, 1981. **PMID:** [7204382](#)
42. Eckert, R. L., and Katzenellenbogen, B. S. Human endometrial cells in primary tissue culture. Modulation of the progesterone receptor level by natural and synthetic estrogens in vitro. J. Clin. Endocrinol. Metab. 52:699-708, 1981. **PMID:**[7204540](#)
43. Rorke, E. A., and Katzenellenbogen, B. S. Antitumor activities and estrogen receptor interactions of the metabolites of the antiestrogens C1628 and U23,469 in the dimethylbenz(a)anthracene-induced rat mammary tumor system. Cancer Research, 41:1257-1262, 1981. **PMID:**[6783294](#)
44. Robertson, D. W., Wei, L. L., Hayes, J. R., Carlson, K. E., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Tamoxifen aziridines: Effective inactivators of the estrogen receptor. Endocrinology 109:1298-1300, 1981. **PMID:** [7285873](#)
45. Katzenellenbogen, B. S., Rorke, E. A., and Eckert, R. L. Mechanisms of estrogen and antiestrogen action in mammary cancer. J. Steroid Biochem. 15:219-229, 1981. **PMID:** [7339248](#)
46. Eckert, R. L., and Katzenellenbogen, B. S. Effects of estrogens and antiestrogens on estrogen receptor dynamics and the induction of progesterone receptor in MCF-7 human breast cancer cells. Cancer Research 42:139-144, 1982. **PMID:** [7053842](#)
47. Robertson, D. W., Katzenellenbogen, J. A., Long, D. J., Rorke, E. A., and Katzenellenbogen, B. S. Tamoxifen antiestrogens. A comparison of the activity, pharmacokinetics and metabolic activation of the cis and trans isomers of tamoxifen. J. Steroid Biochem. 16:1-13, 1982. **PMID:** [7062732](#)
48. Robertson, D. W., Katzenellenbogen, J. A., Hayes, J. R., and Katzenellenbogen, B. S. Antiestrogen basicity-activity relationships: A comparison of the estrogen binding and antiuterotrophic potencies of several analogs of tamoxifen having altered basicity. J. Med. Chem. 25:167-171, 1982. **PMID:** [7057423](#)

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49. Pavlik, E. J., and Katzenellenbogen, B. S. The intranuclear distribution of rat uterine estrogen receptors determined after nuclease treatment, and chromatin fractionation. Mol. Cell. Endocrinol. 26:201-216, 1982. **PMID: [7084560](#)**
50. Eckert, R. L., and Katzenellenbogen, B. S. Physical properties of estrogen receptor complexes in MCF-7 human breast cancer cells: Differences with antiestrogen and estrogen. J. Biol. Chem. 257:8840-8846, 1982. **PMID: [7096337](#)**
51. Kneifel, M. A., Leytus, S. P., Fletcher, E., Weber, T., Mangel, W. F., and Katzenellenbogen, B. S. Uterine plasminogen activator activity: Modulation by steroid hormones. Endocrinology 111:493-499, 1982. **PMID: [7201382](#)**
52. Hersey, R. M., Weisz, J., and Katzenellenbogen, B.S. Estrogenic potency, receptor interactions and metabolism of catechol estrogens in the immature rat uterus in vitro. Endocrinology 111:896-903, 1982. **PMID: [6286287](#)**
53. Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Considerations in the design and evaluation of cytotoxic estrogens, Breast Cancer Research and Treatment 2:347-353, 1982. **DOI: [10.1007/bf01805876](#)**
54. Sudo, K., Monsma, F. J. Jr., and Katzenellenbogen, B. S. Antiestrogen-binding sites distinct from the estrogen receptor: Subcellular localization, ligand specificity, and distribution in tissues of the rat. Endocrinology 112:425-434, 1983. **PMID: [6848356](#)**
55. Peltz, S. W., Katzenellenbogen, B. S., Kneifel, M. A., and Mangel, W. F. Plasminogen activators in tissues of the immature and estrogen-stimulated rat uterus and in uterine luminal fluid: characterization and properties. Endocrinology 112:890-897, 1983. **PMID: [6681601](#)**
56. Katzenellenbogen, J. A., Carlson, K. E., Heiman, D. F., Robertson, D. W., Wei, L. L., and Katzenellenbogen, B. S. Efficient and highly selective covalent labeling of the estrogen receptor with [³H] tamoxifen aziridine. J. Biol. Chem. 258:3487-3495, 1983. **PMID: [6833211](#)**
57. Miller, M. A., and Katzenellenbogen, B. S. Characterization and quantitation of antiestrogen binding sites in estrogen receptor-positive and -negative human breast cancer cell lines. Cancer Research 43:3094-3101, 1983. **PMID: [6850618](#)**
58. Katzenellenbogen, B. S., Miller, M. A., Eckert, R. L., and Sudo, K. Antiestrogen pharmacology and mechanism of action. J. Steroid Biochem. 19:59-68, 1983. **PMID: [6887873](#)**
59. Eckert, R. L., and Katzenellenbogen, B. S. Modulation of progestin binding activity in cultured human breast carcinoma cells: The effect of serum type and concentration. J. Receptor Research 3:599-621, 1983. **PMID: [6672191](#)**
60. Miller, M. A., Greene, G. L., and Katzenellenbogen, B. S. Estrogen receptor transformation in MCF-7 breast cancer cells: Characterization by immunochemical and sedimentation analyses. Endocrinology 114:296-298, 1984. **PMID: [6690275](#)**

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Page 24 – Articles in Journals

61. Katzenellenbogen, B. S., Norman, M. J., Eckert, R. L., Peltz, S. W., and Mangel, S. F. Bioactivities, estrogen receptor interactions and plasminogen activator inducing activities of tamoxifen and hydroxytamoxifen isomers in MCF-7 human breast cancer cells. Cancer Research 44:112-119, 1984. **PMID: [6537799](#)**
- 61b. Katzenellenbogen JA, Katzenellenbogen BS. Affinity labeling of receptors for steroid and thyroid hormones. Vitam Horm. 1984;41:213-74. Review. **PMID: [6099632](#)**
62. Katzenellenbogen, B. S. Biology and receptor interactions of estriol and estriol derivatives *in vitro* and *in vivo*. J. Steroid Biochem. 20:1033-1037, 1984. **PMID: [6727348](#)**
63. Eckert, R. L., Mullick, A., Rorke, E. A., and Katzenellenbogen, B. S. Estrogen receptor synthesis and turnover in MCF-7 breast cancer cells measured by a density shift technique. Endocrinology 114:629-637, 1984. **PMID: [6690295](#)**
64. Monsma, F. J. Jr., Katzenellenbogen, B. S., Miller, M. A., Ziegler, Y. S. and Katzenellenbogen, J. A. Characterization of the estrogen receptor and its dynamics in MCF-7 human breast cancer cells using a covalently-attaching antiestrogen. Endocrinology 115:143-153, 1984. **PMID: [6734512](#)**
65. Reiner, G. C. A., Katzenellenbogen, B. S., Bindal, R. D., and Katzenellenbogen, J. A. Biological activity and receptor binding of a strongly interacting estrogen in human breast cancer cells. Cancer Research 44:2302-2308, 1984. **PMID: [6547074](#)**
66. Miller, M. A., Lippman, M. E., and Katzenellenbogen, B. S. Antiestrogen binding in antiestrogen growth resistant estrogen-responsive clonal variants of MCF-7 human breast cancer cells. Cancer Research 44:5038-5045, 1984. **PMID: [6488162](#)**
67. Rorke, E. A., Kendra, K. L., and Katzenellenbogen, B. S. Relationships among uterine growth, ornithine decarboxylase activity and polyamine levels: Studies with estradiol and antiestrogens. Mol. Cell. Endocrinology 38:31-38, 1984. **PMID: [6394408](#)**
68. Rorke, E. A., and Katzenellenbogen, B. S. Dissociated regulation of growth and ornithine decarboxylase activity by estrogen in the rat uterus. Biochem. Biophys. Res. Commun. 122:1186-1193, 1984. **PMID: [6433909](#)**
69. Katzenellenbogen, J. A., Carlson, K. E., and Katzenellenbogen, B. S. Facile geometric isomerization of phenolic non-steroidal estrogens and antiestrogens: Limitations to the interpretation of experiments characterizing the activity of individual isomers. J. Steroid Biochem. 22:589-596, 1985. **PMID: [4010284](#)**
70. Sheen, Y. Y., Simpson, D. M., and Katzenellenbogen, B. S. An evaluation of the role of antiestrogen binding sites in mediating the growth modulatory effects of antiestrogens: Studies using t-butylphenoxyethyl diethylamine, a compound lacking affinity for estrogen receptor. Endocrinology 117:561-564, 1985. **PMID: [4017947](#)**
71. Sheen, Y. Y., Ruh, T. S., and Katzenellenbogen, B. S. Antiestrogenic potency and binding characteristics of the triphenylethylene H1285 in MCF-7 human breast cancer cells. Cancer Res. 45:4192-4199, 1985. **PMID: [4040807](#)**

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 25 – Articles in Journals

72. Miller, M. A., Mullick, A., Greene, G. L., and Katzenellenbogen, B. S. Characterization of the subunit nature of nuclear estrogen receptors by chemical crosslinking and dense amino acid labeling. *Endocrinology* 117:515-522, 1985. **PMID:** [4017945](#)
73. Katzenellenbogen, B. S., Miller, M. A., Mullick, A., and Sheen, Y. Y. Antiestrogen action in breast cancer cells: Modulation of proliferation and protein synthesis, and interaction with estrogen receptors and additional antiestrogen binding sites. *Breast Cancer Res. Treatment* 5:231-243, 1985. **PMID:** [4027393](#)
74. Wei, L. L., Mangel, W. F., and Katzenellenbogen, B. S. Biological activities of tamoxifen aziridine, an antiestrogen-based affinity label for the estrogen receptor *in vivo* and *in vitro*. *J. Steroid Biochem.* 23: 875-881, 1985. **PMID:** [3937947](#)
75. Mullick, A., and Katzenellenbogen, B. S. Antiprogestin-receptor complexes: Differences in the interaction of the antiprogestin RU38,486 and the progestin R5020 with the progesterone receptor of human breast cancer cells. *Biochem. Biophys. Res. Commun.* 135:90-97, 1986. **PMID:** [3954780](#)
76. Reiner, G. C. A., and Katzenellenbogen, B. S. Characterization of estrogen and progesterone receptors and the dissociated regulation of growth and progesterone receptor stimulation by estrogen in MDA-MB-134 human breast cancer cells. *Cancer Research* 46:1124-1131, 1986. **PMID:** [3943090](#)
77. Wei, L. L., Katzenellenbogen, B. S., Robertson, D. W., Simpson, D. M., and Katzenellenbogen, J. A. Nitrosourea and nitrosocarbamate derivatives of the antiestrogen tamoxifen as potential estrogen receptor-mediated cytotoxic agents in human breast cancer cells. *Breast Cancer Res. Treatment* 7:77-90, 1986. **PMID:** [3719114](#)
78. Berthois, Y., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Phenol red in tissue culture media is a weak estrogen: implications concerning the study of estrogen-responsive cells in culture. *Proc. Natl. Acad. Sci. USA* 83:2496-2500, 1986. **PMID:** [3458212](#)
79. Mullick, A., and Katzenellenbogen, B. S. Progesterone receptor synthesis and degradation in MCF-7 human breast cancer cells as studied by dense amino acid incorporation: evidence for a non-hormone binding receptor precursor. *J. Biol. Chem.* 261:13236-13243, 1986. **PMID:** [3759961](#)
80. Katzenellenbogen, J. A., Scheeline, A., Mullick, A., and Katzenellenbogen, B. S. Appendix: Derivation and analysis of a lag-decay model for protein turnover involving a biosynthetic precursor. *J. Biol. Chem.* 261:13244-13246, 1986. **No PMID**
81. Salituro, F. G., Carlson, K. E., Elliston, J. F., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. [125I] Iododesethyl tamoxifen aziridine: Synthesis and covalent labeling of the estrogen receptor with an iodine-labeled affinity label. *Steroids* 48:287-313, 1986. **PMID:** [3445283](#)
82. Nardulli, A. M., and Katzenellenbogen, B. S. Dynamics of estrogen receptor turnover in uterine cells *in vitro* and in uteri *in vivo*. *Endocrinology* 119:2038-2046, 1986. **PMID:** [3533520](#)

83. Toney, T. W., and Katzenellenbogen, B. S. Antiestrogen action in the medial basal hypothalamus and pituitary of immature female rats: Insights concerning relationships among estrogen, dopamine and prolactin. *Endocrinology* 119:2661-2669, 1986. PMID: [3780547](#)
84. Toney, T. W., and Katzenellenbogen, B. S. An evaluation of the interactions of antiestrogens with pituitary and striatal dopamine receptors. *J. Receptor Research* 7:695-712, 1987. PMID: [2958626](#)
85. Sheen, Y. Y., and Katzenellenbogen, B. S. Antiestrogen stimulation of the production of a 37,000 molecular weight secreted protein and estrogen stimulation of the production of a 32,000 molecular weight secreted protein in MCF-7 human breast cancer cells. *Endocrinology* 120: 1140-1151, 1987. PMID: [3803313](#)
86. Katzenellenbogen, B. S., Elliston, J. F., Monsma, F. J., Jr., Springer, P. A., Ziegler, Y. S., and Greene, G. L. Structural analysis of covalently labeled estrogen receptors by limited proteolysis and mono-clonal antibody reactivity. *Biochemistry* 26:2364-2373, 1987. PMID: [3620450](#)
87. Zablocki, J. A., Katzenellenbogen, J. A., Carlson, K. E., Norman, M. J., and Katzenellenbogen, B. S. Estrogenic affinity labels: Synthesis, irreversible receptor binding, and bioactivity of aziridine-substituted hexestrol derivatives. *J. Med. Chem.* 30:829-837, 1987. PMID: [3033242](#)
88. Kendra, K. L., and Katzenellenbogen, B. S. An evaluation of the involvement of polyamines in modulating MCF-7 human breast cancer cell proliferation and progesterone receptor levels by estrogen and antiestrogen. *J. Steroid Biochem.* 28:120-126, 1987. PMID: [3114562](#)
89. Elliston, J. F., Zablocki, J. A., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Ketonestrol aziridine, an agonistic estrogen receptor affinity label: Study of its bioactivity and estrogen receptor covalent labeling. *Endocrinology* 121:667-676, 1987. PMID: [3595536](#)
90. Katzenellenbogen, B. S., Kendra, K. L., Norman, M. J., and Berthois, Y. Proliferation, hormonal responsiveness, and estrogen receptor content of MCF-7 human breast cancer cells grown in the short-term and long-term absence of estrogens. *Cancer Research* 47:4355-4360, 1987. PMID: [3607768](#)
91. Mangel, W. F., Toledo, D. L., Nardulli, A. M., Reiner, G. C. A., Norman, M. J., and Katzenellenbogen, B. S. Plasminogen activators in human breast cancer cell lines: Hormonal regulation and properties. *J. Steroid Biochem.* 30:79-88, 1988. PMID: [3386280](#)
92. Nardulli, A. M., Greene, G. L., O'Malley, B. W., and Katzenellenbogen, B. S. Regulation of progesterone receptor messenger ribonucleic acid and protein levels in MCF-7 cells by estradiol: Analysis of estrogen's effect on progesterone receptor synthesis and degradation. *Endocrinology* 122: 935-944, 1988. PMID: [3342760](#)
93. Read, L. D., Snider, C. E., Miller, J. S., Greene, G. L., and Katzenellenbogen, B. S. Ligand-modulated regulation of progesterone receptor messenger ribonucleic acid and protein in human breast cancer cell lines. *Mol. Endocrinol.* 2:263-271, 1988. PMID: [3398853](#)

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 27 – Articles in Journals

94. Nardulli, A. M., and Katzenellenbogen, B. S. Progesterone receptor regulation in T47D human breast cancer cells: Analysis by density labeling of progesterone receptor synthesis and degradation and their modulation by progestin. *Endocrinology* 122:1532-1540, 1988. **PMID: [3345726](#)**
95. Elliston, J. F., and Katzenellenbogen, B. S. Comparative analysis of estrogen receptors covalently labeled with an estrogen and an antiestrogen in several estrogen target cells as studied by limited proteolysis. *J. Steroid Biochem.* 29:559-569, 1988. **PMID: [3290576](#)**
96. Bindal, R.D., Carlson, K.E., Katzenellenbogen, B.S., and Katzenellenbogen, J.A. Lipophilic impurities, not phenolsulfonph-thalein, account for the estrogenic activity in commercial preparations of phenol red. *J. Steroid Biochem.* 31:287-293, 1988. **PMID: [3419159](#)**
97. Weaver, C. A., Springer, P. A., and Katzenellenbogen, B. S. Regulation of pS2 gene expression by affinity labeling and reversibly binding estrogens and antiestrogens: Comparison of effects on the native gene and on pS2-chloramphenicol acetyltransferase fusion genes transfected into MCF-7 human breast cancer cells. *Mol. Endocrinol.* 2:936-945, 1988. **PMID: [2460749](#)**
98. Read, L. D., Greene, G. L., and Katzenellenbogen, B. S. Regulation of estrogen receptor messenger ribonucleic acid and protein levels in human breast cancer cell lines by sex steroid hormones, their antagonists, and growth factors. *Mol. Endocrinol.* 3: 295-304, 1989. **PMID: [2785242](#)**
99. Clarke, R., Br nner, N., Katzenellenbogen, B. S., Thompson, E. W., Norman, M. J., Koppi, C., Soonmyoung, P., Lippman, M. E. and Dickson, R. B. Progression of human breast cancer cells from hormone-dependent to hormone-independent growth both *in vitro* and *in vivo*. *Proc. Natl. Acad. Sci. USA* 86:3649-3653, 1989. **PMID: [27256742](#)**
100. Harlow, K. W., Smith, D. N., Katzenellenbogen, J. A., Greene, G. L. and Katzenellenbogen, B. S. Identification of cysteine-530 as the covalent attachment site of an affinity labeling estrogen (ketononestrol aziridine) and antiestrogen (tamoxifen aziridine) in the human estrogen receptor. *J. Biol. Chem.* 264:17476-17485, 1989. **PMID: [2793867](#)**
- 100b. Katzenellenbogen BS, Nardulli AM, Read LD. Estrogen regulation of proliferation and hormonal modulation of estrogen and progesterone receptor biosynthesis and degradation in target cells. *Prog Clin Biol Res.* 322:201-11, 1990. Review. No abstract available. **PMID: [2406733](#)**
101. Katzenellenbogen, B. S. and Norman, M. J. Multihormonal regulation of the progesterone receptor in MCF-7 human breast cancer cells: Interrelationships among insulin/IGF-I, serum and estrogen. *Endocrinology* 126:891-898, 1990. **PMID: [2404751](#)**
102. Read, L. D., Keith, D., Jr., Slamon, D. J. and Katzenellenbogen, B. S. Hormonal modulation of HER-2/*neu* protooncogene messenger ribonucleic acid and p185 protein expression in human breast cancer cell lines. *Cancer Research* 50:3947-3951, 1990. **PMID: [1972345](#)**
103. Wrenn, C. K. and Katzenellenbogen, B. S. Cross-linking of estrogen receptor to chromatin in intact MCF-7 human breast cancer cells. *Mol. Endocrinol.* 4:1647-1654, 1990. **PMID: [2280770](#)**

104. Pinney, K. G., Carlson, K. E., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Efficient and selective photoaffinity labeling of the estrogen receptor using two nonsteroidal ligands that embody aryl azide or tetrafluoroaryl azide photoreactive functions. *Biochemistry* 30:2421-2431, 1991. **PMID: [2001370](#)**
105. Aronica, S. M. and Katzenellenbogen, B. S. Progesterone receptor regulation in uterine cells: Stimulation by estrogen, cyclic adenosine 3',5'-monophosphate and insulin-like growth factor I and suppression by antiestrogens and protein kinase inhibitors. *Endocrinology* 128:2045-2052, 1991. **PMID: [1706263](#)**
106. Reese, J. C. and Katzenellenbogen, B. S. Mutagenesis of cysteines in the hormone binding domain of the human estrogen receptor: Alterations in binding and transcriptional activation by covalently and reversibly attaching ligands. *J. Biol. Chem.* 266:10880-10887, 1991. **PMID: [2040605](#)**
107. Cho, H., NG, P. A. and Katzenellenbogen, B. S. Differential regulation of gene expression by estrogen in estrogen growth-independent and -dependent MCF-7 human breast cancer cell sublines. *Mol. Endocrinol.* 5:1323-1330, 1991. **PMID: [1722871](#)**
108. Katzenellenbogen, B. S. Antiestrogen resistance: Mechanisms by which breast cancer cells undermine the effectiveness of endocrine therapy. *J. Natl. Cancer Inst.* 83:1434-1435, 1991. **PMID: [1920488](#)**
109. Reese, J. R. and Katzenellenbogen, B. S. Differential DNA-binding abilities of estrogen receptor occupied with two classes of antiestrogens: Studies using human estrogen receptor overexpressed in mammalian cells. *Nucleic Acids Res.* 19:6595-6602, 1991. **PMID: [1754396](#) PMCID: [PMC329226](#)**
110. Pakdel, F. and Katzenellenbogen, B. S. Human estrogen receptor mutants with altered estrogen and antiestrogen ligand discrimination. *J. Biol. Chem.* 267:3429-3437, 1992. **PMID: [1737796](#)**
111. Reese, J. C. and Katzenellenbogen, B. S. Characterization of a temperature-sensitive mutation in the hormone binding domain of the human estrogen receptor: Studies in cell extracts and intact cells and their implications for hormone-dependent transcriptional activation. *J. Biol. Chem.* 267:9868-9873, 1992. **PMID: [1577818](#)**
112. Wooge, C. H., Nilsson, G. M. Heierson, A., McDonnell, D. P. and Katzenellenbogen, B. S. Structural requirements for high affinity ligand binding by estrogen receptors: A comparative analysis of truncated and full length estrogen receptors expressed in bacteria, yeast and mammalian cells. *Mol. Endocrinol.* 6:861-869, 1992. **PMID: [1495491](#)**
113. Reese, J. C. and Katzenellenbogen, B. S. Examination of the DNA binding abilities of estrogen receptor in whole cells: Implications for hormone-independent transactivation and the action of the pure antiestrogen ICI164,384. *Mol. Cell. Biol.* 12:4531-4538, 1992. **PMID: [1406642](#) PMCID: [PMC360379](#)**
114. Reese, J. C., Wooge, C. H. and Katzenellenbogen, B. S. Identification of two cysteines closely positioned in the ligand binding pocket of the human estrogen receptor: Roles in

- ligand binding and transcriptional activation. *Mol. Endocrinol.* 6:2160-2166, 1992. PMID: [1491695](#)
115. Cho, H. and Katzenellenbogen, B. S. Synergistic activation of estrogen receptor-mediated transcription by estradiol and protein kinase activators. *Mol. Endocrinol.* 7: 441-452, 1993. PMID: [7683375](#)
116. Aronica, S. M. and Katzenellenbogen, B. S. Stimulation of estrogen receptor-mediated transcription and alteration in the phosphorylation state of the rat uterine estrogen receptor by estrogen, cyclic AMP and IGF-I. *Mol. Endocrinol.* 7: 743-752, 1993. PMID: [7689695](#)
117. Kraus, W. L. and Katzenellenbogen, B. S. Regulation of progesterone receptor gene expression and growth in the rat uterus: Modulation of estrogen actions by progesterone and sex steroid hormone antagonists. *Endocrinology* 132: 2371-2379, 1993. PMID: [8504742](#)
118. Ince, B. A., Zhuang, Y., Wrenn, C. K., Shapiro, D. J., and Katzenellenbogen, B. S. Powerful dominant negative mutants of the human estrogen receptor. *J. Biol. Chem.* 268:14026-14032, 1993. PMID: [8314770](#)
119. Pakdel, F., Reese, J.C., and Katzenellenbogen, B. S. Identification of charged residues in an N-terminal portion of the hormone binding domain of the human estrogen receptor important in transcriptional activity of the receptor. *Mol. Endocrinol.* 7:1408-1417, 1993. PMID: [8114756](#)
120. Wrenn, C. K. and Katzenellenbogen, B. S. Structure-function analysis of the hormone binding domain of the human estrogen receptor by region-specific mutagenesis and phenotypic screening in yeast. *J. Biol. Chem.* 268:24089-24098, 1993. PMID: [8226955](#)
121. Katzenellenbogen, B. S., Fang, H., Ince, B. A., Pakdel, F., Reese, J. C., Wooge, C. H. and Wrenn, C. K. Estrogen receptors: Ligand discrimination and antiestrogen action. *Breast Cancer Res. Treat.* 27:17-26, 1993. PMID: [8260727](#)
122. Kraus, W. L., Montano, M. M., and Katzenellenbogen, B. S. Cloning of the rat progesterone receptor gene 5' region and identification of two functionally distinct promoters. *Mol. Endocrinol.* 7:1603-1616, 1993. PMID: [8145766](#)
123. Pakdel, F., Le Goff, P., and Katzenellenbogen, B. S. An assessment of the role of domain F and PEST sequences in estrogen receptor half-life and bioactivity. *J. Steroid Biochem. Molec. Biol.* 46:663-672, 1993. PMID: [8274400](#)
124. Katzenellenbogen, B. S., Bhardwaj, B., Fang, H., Ince, B. A., Pakdel, F., Reese, J. C., Schodin, D. J., and Wrenn, C. K. Hormone binding and transcription activation by estrogen receptors: Analyses using mammalian and yeast systems. *J. Steroid Biochem. Molec. Biol.* 47:39-48, 1993. PMID: [8274440](#)
125. Cho, H., Aronica, S. M., and Katzenellenbogen, B. S. Regulation of progesterone receptor gene expression in MCF-7 breast cancer cells: a comparison of the effects of cyclic AMP, estradiol, IGF-1 and serum factors. *Endocrinology* 134:658-664, 1994. PMID: [7507831](#)

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 30 – Articles in Journals

126. Le Goff, P., Montano, M. M., Schodin, D. J., and Katzenellenbogen, B. S. Phosphorylation of the human estrogen receptor: identification of hormone-regulated sites and examination of their influence on transcriptional activity. J. Biol. Chem. 269:4458-4466, 1994. **PMID: [8308015](#)**
127. Fujimoto, N., and Katzenellenbogen, B. S. Alteration in the agonist/antagonist balance of antiestrogens by activation of protein kinase A signaling pathways in breast cancer cells: antiestrogen-selectivity and promoter-dependence. Mol. Endocrinol. 8:296-304, 1994. **PMID: [7517003](#)**
128. Bergmann, K. E., Wooge, C. H., Carlson, K. E., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Bivalent ligands as probes of estrogen receptor action. J. Steroid Biochem. Molec. Biol. 49:139-152, 1994. **PMID: [8031710](#)**
129. Kraus WL, Montano MM, Katzenellenbogen BS. Identification of multiple, widely spaced estrogen-responsive regions in the rat progesterone receptor gene. Mol Endocrinol. Aug;8(8):952-69, 1994. **PMID: [7997237](#)**
130. Aronica, SM, Kraus, WL, and Katzenellenbogen, BS. Estrogen action via the cAMP signaling pathway: Stimulation of adenylate cyclase and cAMP-regulated gene transcription. Proc. Natl. Acad. Sci. USA 91:8517-8521, 1994. **PMID: [8078914](#) PMCID: [PMC44637](#)**
131. Ince B. A., Montano, M. M., and Katzenellenbogen, B. S. Activation of transcriptionally inactive human estrogen receptors by cAMP and ligands including antiestrogens. Mol. Endocrinol. 8:1397-1406, 1994. **PMID: [7531820](#)**
132. Herman, M. E. and Katzenellenbogen, B. S. Alterations in transforming growth factor alpha and beta production and cell responsiveness during the progression of MCF-7 human breast cancer cells to estrogen-autonomous growth. Cancer Research 54:5867-5874, 1994. **PMID: [7954416](#)**
133. Zhuang, Y., Katzenellenbogen, B. S., and Shapiro, D. J. Estrogen receptor mutants which do not bind 17 β -estradiol dimerize and bind to the estrogen response element *in vivo*. Mol. Endocrinol., 9:457-466, 1995. **PMID: [7659089](#)**
134. Kraus, W. L., Weis, K. E., and Katzenellenbogen, B. S. Inhibitory cross-talk between steroid hormone receptors: Differential targeting of estrogen receptor in the repression of its transcriptional activity by agonist- and antagonist-occupied progestin receptors. Mol. Cell. Biol., 15:1847-1857, 1995. **PMID: [7891678](#) PMCID: [PMC230410](#)**
135. Nicholson, R. I., Gee, J. M. W., Francis, A. B., Manning, D. L., Wakeling, A. E., and Katzenellenbogen, B. S. Observations arising from the use of pure antiestrogens on oestrogen-responsive (MCF-7) and oestrogen growth-independent (K3) human breast cancer cells. Endocrine Related Cancer 2:115-121, 1995. **PMID: [N/A](#)**
136. Katzenellenbogen, B. S., Montano, M., Le Goff, P., Schodin, D. J., Kraus, W. L., and Bhardwaj, B., and Fujimoto, N. Antiestrogens: Mechanisms and actions in target cells. J. Steroid Biochem. Molec. Biol. 53:387-393, 1995. **PMID: [7626486](#)**

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 31 – Articles in Journals

137. Nicholson, R. I., Gee, J. M. W., Manning, D. L., Wakeling, A. E., Montano, M. M., and Katzenellenbogen, B. S. Responses to pure antioestrogens (ICI 164384, ICI 182780) in oestrogen sensitive and resistant experimental and clinical breast cancer. Annals N. Y. Acad. Sci. **761**:148-163, 1995. **PMID: [7625718](#)**
138. Montano, M. M., Müller, V., Trobaugh, A., and Katzenellenbogen, B. S. The carboxy-terminal F domain of the human estrogen receptor: Role in the transcriptional activity of the receptor and the effectiveness of antiestrogens as estrogen antagonists. Mol. Endocrinol., **9**:814-825, 1995. **PMID: [7476965](#)**
139. Ince, B. A., Schodin, D. J., Shapiro, D. J., and Katzenellenbogen, B. S. Repression of endogenous estrogen receptor activity in MCF-7 human breast cancer cells by dominant negative estrogen receptors. Endocrinology, **136**: 3194-3199, 1995. **PMID: [7628351](#)**
140. Kraus, W. L., McInerney, E. M., and Katzenellenbogen, B. S. Ligand-dependent, transcriptionally productive association of the amino- and carboxyl- terminal regions of a steroid hormone nuclear receptor. Proc. Natl. Acad. Sci. USA **92**:12314-12318, 1995. **PMID: [8618892](#) PMCID: [PMC40347](#)**
141. Schodin, D. J., Zhuang, Y., Shapiro, D. J., and Katzenellenbogen, B. S. Analysis of mechanisms that determine dominant negative estrogen receptor effectiveness. J. Biol. Chem. **270**:31163-31171, 1995. **PMID: [8537380](#)**
142. Katzenellenbogen, B. S. Estrogen receptors: Bioactivities and interactions with cell signaling pathways. Biol. Reprod. **54**:287-293, 1996. **PMID: [8788178](#)**
143. Katzenellenbogen, B. S. The receptor mechanism and actions of estrogen in target cells. Int. J. Calcified Tissue and Bone Metab. **4**:60-65, 1995. **PMID: N/A**
144. Katzenellenbogen, J. A., O'Malley, B. W., and Katzenellenbogen, B. S. Tripartite steroid hormone receptor pharmacology: Interaction with multiple effector sites as a basis for the cell- and promoter-specific action of these hormones. Mol. Endocrinol. **10**:119-131, 1996. **PMID: [8825552](#)**
145. Montano, M. M., Ekena, K. E., Krueger, K. D., Keller, A. L., and Katzenellenbogen, B. S. Human estrogen receptor ligand activity inversion mutants: Receptors that interpret antiestrogens as estrogens and estrogens as antiestrogens and discriminate among different antiestrogens. Mol. Endocrinol. **10**:230-242, 1996. **PMID: [8833652](#)**
146. Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Nuclear hormone receptors: Ligand-activated regulators of transcription and diverse cell responses. Chem. and Biol. **3**:529-536, 1996. **PMID: [8807884](#)**
147. Ekena, K. E., Weis, K. E., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Identification of amino acids in the hormone binding domain of the human estrogen receptor important in estrogen binding. J. Biol. Chem. **271**: 20053-20059, 1996. **PMID: [8702724](#)**
148. McInerney, E. M., Tsai, M. J., O'Malley, B. W., and Katzenellenbogen, B. S. Analysis of estrogen receptor transcriptional enhancement by a nuclear hormone receptor coactivator. Proc. Natl. Acad. Sci. USA **93**:10069-10073, 1996. **PMID: [8816752](#) PMCID: [PMC38337](#)**

149. McInerney, E. M., and Katzenellenbogen, B. S. Different regions in activation function-1 of the human estrogen receptor required for antiestrogen-dependent and estradiol-dependent transcription activation. *J. Biol. Chem.* 271:24172-24178, 1996. **PMID:** [8798658](#)
150. Herman, M. E. and Katzenellenbogen, B. S. Response-specific antiestrogen resistance in a newly characterized MCF-7 human breast cancer cell line resulting from long-term exposure to trans-hydroxytamoxifen. *J. Steroid Biochem. Molec. Biol.* 59:121-134, 1996. **PMID:** [9010327](#)
151. Weis, K. E., Ekena, K., Thomas, J. A., Lazennec, G. and Katzenellenbogen, B. S. Constitutively active human estrogen receptors containing amino acid substitutions for tyrosine 537 in the receptor protein. *Mol. Endocrinol.* 10:1388-1398, 1996. **PMID:** [8923465](#)
152. McInerney, E. M., Ince, B. A., Shapiro, D. J. and Katzenellenbogen, B. S. A transcriptionally active estrogen receptor mutant is a novel type of dominant negative inhibitor of estrogen action. *Mol. Endocrinol.* 10:1519-1526, 1996. **PMID:** [8961262](#)
153. Ekena, K., Weis, K. E., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Different residues of the human estrogen receptor are involved in the recognition of structurally diverse estrogens and antiestrogens. *J. Biol. Chem.* 272:5069-5075, 1997. **PMID:** [9030571](#)
154. Katzenellenbogen B. S., and Korach, K. S. Editorial: A new actor in the estrogen receptor drama—enter ER α . *Endocrinology*, 138:861-862, 1997. **PMID:** [9048583](#)
155. Montano, M. M., Kraus, W. L., and Katzenellenbogen, B. S. Identification of a novel transferable cis element in the promoter of an estrogen responsive gene that modulates sensitivity to hormone and antihormone. *Mol. Endocrinol.* 11:330-341, 1997. **PMID:** [9058379](#)
156. Montano, M. M. and Katzenellenbogen, B. S. The quinone reductase gene: A unique estrogen receptor-regulated gene that is activated by antiestrogens. *Proc. Natl. Acad. Sci. USA* 94:2581-2586, 1997. **PMID:** [9122238](#) **PMCID:** [PMC20131](#)
157. Katzenellenbogen, B. S., Montano, M. M., Ekena, K., Herman, M. E., and McInerney, E. M. Antiestrogens: Mechanisms of action and resistance in breast cancer. *Breast Cancer Res. Treatment* 44:23-38, 1997. **PMID:** [9164675](#)
158. Aliau, S., El Garrouj, D., Yasri, A., Katzenellenbogen, B. S. and Borgna, J.-L. 17 α -(haloacetamidoalkyl) estradiols alkylate the human estrogen receptor at cysteine residues 417 and 530. *Biochemistry* 36:5861-5867, 1997. **PMID:** [9153427](#)
159. Lazennec, G., Ediger, T. R., Petz, L. N., Nardulli, A. M., and Katzenellenbogen, B. S. Mechanistic aspects of estrogen receptor activation probed with constitutively active estrogen receptors: correlations with DNA and coregulator interactions and receptor conformational changes. *Mol. Endocrinol.* 11:1375-1386, 1997. **PMID:** [9259327](#)
160. Carlson, K. E., Choi, I., Gee, A., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Altered ligand binding properties and enhanced stability of a constitutively active estrogen

- receptor: evidence that an open-pocket conformation is required for ligand interaction. *Biochemistry* 36:14897-14905, 1997. PMID: [9398213](#)
161. Kraus, W. L., Weis, K. E., and Katzenellenbogen, B. S. Determinants for the repression of estrogen receptor transcriptional activity by ligand-occupied progestin receptors. *J. Steroid Biochem. Molec. Biol.* 63:175-188, 1997. PMID: [9459183](#)
 162. Ekena, K., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Determinants of ligand specificity of estrogen receptor- α : estrogen versus androgen discrimination. *J. Biol. Chem.* 273:693-699, 1998. PMID: [9422719](#)
 163. Clemens, J. W., Robker, R. L., Kraus, W. L., Katzenellenbogen, B. S., and Richards, J. S. Hormone induction of progesterone receptor (PR) mRNA and activation of PR promoter regions in ovarian granulosa cells: Evidence for a role of cAMP but not estradiol. *Mol. Endocrinol.* 12:1201-1214, 1998. PMID: [9717846](#)
 164. Montano, M. M., Jaiswal, A. K., and Katzenellenbogen, B. S. Transcriptional regulation of the human quinone reductase gene by antiestrogen-liganded estrogen receptor- α and estrogen receptor- β . *J. Biol. Chem.* 273:25443-25449, 1998. PMID: [9738013](#)
 165. Webb, P., Nguyen, P., Shinsako, J., Anderson, C., Feng, W., Nguyen, M.P., Chen, D., Huang, S-M., Subramanian, S., M., McInerney, E. M., Katzenellenbogen, B. S., Stallcup, M. R., and Kushner, P. J. Estrogen receptor activation function 1 works by binding p160 coactivator protein. *Mol. Endocrinol.* 12:1605-1618, 1998. PMID: [9773983](#)
 166. McInerney, E. M., Weis, K. E., Sun, J., Mosselman, S., and Katzenellenbogen, B. S. Transcription activation by the human estrogen receptor subtype α (ER α) studied with ER α and ER α receptor chimeras. *Endocrinology* 139:4513-4522, 1998. PMID: [9794460](#)
 167. Sun, J., Meyers, M. J., Fink, B. E., Rajendran, R., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Novel ligands that function as selective estrogens or antiestrogens for estrogen receptor- α or estrogen receptor- β . *Endocrinology*, 140:800-804, 1999. PMID: [9927308](#)
 168. Montano, M. M., Ekena, K., Delage-Mourroux, R., Chang, W., Martini, P., and Katzenellenbogen, B. S. An estrogen receptor-selective coregulator that potentiates the effectiveness of antiestrogens and represses the activity of estrogens. *Proc. Natl. Acad. Sci. USA*, 96:6947-6952, 1999. PMID: [10359819](#) PMCID: [PMC22022](#)
 169. Lazennec, G. and Katzenellenbogen, B. S. Expression of human estrogen receptor using an efficient adenoviral gene delivery system is able to restore hormone-dependent features to estrogen receptor-negative breast carcinoma cells. *Mol. Cell. Endocrinol.*, 149:93-105, 1999. PMID: [10375022](#)
 170. Lazennec, G., Alcorn, J. L., and Katzenellenbogen, B. S. Adenovirus-mediated delivery of a dominant negative estrogen receptor gene abrogates estrogen-stimulated gene expression and breast cancer cell proliferation. *Mol. Endocrinol.*, 13:969-980, 1999. PMID: [10379895](#)

171. Ediger, T. R., Kraus, W. L., Weinman, E. J., and Katzenellenbogen, B. S. Estrogen receptor regulation of the Na⁺/H⁺ exchanger regulatory factor (NHE-RF). *Endocrinology*, 140:2976-2982, 1999. **PMID:** [10385389](#)
172. Meyers, M. J., Sun, J., Carlson, K. E., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Estrogen receptor subtype selective ligands: asymmetric synthesis and biological evaluation of cis and trans 5,11-dialkyl-5,6,11,12-tetrahydrochrysenes. *J. Med. Chem.*, 42:2456-2468, 1999. **PMID:** [10395487](#)
173. Chusacultachai, S., Glenn, K. A., Rodriguez, A. O., Gardner, J. F., Katzenellenbogen, B. S., and Shapiro, D. J. Analysis of estrogen response element binding by genetically selected steroid receptor DNA binding domain mutants exhibiting altered specificity and enhanced affinity. *J. Biol. Chem.*, 274:23591-23598, 1999. **PMID:** [10438541](#)
174. Webb, P., Nguyen, P., Valentine, C., Lopez, G. N., Kwok, G. R., McInerney, E., Katzenellenbogen, B. S., Enmark, E., Gustafsson, J-A., Nilsson, S., and Kushner, P. J. The estrogen receptor enhances AP-1 activity by two distinct mechanisms with different requirements for receptor transactivation functions. *Mol. Endocrinol.*, 13:1672-1685, 1999. **PMID:** [10517669](#)
175. Gee, A. C., Carlson, K. E., Martini, P. G., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Coactivator peptides have a differential stabilizing effect on the binding of agonists and antagonists with the estrogen receptor. *Mol. Endocrinol.*, 13:1912-1923, 1999. **PMID:** [10551784](#)
176. Schlegel, A., Wang, C., Katzenellenbogen, B. S., Pestell, R. G. and Lisanti, M. P. Caveolin-1 potentiates estrogen receptor α (ER α) signaling. Caveolin-1 drives ligand-independent nuclear translocation and activation of ER α . *J. Biol. Chem.*, 274:33551-33556, 1999. **PMID:** [10559241](#)
177. Katzenellenbogen, B. S. Mechanisms of action and cross-talk between estrogen receptor and progesterone receptor pathways, *J. Soc. Gynecol. Investig.*, 7:S33-37, 2000. **PMID:** [10732327](#)
178. Stoica, A., Katzenellenbogen, B. S., and Martin, M. B. Activation of estrogen receptor- α by the heavy metal cadmium. *Mol. Endocrinol.*, 14:545-553, 2000. **PMID:** [10770491](#)
179. deHaan, G., Chusacultachai, S., Mao, C., Katzenellenbogen, B. S., and Shapiro, D. J. Estrogen receptor-KRAB chimeras are potent ligand-dependent repressors of estrogen regulated gene expression. *J. Biol. Chem.*, 275:13493-13501, 2000. **PMID:** [10788463](#)
180. Stauffer, S. R., Sun, J., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Acyclic amides as estrogen receptor ligands. *Bioorg. Med. Chem.*, 8:1293-1316, 2000. **PMID:** [10896109](#)
181. Martini, P. G. V., Delage-Mourroux, R., Kraichely, D. M., and Katzenellenbogen, B. S. Prothymosin α selectively enhances estrogen receptor transcriptional activity by interacting with a repressor of estrogen receptor activity (REA). *Mol. Cell. Biol.*, 20:6224-6232, 2000. **PMID:** [10938099](#) **PMCID:** [PMC86097](#)
182. Delage-Mourroux, R., Martini, P. G. V., Choi, I., Kraichely, D. M., Hoeksema, J., and Katzenellenbogen, B. S. Analysis of estrogen receptor interaction with a repressor of estrogen

- receptor activity (REA) and the regulation of estrogen receptor transcriptional activity by REA. *J. Biol. Chem.*, 46:35848-35856, 2000. **PMID:** [10960470](#)
183. Kraichely, D. M., Sun, J., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Conformational changes and coactivator recruitment by novel ligands for estrogen receptor alpha and estrogen receptor beta: Correlations with biological character and distinct differences among SRC coactivator family members. *Endocrinology*, 141:3534-3545, 2000. **PMID:** [11014206](#)
184. Choi, I., Gudas, L. J., Katzenellenbogen, B. S. Regulation of keratin 19 gene expression by estrogen in human breast cancer cells and identification of the estrogen responsive gene region. *Mol. Cell. Endocrinol.*, 164:225-237, 2000. **PMID:** [11026574](#)
185. Katzenellenbogen, B. S., Montano, M. M., Ediger, T. R., Sun, J., Ekena, K., Lazennec, G., Martini, P., McInerney, E. M., Delage-Mourroux, R., Weis, K. and Katzenellenbogen, J. A. Estrogen receptors: selective ligands, partners, and distinctive pharmacology. *Recent Progress in Hormone Research*, 55:163-195, 2000. **PMID:** [11036937](#)
186. Ju, Y. H., Carlson, K. E., Sun, J., Katzenellenbogen, B. S., Katzenellenbogen, J. A. and Helferich, W. G. Estrogenic effects of extracts from cabbage, fermented cabbage, and acidified brussel sprouts on growth and gene expression of estrogen-dependent (MCF-7) and -independent (MDA 231) human breast cancer cells. *J. Agric. Food Chem.*, 4628-4634, 2000. **PMID:** [11052710](#)
187. Martin, M. B., Franke, T. F., Stoica, G. E., Chambon, P., Katzenellenbogen, B. S., Stoica, B. A., McLemore, M. S., Olivo, S. E., and Stoica, A. A role for AKT in mediating the estrogenic functions of epidermal growth factor and insulin-like growth factor I. *Endocrinology*, 141:4503-4511, 2000. **PMID:** [11108261](#)
188. Stauffer, S. R., Coletta, C. J., Sun, J., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Pyrazole ligands: Structure-affinity/activity relationships of estrogen receptor- α selective agonists. *J. Med. Chem.*, 43:4934-4947, 2000. **PMID:** [1150164](#)
189. Katzenellenbogen, B. S., Choi, I., Delage-Mourroux, R., Ediger, T. R., Martini, P. G. V., Montano, M., Sun, J., Weis, K., and Katzenellenbogen, J. A., Nobel Symposium on Estrogens. Molecular mechanisms of estrogen action: selective ligands and receptor pharmacology, *J. Steroid Biochem. Molec. Biol.*, 74:279-285, 2000. **PMID:** [11162936](#)
190. Stauffer, S. R., Huang, Y. R., Aron, Z. D., Coletta, C. J., Sun, J., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Triarylpyrazoles with basic side chains: Development of pyrazole-based estrogen receptor antagonists. *Biorg. Med. Chem.*, 9:151-161, 2001. **PMID:** [11197335](#)
191. Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Estrogen receptor alpha and estrogen receptor beta: Regulation by selective estrogen receptor modulators and importance in breast cancer. *Breast Cancer Res.*, 2:335-344, 2000. **PMID:** [11250726](#) **PMCID:** [PMC138655](#)
192. Kousteni, S., Bellido, T., Plotkin, L. I., O'Brien, C. A., Bodenner, D. L., Han, L., Han, K., DiGregorio, G. B., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Roberson, P. K., Weinstein, R. S., Jilka, R. L., and Manolagas, S. C. Non-genotropic, sex non-specific

- signaling through the estrogen or androgen receptors: Dissociation from transcriptional activity. *Cell*, 104:719-730, 2001. **PMID:** [11257226](#)
193. Wissink, S., van Der Burg, B., Katzenellenbogen, B. S. and van Der Saag, P. T. Synergistic activation of the serotonin-1a receptor by nuclear factor- kappa b and estrogen. *Mol. Endocrinol.*, 15:543-552, 2001. **PMID:** [11266506](#)
194. Wang, C., Fu, M., Angeletti, R. H., Siconolfi-Baez, L., Reutens, A. T., Albanese, C., Lisanti, M., Katzenellenbogen, B. S., Kato, S., Hopp, T., Fuqua, S. A. W., Kushner, P. J. and Pestell, R. G. Direct acetylation of the estrogen receptor α hinge region by p300 regulates transactivation and hormone sensitivity. *J. Biol. Chem.*, 276:18375-18383, 2001. **PMID:** [11279135](#)
195. Tedesco, R., Thomas, J. A., Katzenellenbogen, B. S., Katzenellenbogen, J. A. The estrogen receptor: A structure-based approach to the design of unique specificity hormone-receptor combinations. *Chem. Biol.*, 8:277-287, 2001. **PMID:** [11306352](#)
196. Lazennec, G., Thomas, J., and Katzenellenbogen, B. S. Involvement of cyclic AMP response element binding protein (CREB) and estrogen receptor phosphorylation in the synergistic activation of the estrogen receptor by estradiol and protein kinase activators. *J. Steroid Biochem. Molec. Biol.*, 77:193-203, 2001. **PMID:** [11457657](#)
197. Martini, P. G. V. and Katzenellenbogen, B. S. Regulation of prothymosin alpha gene expression by estrogen in estrogen receptor-containing breast cancer cells via upstream half-palindromic estrogen response element motifs. *Endocrinology*, 142:3493-3501, 2001. **PMID:** [11459795](#)
198. Choi, I., Ko, C., Park-Sarge, O.-K., Nie, R., Hess, R., Graves, C., and Katzenellenbogen, B. S. Human estrogen receptor beta-specific monoclonal antibodies: Characterization and use in studies of estrogen receptor beta protein expression in reproductive tissues. *Mol. Cell. Endocrinol.*, 181:139-150, 2001. **PMID:** [11476948](#)
199. Prins, G. S., Birch, L., Couse, J. F., Choi, I., Katzenellenbogen, B. S., and Korach, K. S. Estrogen imprinting of the developing prostate gland is mediated through stromal estrogen receptor α (ER α): Studies with α ERKO and β ERKO mice. *Cancer Res.*, 61:6089-6097, 2001. **PMID:** [11507058](#)
200. Mortensen D.S., Rodriguez A.L., Sun J., Katzenellenbogen B.S., and Katzenellenbogen J.A. Furans with basic side chains: synthesis and biological evaluation of a novel series of antagonists with selectivity for the estrogen receptor alpha. *Bioorg. Med. Chem. Lett.* 11:2521-4, 2001. **PMID:** [11549460](#)
201. Nuedling, S., Karas, R. H., Mendelsohn, M. E., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Meyre, R., Better, H., and Grohé, C. Activation of estrogen receptor α is a prerequisite for estrogen dependent upregulation of nitric oxide synthases in cardiac myocytes. *FEBS Lett.*, 502:103-108, 2001. **PMID:** [11583108](#)
202. Waters, K. M., Rickard, D. J., Riggs, B. L., Khosla, S., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Moore, J., and Spelsberg, T. C. Estrogen regulation of human

- osteoblast function is determined by the stage of differentiation and the estrogen receptor isoform. *J. Cell. Biochem.*, 83:448-452, 2001. **PMID: [11596113](#)**
203. Mortensen D.S., Rodriguez A.L., Carlson, K. E., Sun, J., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. . Synthesis and biological evaluation of a novel series of furans: Ligands selective for estrogen receptor alpha. *J. Med Chem.*, 44:3838-3848, 2001. **PMID: [11689070](#)**
204. Zhou, Q., Clarke, L., Nie, R., Carnes, K., Lai, L.-W., Lien, Y.-H. H., Verkman, A., Lubahn, D., Fisher, J. S., Katzenellenbogen, B. S., and Hess, R. A. Estrogen action and male fertility: Roles of the sodium/hydrogen exchanger-3 and fluid reabsorption in reproductive tract function. *Proc. Natl. Acad. Sci. USA*, 98:14132-14137, 2001. **PMID: [11698654](#) PMCID: [PMC61180](#)**
205. Meyers, M. J., Sun, J., Carlson, K. E., Marriner, G. A., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Estrogen receptor- α potency-selective ligands: Structure-activity relationship studies of diarylpropionitriles and their acetylene and polar analogs. *J. Med. Chem.*, 44:4230-4251, 2001. **PMID: [11708925](#)**
206. Katzenellenbogen, B. S., Sun, J., Harrington, W. R., Kraichely, D. M., Ganessunker, D., and Katzenellenbogen, J. A. Structure-function relationships in estrogen receptors and the characterization of novel selective estrogen receptor modulators (SERMs) with unique pharmacological profiles. Proceedings of the NIH Workshop on SERMs. *Annals of the New York Acad. Sci.*, 949:6-15, 2001. **PMID: [11795381](#)**
207. Sun, J., Huang, Y. R., Harrington, W. R., Sheng, S., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Antagonists selective for estrogen receptor- α . *Endocrinology*, 143:941-947, 2002. **PMID: [11861516](#)**
208. Kowalski, A. A., Graddy, L. G., Vale-Cruz, D. S., Choi, I., Katzenellenbogen, B. S., Simmen, F. A., and Simmen, R. C. Molecular cloning of porcine estrogen receptor-beta complementary DNAs and developmental expression in periimplantation embryos. *Biol. Reprod.*, 66:760-769, 2002. **PMID: [11870084](#)**
209. Rickard, D. J., Waters, K. M., Ruesink, T. J., Khosla, S., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Riggs, B. L., and Spelsberg, T. C. Estrogen receptor isoform-specific induction of progesterone receptors in human osteoblasts. *J. Bone Mineral Res.*, 17:580-592, 2002. **PMID: [11918216](#)**
210. Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Defining the "S" in SERMs. *Science*, 295:2380-2381, 2002. **PMID: [11923515](#)**
211. Shiau, A. K., Barstad, D., Radek, J. L., Meyers, M. J., Katzenellenbogen, B. S., Katzenellenbogen, J. A., Agard, D. A., and Greene, G. L. Structural characterization of a subtype-selective ligand reveals a novel mode of estrogen receptor antagonism. *Nature Structural Biology*, 9: 359-364, 2002. **PMID: [11953755](#)**
212. Nye, A. C., Rajendran, R. R., Stenoien, D. L., Mancini, M. A., Katzenellenbogen, B. S., and Belmont, A. S. Alteration of large-scale chromatin structure by estrogen receptor. *Mol. Cell. Biol.*, 22:3437-3449, 2002. **PMID: [11971975](#) PMCID: [PMC133805](#)**

213. Ediger, T. R., Park, S., and Katzenellenbogen, B. S. Estrogen receptor inducibility of the human Na⁺/H⁺ exchanger regulatory factor/ezrin-radixin-moesin binding protein 50 (NHERF/EBP50) gene via multiple half estrogen response elements. *Mol. Endocrinol.*, 16:1828-1839, 2002. **PMID:** [12145337](#)
214. Harris, H., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Characterization of the biological roles of the estrogen receptors, ER α and ER β , in estrogen target tissues in vivo through the use of an ER β -selective ligand. *Endocrinology*, 143:4172-4177, 2002. **PMID:** [12399409](#)
215. Zhou, Q., Nie, R., Prins, G. S., Saunders, P. T., Katzenellenbogen, B. S., and Hess, R. A. Localization of androgen and estrogen receptors in adult male mouse reproductive tract. *J. Androl.*, 23:870-881, 2002. **PMID:** [12399534](#)
216. Rajendran, R. R., Nye, A. C., Frasor, J., Balsara, R. D., Martini, P. G. V. and Katzenellenbogen, B. S. Regulation of nuclear receptor transcriptional activity by a novel DEAD box RNA helicase (DP97). *J. Biol. Chem.*, 278:4628-4638, 2003. **PMID:** [12466272](#)
217. Bowe, J., Li, X. F., Sugden, D., Katzenellenbogen, J. A., Katzenellenbogen, B. S., and O'Byrne, K. T. The effects of the phytoestrogen, coumestrol, on gonadotropin releasing hormone (GnRH) mRNA expression in the GT1-7 GnRH neurons. *J. Neuroendocrinol.*, 15:105-108, 2003. **PMID:** [12535152](#)
218. Ghosh, U., Ganessunker, D., Sattigeri, V. J., Carlson, K. E., Mortensen, D. J., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Estrogenic diazenes: Heterocyclic non-steroidal estrogens of unusual structure with selectivity for estrogen receptor subtypes. *Bioorg. Med. Chem.*, 11:629-657, 2003. **PMID:** [12538029](#)
219. Sun, J., Baudry, J., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Molecular basis for the subtype discrimination of the estrogen receptor beta selective ligand, diarylpropionitrile. *Mol. Endocrinol.*, 17:247-258, 2003. **PMID:** [12554752](#)
220. Sun, J., Katzenellenbogen, J. A., Zhao, H. and Katzenellenbogen, B. S. DNA shuffling method for generating estrogen receptor α and β chimeras in yeast. *BioTechniques*, 34:278-288, 2003. **PMID:** [12613251](#)
221. Muthyala, R. S., Sheng, S., Carlson, K. E., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Bridged bicyclic cores containing a 1,1-diarylethylene motif are high-affinity subtype-selective ligands for the estrogen receptor. *J. Med. Chem.*, 46:1589-1602, 2003. **PMID:** [12699377](#)
222. Frasor, J., Barnett, D. H., Danes, J. M., Hess, R., Parlow, A. F. and Katzenellenbogen, B. S. Response-specific and ligand dose-dependent modulation of estrogen receptor α activity by estrogen receptor β in the uterus. *Endocrinology*, 144:3159-3166, 2003. **PMID:** [12810572](#)
223. Martini, P. G. V. and Katzenellenbogen, B. S. Modulation of estrogen receptor activity by selective coregulators. *J. Steroid Biochem. Molec. Biol.*, 85:117-122, 2003. **PMID:** [12943695](#)

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224. Harrington, W. R., Sheng, S., Barnett, D. H., Petz, L., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Activities of estrogen receptor alpha- and beta-selective ligands at diverse estrogen responsive gene sites mediating transactivation or transrepression. *Molec. Cell. Endocrinol.*, 206:13-22, 2003. **PMID: [12943986](#)**
225. Minutolo F, Antonello M, Bertini S, Ortore G, Placanica G, Rapposelli S, Sheng S, Carlson KE, Katzenellenbogen BS, Katzenellenbogen JA, Macchia M. Novel estrogen receptor ligands based on an anthranilyldoxime structure: role of the phenol-type pseudocycle in the binding process. *J Med Chem.* 46(19):4032-42, 2003. **PMID: [12954056](#)**
226. Frasor, J., Danes, J. M., Komm, B., Chang, K., Lyttle, C. R., and Katzenellenbogen, B. S. Profiling of estrogen up- and down-regulated gene expression in human breast cancer cells: Insights into gene networks and pathways underlying estrogenic control of proliferation and cell phenotype. *Endocrinology*, 144: 4562-4574, 2003. **PMID: [12959972](#)**
227. Barletta, F., Wong, C. W., McNally, C., Katzenellenbogen, B. S. and Cheskis, B. J. Characterization of the interactions of estrogen receptor and MNAR in the activation of cSrc. *Mol. Endocrinol.*, 18:1096-1108, 2004. **PMID: [14963108](#)**
228. Nettles, K. W., Sun, J., Radek, J. T., Sheng, S., Rodriguez, A.L., Katzenellenbogen, J. A., Katzenellenbogen, B. S. and Greene, G. L. Allosteric control of ligand selectivity between estrogen receptors α and β : Implications for other nuclear receptors. *Molec Cell*, 13:317-327, 2004. **PMID: [14967140](#)**
229. Frasor, J., Stossi, F., Danes, J. M., Komm, B., Lyttle, C. R. and Katzenellenbogen, B. S. Selective estrogen receptor modulators (SERMs): Discrimination of agonistic versus antagonistic activities by gene expression profiling in breast cancer cells. *Cancer Research*, 64:1522-1533, 2004. **PMID: [14973112](#)**
230. Muthyala, R.S., Ju, Y.H., Sheng, S., Williams, L.D., Doerge, D.R., Katzenellenbogen, B.S., Helferich, W.G. and Katzenellenbogen J.A. Equol, a natural metabolite from soy isoflavones: Convenient preparation and resolution of R- and S-equols and their differing binding and biological activity through estrogen receptors alpha and beta. *Bioorg. Med. Chem.*, 12:1559-1567, 2004. **PMID: [15018930](#)**
231. Acevedo, M. L., Lee, K. C., Stender, J. D., Katzenellenbogen, B. S. and Kraus, W. L. Selective recognition of distinct classes of coactivators by a ligand-inducible activation domain. *Molec. Cell*, 13:725-738, 2004. **PMID: [15023342](#)**
232. Tsai, H.W., Katzenellenbogen, J. A., Katzenellenbogen, B. S. and Shupnik, M. A. Protein kinase A activation of estrogen receptor alpha transcription does not require proteasome activity and protects the receptor from ligand-mediated degradation. *Endocrinology*, 145:2730-2738, 2004. **PMID: [15033909](#)**
233. Stossi, F., Barnett, D. H., Frasor, J., Komm, B., Lyttle, C. R. and Katzenellenbogen, B. S. Transcriptional profiling of estrogen-regulated gene expression via estrogen receptor α or estrogen receptor β in human osteosarcoma cells: Distinct and common target genes for these receptors. *Endocrinology*, 145:3473-3486, 2004. **PMID: [15033914](#)**

234. Katzenellenbogen, B. S., and Frasor, J. Therapeutic targeting in the estrogen receptor hormonal pathway. *Seminars in Oncology*, 31:28-38, 2004. **PMID:** [15052541](#)
235. Chen, Z., Katzenellenbogen, B. S., Katzenellenbogen, J. A. and Zhao, H. Directed evolution of human estrogen receptor variants with significantly enhanced androgen specificity and affinity. *J. Biol. Chem.*, 279:33855-33864, 2004. **PMID:** [15159406](#)
236. Compton, D.R., Sheng, S., Carlson, K.E., Rebacz, N.A., Lee, I.Y., Katzenellenbogen, B.S. and Katzenellenbogen, J.A. Pyrazolo[1.5- \square]pyrimidines: Estrogen receptor ligands possessing estrogen receptor beta antagonist activity. *J. Med. Chem.*, 47:5872-5893, 2004. **PMID:** [15537344](#)
237. Park, S.E., Xu, J., Frolova, A., Liao, L., O'Malley, B.W. and Katzenellenbogen, B.S. Genetic deletion of the repressor of estrogen receptor activity (REA) enhances response to estrogen in target tissues in vivo. *Molec. Cell. Biol.*, 25: 1989-1999, 2005. **PMID:** [15713652](#)
PMCID: [PMC549370](#)
238. De Angelis, M., Stossi, F., Carlson, K.A., Katzenellenbogen, B.S. and Katzenellenbogen, J.A. Indazole estrogens: Highly selective ligands for the estrogen receptor beta. *J. Med. Chem.*, 48:1132-1144, 2005. **PMID:** [15715479](#)
239. Montano, M.M, Bianco, N.R., Deng, H., Wittmann, B.M., Chaplin, L. and Katzenellenbogen, B.S. Estrogen receptor regulation of quinone reductase in breast cancer: Implications for estrogen-induced breast tumor growth and the therapeutic uses of tamoxifen. *Frontiers in Bioscience*, 10:1440-1461, 2005. **PMID:** [15769636](#)
240. Zhao, X., Lorenc, H., Stephenson, H., Wang, Y. J., Witherspoon, D., Katzenellenbogen, B., Pfaff, D. and Vasudevan, N. Thyroid hormone can increase estrogen-mediated transcription from a consensus estrogen response element in neuroblastoma cells. *Proc. Natl. Acad. Sci. USA*, 102:4890-4895, 2005. **PMID:** [15778291](#), **PMCID:** [PMC555723](#)
241. Aghmesheh, M., Edwards, L., Clarke, C.L., Byth, K., Katzenellenbogen, B.S., Russell, P.J., Friedlander, M., Tucker, K.M. and DeFazio, A. Expression of steroid hormone receptors in BRCA1-associated ovarian carcinomas. *Gynecol. Oncol.*, 97:16-25, 2005. **PMID:** [15790432](#)
242. Rai, D., Frolova, A., Frasor, J., Carpenter, A. E. and Katzenellenbogen, B. Distinctive actions of membrane targeted versus nuclear localized estrogen receptors in breast cancer cells. *Mol. Endocrinol.*, 19:1606-1617, 2005. **PMID:** [15831524](#)
243. Guerini, V., Sau, D., Rusmini, P., Ciana, P., Maggi, A., Martini, P.G.V., Katzenellenbogen, B., Motta, M. and Poletti, A. The androgen derivative 5 α -androstane-3 β , 17 β -diol inhibits prostate cancer cell migration through activation of the estrogen receptor beta subtype. *Cancer Research*, 65: 5445-5453, 2005. **PMID:** [15958594](#)
244. Wang, C., Fan, S., Li, Z., Fu, M., Rao, M., Ma, Y., Lisanti, M.P., Albanese, C., Katzenellenbogen, B.S., Kushner, P.J., Weber, B., Rosen, E.M. and Pestell, R.G. Cyclin D1 antagonizes BRCA1 repression of estrogen receptor activity. *Cancer Research*, 65:6557-6567, 2005. **PMID:** [16061635](#)

245. De Angelis, M., Stossi, F., Waibel, M., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Isocoumarins as estrogen receptor beta selective ligands: Isomers of isoflavone phytoestrogens and their metabolites. *Bioorg. Med. Chem.*, 13:6529-6542, 2005. **PMID:** [16099659](#)
246. Frasor, J., Danes, J. M., Funk, C. C. and Katzenellenbogen B.S. Estrogen down-regulation of the corepressor N-CoR: Mechanism and implications for estrogen derepression of N-CoR-regulated genes. *Proc. Natl. Acad. Sci. USA*, 102:13153-13157, 2005. **PMID:** [16141343](#)
PMCID: [PMC1201577](#)
247. Duong, V., Licznar, A., Margueron, R., Boulle, N., Lacroix, M., Katzenellenbogen, B.S., Cavailès, V. and Lazennec, G. ER α and ER β expression and transcriptional activity are differentially regulated by HDAC inhibitors. *Oncogene*, 25:1799-1806, 2006. **PMID:** [16158045](#) **PMCID:** [PMC2034758](#)
248. Mishra, R.G., Stanczyk, F.Z., Burry, K.A., Oparil, S., Katzenellenbogen, B.S., Nealen, M.L., Katzenellenbogen, J.A. and Hermsmeyer, R.K. Metabolite ligands of estrogen receptor beta reduce primate coronary hyperreactivity. *Amer. J. Physiol.*, 290:H295-H303, 2005. **PMID:** [16199482](#)
249. Zhou, H. B., Comninos, J. S., Stossi, F., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Synthesis and evaluation of estrogen receptor ligands with bridged oxabicyclic cores containing a diarylethylene motif: Estrogen antagonists of unusual structure. *J. Med. Chem.*, 48:7261-7274, 2005. **PMID:** [16279785](#)
250. Harrington, W. R., Kim, S. H., Funk, C. C., Madak-Erdogan, Z., Schiff, R., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Estrogen dendrimer conjugates that preferentially activate extranuclear, non-genomic versus genomic pathways of estrogen action. *Mol. Endocrinol.*, 20: 491-502, 2006. **PMID:** [16306086](#)
251. Minutolo, F., Bertini, S., Martinelli, A., Ortore, G., Placanica, G., Prota, G., Rapposelli, S., Tuccinardi, T., Sheng, S., Carlson, K. E., Katzenellenbogen, B. S., Katzenellenbogen, J. A. and Macchia, M. Salicylaldoximes and anthranilylaldoximes as alternatives to phenol-based estrogen receptor ligands. *Arkivoc*, viii: 83-94, 2006. **PMID:** N/A
252. Stossi, F., Likhite, V. S., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Estrogen-occupied estrogen receptor represses cyclin G2 gene expression and recruits a repressor complex at the cyclin G2 promoter. *J. Biol. Chem.*, 281:16272-16278, 2006. **PMID:** [16608856](#)
253. Harrington, W. R., Sengupta, S. and Katzenellenbogen, B. S. Estrogen regulation of the glucuronidation enzyme UGT2B15 in estrogen receptor-positive breast cancer cells. *Endocrinology*, 147:3843-3850, 2006. **PMID:** [16690804](#)
254. Chang, E. C., Frasor, J., Komm, B. and Katzenellenbogen, B. S. Impact of estrogen receptor beta on gene networks regulated by estrogen receptor alpha in breast cancer cells. *Endocrinology*, 147:4831-4842, 2006. **PMID:** [16809442](#)
255. Frasor, J., Chang, E. C., Komm, B., Lin, C. Y., Vega, V. B., Liu, E. T., Miller, L. D., Smeds, J., Bergh, J. and Katzenellenbogen, B. S. Gene expression preferentially regulated by

- tamoxifen in breast cancer cells and correlations with clinical outcome. *Cancer Research*, 66:7334-7340, 2006. **PMID: [16849584](#)**
256. Likhite, V. S., Stossi, F., Kim, K., Katzenellenbogen, B. S. and Katzenellenbogen, J. A. Kinase-specific phosphorylation of the estrogen receptor changes receptor interactions with ligand, DNA, and coregulators associated with alterations in estrogen and tamoxifen activity. *Mol. Endocrinol.*, 20: 3120-3132, 2006. **PMID: [16945990](#)**
257. Mussi, P., Liao, L., Park, S.E., Ciana, P., Maggi, A., Katzenellenbogen, B. S., Xu, J., O'Malley, B. W. Haploinsufficiency of the corepressor of estrogen receptor activity (REA) enhances estrogen receptor function in the mammary gland. *Proc. Natl. Acad. Sci. USA*, 103:16716-16721, 2006. **PMID: [17065319](#), PMCID: [PMC1636521](#)**
258. Zhou HB, Sheng S, Compton DR, Kim Y, Joachimiak A, Sharma S, Carlson KE, Katzenellenbogen BS, Nettles KW, Greene GL, Katzenellenbogen JA. Structure-guided optimization of estrogen receptor binding affinity and antagonist potency of pyrazolopyrimidines with basic side chains. *J Med Chem.*, 50:399-403, 2007. **PMID: [17228884](#)**
259. Gowri, P. M., Sengupta, S., Bertera, S., Katzenellenbogen, B. S. Lipin1 regulation by estrogen in uterus and liver: implications for diabetes and fertility, *Endocrinology*, 148:3685-3693, 2007. **PMID: [17463059](#)**
260. Lin, C. Y., Vega, V. B., Thomsen, J. S., Zhang, T., Kong, S. L., Xie, M., Chiu, K. P., Lipovich, L., Barnett, D. H., Stossi, F., George, J., Kuznetsov, V. A., Lee, Y. K., Charn, T. H., Palanisamy, N., Miller, L. D., Katzenellenbogen, B. S., Ruan, Y., Bourque, G., Wei, C., Liu, E. T. Whole-genome cartography of estrogen receptor-alpha binding sites. *PLoS Genetics*, 3:e87, 2007. **PMID: [17542648](#), PMCID: [PMC1885282](#)**
261. Stender, J. D., Frasor, J., Komm, B., Chang, K. C. N., Kraus, W. L., Katzenellenbogen, B. S. Estrogen regulated gene networks in human breast cancer cells: involvement of E2F1 in the regulation of cell proliferation, *Mol. Endocrinol.* 21: 2112 – 2123, 2007. **PMID: [17550982](#)**
262. Zhou H. B., Nettles K. W., Bruning J. B., Kim Y., Joachimiak A., Sharma S., Carlson K. E., Stossi F, Katzenellenbogen B. S., Greene G. L., Katzenellenbogen J. A. Elemental isomerism: a boron-nitrogen surrogate for a carbon-carbon double bond increases the chemical diversity of estrogen receptor ligands. *Chem. Biol.*, 14:659-69, 2007. **PMID: [17584613](#)**
263. He, B., Feng, Q., Mukherjee, A., Lonard, D. M., DeMayo, F. J., Katzenellenbogen, B. S., Lydon, J. P., O'Malley, B. W. A repressive role for prohibitin in estrogen signaling. *Mol. Endocrinol.*, 22:344-360, 2008. **PMID: [17932104](#), PMCID: [PMC2234581](#)**
264. Chang, E.C., Charn, T. H., Park, S. H., Helferich, W. G., Komm, B., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Estrogen receptors alpha and beta as determinants of gene expression: influence of ligand, dose, and chromatin binding. *Mol. Endocrinol.*, 22:1032-43, 2008. **PMID: [18258689](#), PMCID: [PMC2366177](#)**
265. Minutolo, F., Bellini, R., Bertini, S., Carboni, I., Lapucci, A., Pistolesi, L., Prota, G., Rapposelli, S., Solati, F., Tuccinardi, T., Martinelli, A., Stossi, F., Carlson, K.E.,

- Katzenellenbogen, B.S., Katzenellenbogen, J.A., and Macchia, M. Monoaryl-substituted salicylaldoximes as ligand for estrogen receptor beta. *Journal of Medicinal Chemistry* **51** (5):1344-1351, 2008. **PMID:** [18269232](#)
266. Nettles, K. W., Bruning, J. B., Gil, G., Nowak, J., Sharma, S. K., Hahm, J. B., Kulp, K., Hochberg, R. B., Zhou, H., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Kim, Y., Joachmiak, A., Greene, G. L. NFkappaB selectivity of estrogen receptor ligands revealed by comparative crystallographic analyses. *Nat Chem Biol.*, **4**:241-247, 2008. **PMID:** [18344977](#), **PMCID:** [PMC2659626](#), **NIHMSID82437**
267. Paulmurugan, R., Tamrazi, A., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Gambhir, S. S. A human estrogen receptor (ER){alpha} mutation with differential responsiveness to nonsteroidal ligands: novel approaches for studying mechanism of ER action. *Mol. Endocrinol.*, **22**:1552-64, 2008. **PMID:** [18451095](#), **PMCID:** [PMC2453600](#)
268. Barnett, D. H., Sheng, S., Charn, T. H., Waheed, A., Sly, W. S., Lin, C. Y., Liu, E. T., Katzenellenbogen, B. S. Estrogen receptor regulation of *Carbonic Anhydrase XII* through a distal enhancer in breast cancer. *Cancer Research*, **68**:3505-15, 2008. **PMID:** [18451179](#)
269. Alyea, R. A., Laurence, S. E., Kim, S. H., Katzenellenbogen, B. S., Katzenellenbogen, J. A. and Watson, C. S.. The roles of membrane estrogen receptor subtypes in modulating dopamine transporters in PC-12 cells. *J Neurochem* **106**(4): 1525-33, 2008. **PMID:** [18489713](#), **PMCID:** [PMC2574842](#), **NIHMSID56845**
270. Madak-Erdogan, Z., Kieser, K. J., Kim, S. H., Komm, B., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Nuclear and extranuclear pathway inputs in the regulation of global gene expression by estrogen receptors. *Mol. Endocrinol.*, **22**:2116-2127, 2008. **PMID:** [18617595](#), **PMCID:** [PMC2631368](#)
271. Sengupta, S., Schiff, R., Katzenellenbogen, B. S. Post-transcriptional regulation of chemokine receptor CXCR4 by estrogen in HER2 overexpressing, estrogen receptor-positive breast cancer cells. *Breast Cancer Research and Treatment*, **117**:243-251, 2009. [2008 Sep 19 Epub ahead of print]. **PMID:** [18807177](#), **PMCID:** [PMC2728144](#), **NIHMSID70598**
272. Sheng, S., Barnett, D. H., Katzenellenbogen, B. S. Differential estradiol and selective estrogen receptor modulator (SERM) regulation of keratin 13 gene expression and its underlying mechanism in breast cancer cells. *Mol. Cell Endocrinol.*, **296**: 1-9, 2008. **PMID:** [18951949](#), **PMCID:** [PMC2654210](#), **NIHMSID82058**
273. Zhou, H. B., Carlson, K. E., Stossi, F., Katzenellenbogen, B. S., Katzenellenbogen, J. A. Analogs of methyl-piperidinopyrazole (MPP): Antiestrogens with estrogen receptor α selective activity. *Bioorganic & Medicinal Chemistry Letters*, **19**(1):108-10, 2009. **PMID:** [19014882](#), **PMCID:** [PMC2711511](#) **NIHMSID112714**
274. Achari, Y., Lu, T., Katzenellenbogen, B.S., Hart, D. A. Distinct roles for the activation functions-1 and -2 of estrogen receptor-alpha in regulation of MMP-13 promoter activity. *Biochem Biophys Acta – Molecular Basis of Disease*, **1792**:211-220, 2009. **PMID:** [19185056](#)

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275. Stossi, F., Madak-Erdogan, Z., Katzenellenbogen, B. S. Estrogen receptor alpha represses transcription of early target genes via p300 and CtBP1. *Mol. Cell Biol.* 29:1749-59, 2009. **PMID: [19188451](#) PMCID: [PMC2655624](#)**
276. Waibel, M., De Angelis, M., Stossi, F., Kieser, K.J., Carlson, K.E., Katzenellenbogen, B.S., Katzenellenbogen, J.A. Bibenzyl- and stilbene-core compounds with non-polar linker atom substituents as selective ligands for estrogen receptor beta. *Eur J Med Chem.* 44:3412-3424, 2009. **PMID: [19286283](#), PMCID: [PMC3175689](#)**
277. Waibel, M., Kieser, K.J., Carlson, K.E., Stossi, F., Katzenellenbogen, B.S., and Katzenellenbogen, J.A. Phenethyl pyridines with non-polar internal substituents as selective ligands for estrogen receptor beta. *Eur J Med Chem.* 44 (9):3560-3570, 2009. **PMID: [19394116](#), PMCID: [PMC3176332](#)**
278. Hartmaier, R.J., Walenkamp, M.J.E., Richter, A.S., Wang, J., Katzenellenbogen, B.S., Oesterreich, S., Wit, J.M. A case of premature thelarche with no central cause or genetic variants within the estrogen receptor signaling pathway. *J Pediatr Endocrinol Metab* 22:751-758, 2009. **PMID: [19845126](#)**
279. Charn, T.H., Liu, E.T., Chang, E.C., Lee, Y.K., Katzenellenbogen, J.A., Katzenellenbogen, B.S. Genome-wide dynamics of chromatin binding of estrogen receptors α and β : Mutual restriction and competitive site selection. *Mol. Endocrinol* 24(1):47-59, 2010. **PMID: [19897598](#) PMCID: [PMC2802902](#)**
280. Minutolo, F., Macchia, M., Katzenellenbogen, B.S., Katzenellenbogen, J.A. Estrogen receptor beta ligands: recent advances and biomedical applications. *Medicinal Research Reviews*, 31:364-442, 2011. **PMID: [19967775](#)**
281. Kieser, K., Kim, D.W., Katzenellenbogen, B.S., Katzenellenbogen, J.A. Characterization of the Pharmacophore Properties of Novel Selective Estrogen Receptor Downregulators (SERDs). *J. Med. Chem.*, 53(8):3320-3329, 2010. **PMID: [20334372](#), PMCID: [PMC2916745](#)**
282. Stender, J.D., Kim, K., Charn, T.H., Komm, B., Chang, K.C.N., Kraus, W.L., Benner, C., Glass, C. K., Katzenellenbogen, B.S. Genome-Wide Analysis of Estrogen Receptor- α DNA Binding and Tethering Mechanisms Identifies Runx1 as a Novel Tethering Factor in Receptor-Mediated Transcriptional Activation. *Mol. Cell Biol.* 30:3943-3955, 2010. **PMID: [20547749](#), PMCID: [PMC2916448](#)**
283. Chambliss, K.L., Wu, Q., Oltmann, S., Konaniah, E.S. Umetani, M., Korach, K.L., Thomas, G.D., Mineo, C., Yuhanna, I.S., Kim, S.H., Madak-Erdogan, Z., Maggi, A., Dineen, S.P., Roland, C.L., Hui, D.Y., Brekken, R.A., Katzenellenbogen, J.A., Katzenellenbogen, B.S., Shaul, P.W.. Non-nuclear Estrogen Receptor α Signaling Promotes Cardiovascular Protection but not Uterine or Breast Cancer Growth in Mice. *J. Clin. Invest.* 120(7):2319-2330, 2010. **PMID: [20577047](#) PMCID: [PMC2898582](#)**
284. Wong, W. P. S., Tiano, J. P., Oeser, M. L., Liu, S., LeMay, C., Dalle, S., Hu, M., Gunton, J. E., Simpson, E. R., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Korach, K. S., Jameson, J. L., Mauvais-Jarvis, F. Extranuclear estrogen receptor- α stimulates NeuroD1 binding to the insulin promoter and favors insulin synthesis. *Proc. Natl. Acad. Sci. USA*, 107:13057-13062, 2010. **PMID: [20616010](#), PMCID: [PMC2919966](#)**

285. Marshall, G.M., Gherardi, S., Xu, N., Neiron, Z., Trahair, T., Scarlett, C.J., Chang, D.K., Liu, P.Y., Jankowski, K., Iraci, N., Haber, M., Norris, M.D. Keating, J., Sekyere, E., Stossi, F., Katzenellenbogen, B.S., Biankin, A.V., Perini, G., and Liu, T. Transcriptional up-regulation of histone deacetylase 2 promotes Myc-induced oncogenic effects. *Oncogene*. 29:5957-5968, 2010. **PMID: [20697349](#)**
286. Santollo, J., Katzenellenbogen, B.S., Katzenellenbogen, J.A., Eckel, L.A. Activation of ER α is necessary for estradiol's anorexigenic effect in female rats. *Horm. Behav.* 58(5): 872-877, 2010. **PMID: [20807534](#), PMCID: [PMC2982904](#)**
287. Madak-Erdogan, Z., Lupien, M., Stossi, F., Brown, M., Katzenellenbogen, B.S. Genomic Collaboration of Estrogen Receptor α and Extracellular Signal-Regulated Kinase 2 in Regulating Gene and Proliferation Programs. *Mol. Cell Biol*, 31: 226-236, 2011. **PMID: [20956553](#) PMCID: [PMC3019850](#)**
288. He, B., Kim, T.H., Kommagani, R., Feng, Q., Lanz, R.B., Jeong, J.W., DeMayo, F.J., Katzenellenbogen, B.S., Lydon, J.P., O'Malley, B.W. Estrogen-regulated prohibitin is required for mouse uterine development and adult function. *Endocrinology*. 152:1047-1056, 2011. **PMID: [21209023](#), PMCID: [PMC3040048](#)**
289. Bergamaschi, A. and Katzenellenbogen, B.S. Tamoxifen down-regulation of miR-451 increases 14-3-3 ζ and promotes breast cancer cell survival and endocrine resistance. *Oncogene* 31:39-47, 2012. **PMID: [21666713](#), PMCID: [PMC3175015](#)**
290. Bergamaschi, A., Christensen, B., Katzenellenbogen, B.S. Reversal of Endocrine Resistance in Breast Cancer: Interrelationships Among 14-3-3 ζ , FOXM1, and a Gene Signature Associated with Mitosis. *Breast Cancer Research* 13(3):R70, 2011. **PMID: [21707964](#), PMCID: [PMC3218959](#)**
291. Stossi, F., Madak-Erdogan, Z., and Katzenellenbogen, B.S. Macrophage-Elicited Loss of Estrogen Receptor- α in Breast Cancer Cells via Involvement of MAPK and c-Jun at the ESR1 Genomic Locus. *Oncogene* 31:1825–1834, 2012. **PMID: [21860415](#) PMCID: [PMC3223561](#)**
292. Park, S., Zhao, Y., Yoon, S., Xu, J., Liao, L., Lydon, J., DeMayo, F., O'Malley, B.W. and Katzenellenbogen, B.S. Repressor of Estrogen Receptor Activity (REA) is Essential for Mammary Gland Morphogenesis and Functional Activities: Studies in Conditional Knockout Mice. *Endocrinology* 152(11):4336-4349, 2011. **PMID: [21862609](#), PMCID: [PMC3199013](#)**
293. Stender, J.D., Stossi, F., Funk, C.C., Charn, T.H., Barnett, D.H., Katzenellenbogen, B.S. The Estrogen Regulated Transcription Factor PITX1 Coordinates Gene-Specific Regulation by Estrogen Receptor-Alpha in Breast Cancer Cells. *Mol Endocrinol.* 25(10):1699-1709, 2011. **PMID: [21868451](#) PMCID: [PMC3182422](#)**
294. Madak-Erdogan, Z. and Katzenellenbogen, B.S. Aryl Hydrocarbon Receptor Modulation of Estrogen Receptor {alpha}-Mediated Gene Regulation by a Multimeric Chromatin Complex Involving the Two Receptors and the Coregulator RIP140. *Toxicological Sciences* 125:401-411, 2012. **PMID: [22071320](#) PMCID: [PMC3262852](#)**
295. Bhatt, S., Xiao, Z., Meng, Z. and Katzenellenbogen, B.S. Phosphorylation by p38 Mitogen-Activated Protein Kinase Promotes Estrogen Receptor- α Turnover and Functional Activity via the SCFSkp2 Proteasomal Complex. *Mol. Cell. Biol.* 32: 1928-1943, 2012. **PMID: [22431515](#) PMCID: [PMC3347406](#)**

296. Park, S., Yoon, S., Zhao, Y., Park, S.E., Liao, L., Xu, J., Lydon, J.P., DeMayo, F.J., O'Malley, B.W., Bagchi, M.K. and Katzenellenbogen, B.S. Uterine Development and Fertility are Dependent on Gene Dosage of the Nuclear Receptor Coregulator REA. *Endocrinology* 153:3982-3994, 2012. **PMID: [22585830](#) PMCID: [PMC3404350](#)**
297. Kim, K., Madak-Erdogan, Z. and Katzenellenbogen, B.S. A MicroRNA196a2* and TP63 Circuit Regulated by Estrogen Receptor- α and ERK2 that Controls Breast Cancer Proliferation and Invasiveness Properties. *Hormones and Cancer* 4:78-91, 2013 **PMID: [23250869](#) PMCID: [PMC3581735](#)**
298. Bergamaschi, A., Frasor, J., Borgen, K., Stanculescu, A., Johnson, P., Rowland, K., Wiley, E.L., and Katzenellenbogen, B.S. 14-3-3 zeta as a Predictor of Early Time to Recurrence and Distant Metastasis in Hormone Receptor-Positive and -Negative Breast Cancers. *Breast Cancer Research and Treatment*, 137(3):689-696, 2013. **PMID: [23271328](#) PMCID: [PMC3632437](#)**
299. Zhao, Y., Park, S., Bagchi, M.K., Taylor, R.N., and Katzenellenbogen, B.S. The Coregulator, Repressor of Estrogen Receptor Activity (REA), is Crucial in the Control of the Timing and Magnitude of Uterine Decidualization. *Endocrinology* 154:1349-1360, 2013. **PMID: [23392257](#) PMCID: [PMC3578990](#)**
300. Bartell, S.M., Li, H., Kim, S.H., Katzenellenbogen, J.A., Katzenellenbogen, B.S., Chambliss, K.L., Shaul, P.W., Roberson, P.K., Weinstein, R.S., Jilka, R.L., Almeida, M., Manolagas, S.C. Non-nuclear-initiated actions of the estrogen receptor protect cortical bone mass. *Mol Endo.* 27(4):649-656, 2013. **PMID: [23443267](#) PMCID: [PMC3607700](#)**
301. Madak-Erdogan, Z. Charn, T.H., Jiang, Y., Liu, S.T., Katzenellenbogen, J.A. and Katzenellenbogen B.S. Integrative Genomics of Gene and Metabolic Regulation by Estrogen Receptors α and β , and Their Coregulators. 2013, *Molecular Systems Biology*, 9:676 **PMID: [23774759](#) PMCID: [PMC3964312](#)**
302. Jiang, Y., Gong, P., Madak-Erdogan, Z., Martin, T., Jeyakumar, M., Carlson, K., Khan, I., Smillie, T.J., Chittiboyina, A.G., Rotte, S.C.K., Helferich, W.G., Katzenellenbogen, J.A. and Katzenellenbogen, B.S. Mechanisms Enforcing the Estrogen Receptor Beta-Selectivity of Botanical Estrogens. *FASEB J.* 27(11):4406-4418, 2013. **PMID: [23882126](#) PMCID: [PMC3804744](#)**
303. Clark, S., Rainville, J., Zhao, X., Katzenellenbogen, B.S., Pfaff, D., and Vasudevan, N. Estrogen receptor-mediated transcription involves the activation of multiple kinase pathways in neuroblastoma cells. *J Steroid Biochem Mol Biol.*139:45-53, 2013. **PMID: [24121066](#)**
304. Madak-Erdogan, Z., Ventrella, R., Petry, L., and Katzenellenbogen B.S Novel roles for ERK5 and Cofilin as Critical Mediators Linking Estrogen Receptor α -Driven Transcription, Actin Reorganization and Invasiveness in Breast Cancer. *Mol Cancer Res.* 12:714-727, 2014. **PMID: [24505128](#) PMCID: [PMC4020978](#)**
305. Mir, M. Bergamaschi, A., Katzenellenbogen, B.S. and Popescu, G., Highly sensitive quantitative imaging for monitoring single cancer cell growth kinetics and drug response. *PLoS One.* 9(2):e89000, 2014. **PMID: [24558461](#) PMCID: [PMC3928317](#)**
306. Holton, S.E., Bergamaschi, A., Katzenellenbogen, B.S. and Bhargava, R. Integration of molecular profiling and chemical imaging to elucidate fibroblast-microenvironment impact on

- cancer cell phenotype and endocrine resistance in breast cancer. *PLoS One*. 9(5):e96878, 2014. PMID: [24816718](#) PMCID: [PMC4016150](#)
307. Aumsuwan P, Khan SI, Khan IA, Avula B, Walker LA, Helferich WG, Katzenellenbogen BS, Dasmahapatra AK. Evaluation of wild yam (*Dioscorea villosa*) root extract as a potential epigenetic agent in breast cancer cells. *In vitro Cell Dev Biol Anim*. 2014 Aug 23 [Epub ahead of print] PMID: [25148825](#)
308. Bergamaschi, A., Madak-Erdoğan, Z., Kim, Y.J., Choi, Y.L., Lu, H. and Katzenellenbogen, B.S. The Forkhead Transcription Factor FOXM1 Promotes Endocrine Resistance and Invasiveness in Estrogen Receptor-Positive Breast Cancer by Expansion of Stem-like Cancer Cells. *Breast Cancer Research*. 16:436, 2014. PMID: [25213081](#) PMCID: [PMC4303117](#)
309. Abot, A., Fontaine, C., Buscato, M., Solinhac, R., Flouriot, G., Fabre, A., Drougard, A., Rajan, S., Laine, M., Milon, A., Muller, I., Henrion, D., Adlanmerini, M., Valéra, M.C., Gompel, A., Gerard, C., Péqueux, C., Mestdagt, M., Raymond-Letron, I., Knauf, C., Ferriere, F., Valet, P., Gourdy, P., Katzenellenbogen, B.S., Katzenellenbogen, J.A., Lenfant, F., Greene, G.L., Foidart, J.M., Arnal, J.F. The uterine and vascular actions of estetrol delineate a distinctive profile of estrogen receptor α modulation, uncoupling nuclear and membrane activation. *EMBO Molecular Medicine* 6:1328-1346, 2014. PMID: [25214462](#) PMCID: [PMC4287935](#)
310. Zhao, Y., Li, Q., Katzenellenbogen, B.S., Lau, L.F., Taylor, R.N., and Bagchi, M.K. Estrogen-Induced CCN1 is Critical for Establishment of Endometriosis-like Lesions in Mice. *Molecular Endocrinology* 12:1934-1947, 2014. PMID: [25321413](#) PMCID: [PMC4250364](#)
311. Gong, P., Madak-Erdogan, Z., Li, J., Cheng, J., Greenlief, C.M., Helferich, W.G., Katzenellenbogen, J.A., and Katzenellenbogen, B.S. Transcriptomic Analysis identifies gene networks regulated by ER α and ER β that control distinct effects of different botanical estrogens. *Nuclear Receptor Signaling* 12:e001. 2014. PMID: [25363786](#) PMCID: [PMC4193135](#)
312. Paterni, I., Bertini, S., Granchi, C., Tuccinardi, T., Macchia, M., Martinelli, A., Caligiuri, I., Toffoli, G., Rizzolio, F., Carlson, K.E., Katzenellenbogen, B.S., Katzenellenbogen, J.A., and Minutolo, F. Highly Selective Salicylketoxime-Based Estrogen Receptor β Agonists Display Antiproliferative Activities in a Glioma Model. *J. Med. Chem.* 58:1184-1194 2015. PMID: [25559213](#) PMCID: [PMC4610302](#)
313. Zhao, Y., Gong, P., Chen, Y., Nwachukwu, J.C., Srinivasan, S., Ko, C.M., Bagchi, M.K., Taylor, R.N., Korach, K.S., Nettles, K.W., Katzenellenbogen, J.A., and Katzenellenbogen, B.S. Dual Suppression of Estrogenic and Inflammatory Activities for Targeting of Endometriosis. *Sci Transl Med*. 7:271ra9, 2015. PMID: [25609169](#)
314. Kim SH, Madak-Erdogan Z, Bae SC, Carlson K, Mayne C, Granick S, Katzenellenbogen BS; Katzenellenbogen JA. Ligand Accessibility and Bioactivity of a Hormone-Dendrimer Conjugate Depend on pH and pH History. *J. Amer. Chem. Soc.* 137:10326-10335, 2015. PMID: [26186415](#)
315. Valera M.C., Fontaine, C., Lenfant F., Cabou, C., Guillaume, M., Smirnova, N., Kim, S.H., Chambon, P., Katzenellenbogen J.A., Katzenellenbogen B.S., Payrastra, B., and Arnal J.F. Protective hematopoietic impact of estrogens in a mouse model of thrombosis: respective roles of nuclear vs membrane estrogen receptor alpha. *Endocrinology*, 156:4293-4301, 2015. PMID: [26280130](#) PMCID: [PMC4606746](#)

316. Smirnova NF, Fontaine C, Buscato M, Lupieri A, Vinel A, Valéra MC, Guillaume M, Malet N, Foidart JM, Raymond-Letron I, Lenfant F, Gourdy P, Katzenellenbogen BS, Katzenellenbogen JA, Laffargue M, Arnal JF. The Activation Function-1 of Estrogen Receptor A Prevents Arterial Neointima Development Through a Direct Effect on Smooth Muscle Cells. *Circ Res.* 117:770-778, 2015. **PMID:** [26316608](#) **PMCID:** [PMC4596486](#)
317. Poitelon, Y., Bogni, S., Matafora, V., Nunes, G.D.F., Hurley, E., Ghidinelli, M., Katzenellenbogen, B.S., Taveggia, C., Silvestri, N., Bachi, A., Sannino, A., Wrabetz, L., Feltri, M.L. Spatial mapping of juxtacrine axo-glia interactions identifies novel molecules in peripheral myelination. *Nature Comms.* 6:8303, 2015. DOI: 10.1038/ncomms9303. **PMID:** [26383514](#) **PMCID:** [PMC4576721](#)
318. Madak Erdogan Z, Gong P, Zhao YC, Xu L, Wrobel KU, Hartman JA, Wang M, Cam A, Iwaniec UT, Turner RT, Twaddle NC, Doerge DR, Khan IA, Katzenellenbogen JA, Katzenellenbogen BS, and Helferich WG. Dietary licorice root supplementation improves diet-induced weight gain, lipid deposition and hepatic steatosis in ovariectomized mice without stimulating reproductive tissues and mammary gland. *Mol Nutr Food Res.* 60(2):369-80, 2016 Feb. doi: 10.1002/mnfr.201500445. **PMID:** [26555669](#) **PMCID:** [PMC4738101](#)
319. Boonmuen N, Gong P, Ali Z, Chittiboyina AG, Khan I, Doerge DR, Helferich WG, Carlson KE, Martin T, Piyachaturawat P, Katzenellenbogen JA, and Katzenellenbogen BS. Licorice Root Components in Dietary Supplements are Selective Estrogen Receptor Modulators with a Spectrum of Estrogenic and Anti-Estrogenic Activities. *Steroids* 105:42-9, 2016 Jan. doi: 10.1002/mnfr.201500445. **PMID:** [26631549](#) **PMCID:** [PMC4714869](#)
320. Zhao Y, Chen Y, Bagchi MK, Taylor RN, Katzenellenbogen JA, Katzenellenbogen BS. Multiple Beneficial Roles of Repressor of Estrogen Receptor Activity (REA) in Suppressing the Progression of Endometriosis. *Endocrinology* 157(2):900-12, 2016. Feb. doi: 10.1210/en.2015-1324. Epub 2015 Dec 14. **PMID:** [26653759](#) **PMCID:** [PMC4733120](#)
321. Aumsuwan P, Khan SI, Khan IA, Ali Z, Avula B, Walker LA, Shariat-Madar Z, Helferich WG, Katzenellenbogen BS, Dasmahapatra AK. The anticancer potential of steroidal saponin, dioscin, isolated from wild yam (*Dioscorea villosa*) root extract in invasive human breast cancer cell line MDA-MB-231 in vitro. *Arch Biochem Biophys.* 591:98-110, 2016 Feb 1. doi: 10.1016/j.abb.2015.12.001. Epub 2015 Dec 10. **PMID:** [26682631](#)
322. Madak Erdogan Z, Gong P, Katzenellenbogen BS. Differential Utilization of Nuclear and Extranuclear Receptor Signaling Pathways in the Actions of Estrogens, SERMs, and a Tissue-Selective Estrogen Complex (TSEC). *J Steroid Biochem Molec Biol.* 158:198-206, 2016 Apr. doi: 10.1016/j.jsbmb.2015.12.008. Epub 2015 Dec 12. **PMID:** [26689478](#)
323. Fanning SW, Mayne CG, Dharmarajan V, Carlson KE, Martin TA, Novick SJ, Toy W, Greene B, Pancharukhi S, Katzenellenbogen BS, Tajkhorshid E, Griffin PR, Shen Y, Chandarlapaty S, Katzenellenbogen JA, Greene GL. Estrogen Receptor Alpha Somatic Mutations Y537S and D538G Confer Breast Cancer Endocrine Resistance by Stabilizing the Activating Function-2 Binding Conformation. *Elife* 2016; Feb 2;5. pii: e12792. doi: 10.7554/eLife.12792 **PMID:** [26836308](#) **PMCID:** [PMC4821807](#)
324. Bhatt S, Stender JD, Joshi S, Wu G and Katzenellenbogen BS. OCT-4: A Novel Estrogen Receptor- α Collaborator That Promotes Tamoxifen Resistance in Breast Cancer Cells. *Oncogene*

- 2016, Apr 11. doi: 10.1038/onc.2016.105. [Epub ahead of print]. PMID: [27065334](#)
PMCID: [PMC4821807](#)
325. Madak-Erdogan Z, Kim SH, Gong P, Zhao YC, Zhang H, Chambliss KL, Carlson KE, Mayne CG, Shaul PW, Korach KS, Katzenellenbogen JA, Katzenellenbogen BS. Design of Pathway Preferential Estrogens Affording Beneficial Metabolic and Vascular Actions without Reproductive Tissue Stimulation. *Science Signaling* 9(429):ra53 2016. PMID: [27221711](#)
PMCID: [PMC4896643](#)
326. Katzenellenbogen BS, Katzenellenbogen JA, Madak-Erdogan Z, VanHook AM. Science Signaling podcast for 24 May 2016: Designer estrogens. *Sci Signal*. 2016 May 24;9(429):pc12. doi: 10.1126/scisignal.aag1040. PMID: [27221709](#)
327. Gong P, Madak-Erdogan Z, Flaws JA, Shapiro DJ, Katzenellenbogen JA, and Katzenellenbogen BS. Estrogen Receptor- α and Aryl Hydrocarbon Receptor Involvement in the Actions of Botanical Estrogens in Target Cells. *Mol Cell Endocrinol*. 437:190-200 2016. PMID: [27543265](#)
328. Chambliss KL, Barrera J, Umetani M, Umetani J, Kim SH, Madak-Erdogan Z, Huang L, Katzenellenbogen BS, Katzenellenbogen JA, Mineo C, and Shaul PW. Non-nuclear Estrogen Receptor Activation Improves Hepatic Steatosis in Female Mice. *Endocrinology* 157(10):3731-3741, 2016. Epub 2016 Aug 23. PMID: [27552247](#)
329. Tryfonidis K, Zardavas D, Katzenellenbogen BS, Piccart M. Endocrine treatment in breast cancer: cure, resistance and beyond. *Cancer Treatment Reviews* 50:68-81 2016. doi: 10.1016/j.ctrv.2016.08.008. [Epub 2016 Sept 7] PMID: [27643748](#)
330. Srinivasan S, Nwachukwu JC, Bruno NE, Dharmarajan V, Goswami D, Kastrati I, Novick S, Nowak J, Cavett V, Zhou HB, Frasor J, Boonmuen N, Zhao Y, Min J, Frasor J, Katzenellenbogen BS, Griffin PR, Katzenellenbogen JA, Nettles KW. Full Antagonism of the Estrogen Receptor without a Prototypical Ligand Side Chain. *Nature Chem Biol*. 2017 Jan;13(1):111-118. doi: 10.1038/nchembio.2236. Epub 2016 Nov 21 PMID: [27870835](#)
331. Nelson AW, Groen AJ, Miller JL, Warren AY, Holmes KA, Tarulli GA, Tilley WD, Katzenellenbogen BS, Hawse JR, Gnanapragasam VJ, Carroll JS. Comprehensive assessment of Estrogen receptor beta antibodies in cancer cell line models and tissue reveals critical limitations in reagent specificity. *Mol Cell Endocrinol*, 2016 Nov 23;440:138-150. doi: 10.1016/j.mce.2016.11.016. [Epub ahead of print] PMID: [27889472](#)
332. Nelson AW, Groen AJ, Miller JL, Warren AY, Holmes KA, Tarulli GA, Tilley WD, Katzenellenbogen BS, Hawse JR, Gnanapragasam VJ, Carroll JS. Corrigendum to "Comprehensive assessment of estrogen receptor beta antibodies in cancer cell line models and tissue reveals critical limitations in reagent specificity" [*Mol. Cell Endocrinol*. 440 (2016) 138-150]. *Mol Cell Endocrinol*. 2017 Mar 5;443:175. doi: 10.1016/j.mce.2017.01.048. No abstract available. PMID: [28183459](#)
333. Christenson JL, Butterfield KT, Spoelstra NS, Norris JD, Josan JS, Pollock JA, McDonnell DP, Katzenellenbogen BS, Katzenellenbogen JA, Richer JK. MMTV-PyMT and Derived Met-1 Mouse Mammary Tumor Cells as Models for Studying the Role of the Androgen Receptor in Triple-Negative Breast Cancer Progression. *Horm Cancer*. 2017 Apr;8(2):69-77. doi: 10.1007/s12672-017-0285-6. Epub 2017 Feb 13 PMID: [28194662](#)

334. Martin A, Yu J, Xiong J, Khalid A, Katzenellenbogen B, Kim SH, Katzenellenbogen JA, Gabet Y, Krum SA and Frenkel B. Estrogens and Androgens Inhibit Association of RANKL with the Pre-osteoblast Membrane through Post-translational Mechanisms. *J Cell Physiol*. 2017 Feb 18. doi: 10.1002/jcp.25862. [Epub ahead of print] **PMID:28213978**
335. Menazza S, Appachi S, Sun J, Kim SH, Katzenellenbogen J, Katzenellenbogen B, Shaul P, Murphy E. Non-nuclear estrogen receptor activation in endothelium reduces cardiac ischemic-reperfusion injury in mice. *J Mol Cell Cardiol*, 2017 Apr 27;107:41-51. doi: 10.1016/j.yjmcc.2017.04.004. [Epub ahead of print]. **PMID: 28457941**
336. Arnal JF, Lenfant F, Metivier R, Flouriot G, Henrion D, Adlanmerini M, Fontaine C, Gourdy P, Chambon P, Katzenellenbogen B, Katzenellenbogen J. Membrane and Nuclear Estrogen Receptor Alpha Actions: From Tissue Specificity to Medical Implications. *Physiological Reviews*, 2017. Jul 1;97(3):1045-1087. doi: 10.1152/physrev.00024.2016. **PMID:28539435**
337. Lu W and Katzenellenbogen BS. Estrogen Receptor- β Modulation of the ER α -p53 Loop in Regulating Gene Expression, Proliferation, and Apoptosis in Breast Cancer. *Hormones and Cancer*, 2017, 8(4), 230-242. DOI: 10.1007/s12672-017-0298-1. **PMID:28577282**
338. Min J, Guillen VS, Sharma A, Zhao Y, Ziegler Y, Gong P, Mayne CG, Srinivasan S, Kim SH, Carlson KE, Nettles KW, Katzenellenbogen BS, Katzenellenbogen JA. Adamantyl Antiestrogens with Novel Side Chains Reveal a Spectrum of Activities in Suppressing Estrogen Receptor (ER)-Mediated Activities in Breast Cancer Cells. *J Med Chem*. 2017 60:6321-36 Jun 14. doi: 10.1021/acs.jmedchem.7b00585. [Epub ahead of print] **PMID: 28657320**
339. Zhao Y, Laws MJ, Guillen VS, Ziegler Y, Min J, Sharma A, Kim SH, Chu D, Park BH, Oesterreich S, Mao C, Shapiro DJ, Nettles KW, Katzenellenbogen JA, and Katzenellenbogen BS. Structurally novel antiestrogens elicit differential responses from constitutively active mutant estrogen receptors in breast cancer cells and tumors. *Cancer Research*, May 2017. In Press.

Articles in Books:

1. Katzenellenbogen, B. S., and Gorski, J. Methods for assessing estrogen effects on new protein synthesis in vitro. In: *Methods in Enzymology*, Vol. 36, Part A, Hormones and Cyclic Nucleotides. B. W. O'Malley and J. G. Hardman (Eds.), Academic Press, pp. 444-445, 1975.
2. Katzenellenbogen, B. S., and Gorski, J. Estrogen actions on syntheses of macromolecules in target cells. In: *Biochemical Action of Hormones*, Vol. III, G. Litwack (Ed.), Academic Press, pp. 187-243, 1975.
3. Gannon, F., Katzenellenbogen, B. S., Stancel, G., and Gorski, J. Estrogen receptor movement to the nucleus: Discussion of a cytoplasmic exclusion hypothesis. In: *The Molecular Biology of Hormone Action*, J. Papaconstantinou (Ed.), Academic Press, pp. 137-149, 1976.
4. Baulieu, E., Baxter, J., Clark, J., deCrombrugge, D., Jorgenson, E., Katzenellenbogen, B., Katzenellenbogen, J., Luebke, K., Moran, J., Rochefort, H., Sherman, M., and Topert, M. "Intracellular Receptors" In: *Hormone and Antihormone Action at the Target Cell*. Clark, J., Klee, W., Levitzski, A., and Wolff, J. (Eds.). *Proceedings of the Dahlem Workshop, Berlin, Dahlem Konferenzen*, pp. 147-169, 1976.
5. Katzenellenbogen, B. S. Cellular actions of estrogens and oral contraceptive sex steroid hormones. In: *Contraceptive hormones and human welfare*, M. Diamond and C. Korenbrot (Eds.), Academic Press, pp. 45-55, 1978.
6. Katzenellenbogen, B. S. Regulation of uterine responsiveness to estrogen: Developmental and multihormonal factors. In: *Ontogeny of receptors and reproductive hormone action*. T. Hamilton, J. H. Clark, and W. A. Sadler (Eds.), pp. 79-102, 1979.
7. Katzenellenbogen, B. S. Basic mechanisms of antiestrogen action. In: *Hormones, receptors, and breast cancer*, W. L. McGuire (Ed.), Raven Press, pp. 75-91, 1978.
8. Katzenellenbogen, B. S. Estrogen and antiestrogen action: Studies in reproductive target tissues and tumors. In: *Steroid Hormone Receptor Systems*, W. Leavitt and J. H. Clark (Eds.), Plenum Press, pp. 111-132, 1979.
9. Katzenellenbogen, B. S., Katzenellenbogen, J. A., Eckert, R. L., Hayes, J. R., Robertson, D. W., Tatee, T., and Tsai, T. L. Antiestrogen action in estrogen target tissues: Receptor interactions and antiestrogen metabolism. In: *Hormones and Cancer, Progress in Cancer Research and Therapy*, Vol. 14, S. Iacobelli, R.J.B. King, H. Lindner and M. Lippman (Eds.), Raven Press, pp. 309-320, 1980.
10. Katzenellenbogen, B. S., Bhakoo, H. S., Hayes, J. R., and Schmidt, W. N. Uterine estrogen-induced protein: An index of uterine sensitivity to hormones. In: *Steroid Induced Uterine Proteins*, M. Beato (Ed.), Elsevier North Holland, pp. 267-281, 1980.
11. Katzenellenbogen, J. A., Katzenellenbogen, B. S., Tatee, T., Robertson, D. W., and Landvetter, S. W. The chemistry of estrogens and antiestrogens: Relationships between structure, receptor binding, and biological activity. In: *Estrogens in the Environment*, J. McLachlin (Ed.), Elsevier-North Holland, pp. 33-51, 1980.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 52 – Articles in Books

12. Katzenellenbogen, B. S., Pavlik, E. J., Lan, N. C., and Eckert, R. L. Characterization of estrogen receptors and biological responses to estrogen in human endometrium. In: *The Endometrium, Eighth Brook Lodge Conference on Problems in Reproductive Physiology*, F. Kimball (Ed.), Spectrum Publishers, pp. 107-126, 1980.
13. Katzenellenbogen, B. S., Tsai, T.L.S., and Rorke, E. A. Antiestrogen action in ovarian-dependent and ovarian-autonomous experimental mammary tumors. In: *The Non-Steroidal Antiestrogens*, R. L. Sutherland and V. C. Jordan (Eds.), Academic Press, pp. 303-316, 1981.
14. Katzenellenbogen, B. S., Katzenellenbogen, J. A., Ferguson, E. R., Hayes, J. R., Lan, N. C., Robertson, D. W., and Tatee, T. Antiestrogen action in uterus: Receptor interactions and antiestrogen metabolism. In: *The Non-Steroidal Antiestrogens*, R. L. Sutherland and V. C. Jordan (Eds.), Academic Press, pp. 95-112, 1981.
15. Katzenellenbogen, B. S., and Rorke, E. A. Antiestrogens: Mode of action and effects on mammary tumor growth. In: *Hormonal Regulation of Mammary Tumors*, B. S. Leung (Ed.), Pergamon Press, vol. 1, pp. 94-117, 1983.
16. Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Affinity labeling of steroid hormone and thyroid hormone receptors. In: *Vitamins and Hormones*, vol. 41, G. Aurbach (Ed.), Academic Press, pp. 213-274, 1984.
17. Katzenellenbogen, B. S., Miller, M. A., Mullick, A., and Sheen, Y. Y. Antiestrogen binding proteins. *Proceedings, VII International Congress of Endocrinology, "Endocrinology"*, International Congress Series 655, F. Labrie and L. Proulx (Eds.), Excerpta Medica-Elsevier, New York, pp. 537-540, 1984.
18. Mangel, W. F., and Katzenellenbogen, B. S. Effects of estrogens and antiestrogens on plasminogen activator activity in human breast cancer cells. In: *Progress in Fibrinolysis*, Vol. VII, J. F. Davidson (Ed.), pp. 265-268, 1985.
19. Katzenellenbogen, B. S. Estrogens and carcinogenicity: An overview of information from studies in experimental animal systems. *Proceedings of FDA/NIH/WHO Workshop on Animal Testing Guidelines for New Generation Steroidal Contraceptives*. In: *Contraceptive Steroids: Pharmacology and Safety*, T. Gregoire and R. T. Blye (Eds.), Plenum Press, New York, pp. 247-264, 1986.
20. Miller, M. A., Sheen, Y. Y., Mullick, A., and Katzenellenbogen, B. S. Antiestrogen binding to estrogen receptors and additional antiestrogen binding sites in human breast cancer cells. In: V. C. Jordan (Ed.), *Estrogen/Antiestrogen Action and Breast Cancer Therapy*, Univ. of Wisconsin Press, pp. 127-148, 1986.
21. Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Affinity labeling of estrogen receptors. In: H. Gronemeyer (Ed.), *Affinity Labeling and Cloning of Steroid and Thyroid Hormone Receptors*. Ellis Horwood Ltd., Chichester, England, VCH Publishers, Chapters 1 and 7, pp. 18-27 and pp. 88-108, 1988.
22. Katzenellenbogen, B. S., Sheen, Y. Y., Snider, C. E., and Berthois, Y. Estrogen and antiestrogen regulation of proliferation and protein synthesis of human breast cancer cells. In: V. Moudgil (Ed.), *Steroid Receptors in Health and Disease*, Serono Symposia, Plenum Press,

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 53 – Articles in Books

New York,
pp. 209-220, 1988.

23. Katzenellenbogen, B. S., Read, L. D., Nardulli, A. M., and Snider, C. E. Estrogen and progesterone receptor dynamics and actions in human breast cancer cells. *Excerpta Medica International Congress Series 799, Proceedings, 8th International Congress of Endocrinology*, Elsevier Publishers, Amsterdam, pp. 105-110, 1988.
24. Katzenellenbogen, B. S. A tribute to Jack Gorski: Estrogen receptor model builder and scientific friend to many. In: J. L. Stevens and G. Sato (Eds.), *Molecular Endocrinology and Steroid Hormone Action*, Alan R. Liss Publishers, New York, pp. 1-16, 1990.
25. Katzenellenbogen, B. S., Nardulli, A. M., and Read, L. D. Estrogen regulation of proliferation and hormonal modulation of estrogen and progesterone receptor biosynthesis and degradation in target cells. In: J. L. Stevens and G. Sato (Eds.), *Molecular Endocrinology and Steroid Hormone Action*, Alan R. Liss Publishers, New York, pp. 201-211, 1990.
26. Read, L. D. and Katzenellenbogen, B. S. Characterization and regulation of estrogen and progesterone receptors in breast cancer. In: R. B. Dickson and M. E. Lippman (Eds.), *Genes, Oncogenes, and Hormones: Advances in Cellular and Molecular Biology of Breast Cancer*. Kluwer Academic Publishers, Boston, pp. 277-299, 1991.
27. Reese, J. C. and Katzenellenbogen, B. S. Ligand requirements for estrogen receptor function and the actions of antiestrogens. In: V. K. Moudgil (Ed.), *Steroid Hormone Receptors: Basic and Clinical Aspects*, Birkhäuser, Boston, pp.377-404, 1993.
28. Katzenellenbogen, B.S., Montano, M. M., Kraus, W. L., Aronica, S. M., Fujimoto, N., and LeGoff, P. Estrogen-receptor and antiestrogen-receptor complexes: cell and promoter specific effects and interactions with second messenger signaling pathways. In: Baird et al. (Eds.), *Ernst Schering Foundation Workshop 16, Organ-Selective Actions of Steroid Hormones*, Springer-Verlag Publishers, Heidelberg, Germany, pp. 29-50, 1995.
29. Katzenellenbogen, B. S. Co-editor of book: Pasqualini, J. R. and B. S. Katzenellenbogen (Eds.), *Hormone-Dependent Cancer*, Marcel Dekker Publishers, New York, 579 pages, 1996.

Abstracts:

1. Katzenellenbogen, B. S., and Gorski, J. In vitro induction of the synthesis of a specific uterine protein (IP) by physiological (10 M) concentrations of estradiol-17 β (E2). Fed. Proc. 30:1214A, 1971.
2. Katzenellenbogen, B. S., and Greger, N. G. Synthesis and inducibility of the estrogen-induced protein (IP) in developing and mature cycling rats: Clues to uterine estrogen sensitivity. Fourth International Congress of Hormonal Steroids. J. Steroid Biochem. 5, Abstract 186, p. 340, 1974.
3. Katzenellenbogen, B. S. Mechanisms of antiestrogen action in the uterus. Proceedings 56th Annual Endocrine Society Meeting. Abstract 399, A-255, 1974.
4. Katzenellenbogen, B. S., and Ferguson, E. R. Antiestrogen action in the uterus: Biological ineffectiveness of nuclear bound estradiol after antiestrogen. Proceedings 57th Annual Endocrine Society Meeting. Abstract 34, A-67, 1975.
5. Ferguson, E. R., Lan, N. C., and Katzenellenbogen, B. S. A comparative study of antiestrogen action: Temporal patterns of antagonism of estrogen stimulated uterine growth and receptor synthesis. Proceedings 58th Annual Endocrine Society Meeting, Abstract 83, p. 98, 1976.
6. Katzenellenbogen, B. S., Tsai, T. L., and Sadler, M. A. Antiestrogens: Antagonism of development and growth of DMBA-induced rat mammary tumors and concomitant effects on estrogen and progesterone receptors. V International Congress of Endocrinology, Hamburg, Abstract 339, p. 139, 1976.
7. Pavlik, E. J., and Katzenellenbogen, B. S. In vitro responses to estrogens by human endometrial cells in primary tissue culture. Proceedings 59th Annual Endocrine Society Meeting, Abstract 407, p. 260, 1977.
8. Katzenellenbogen, B. S., Katzenellenbogen, J A., and Ferguson, E. R. Interaction of a radiolabeled antiestrogen (3H-CI628) with uterine tissue and molecular mechanism of its action. Proceedings 59th Annual Endocrine Society Meeting, Abstract 196, p. 154, 1977.
9. Katzenellenbogen, B. S., Tsai, T. L., Rorke, E., and Rutledge, S. Antiestrogen modulation of the growth and biochemistry of the ovarian-autonomous R3230AC rat mammary tumor. Proceedings 61st Annual Endocrine Society Meeting. Abstract 296, p. 146, 1979.
10. Pavlik, E. J., and Katzenellenbogen, B. S. Localization of estrogen receptors in uterine cells: An appraisal of translocation. Proceedings 61st Annual Endocrine Society Meeting, Abstract 774, p. 266, 1979.
11. Eckert, R. L., and Katzenellenbogen, B. S. Human endometrial cells in primary tissue culture: Modulation of progesterone receptor levels by estrogens in vitro. Proceedings, Annual Meeting, Society for the Study of Reproduction, Biol. of Reproduction 22:Suppl. 1, Abstract 160, p. 100A, 1980.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 55 – Abstracts

12. Rorke, E. A., and Katzenellenbogen, B. S. Effects of estrogens and antiestrogens on enzyme activities in R3230AC rat mammary tumors and uteri of tumor bearing animals. Proceedings 62nd Annual Endocrine Society Meeting. Abstract 325, p. 156, 1980.
13. Hayes, J. R., Rorke, E. A., Robertson, D. W., Katzenellenbogen, B. S., and Katzenellenbogen, J. A. Biological potency of the metabolites of the antiestrogens CI628 and U23,469. Proceedings 62nd Annual Endocrine Society Meeting. Abstract 830, p. 282, 1980.
14. Eckert, R. L., and Katzenellenbogen, B. S. The effects of estrogens and antiestrogens on estrogen receptor dynamics and induction of progesterone receptor in MCF-7 human breast cancer cells. Proceedings Annual American Society for Cell Biology Meeting. J. Cell Biol. 87: Abstract H1215, p. 157A, 1980.
15. Eckert, R. L., and Katzenellenbogen, B. S. Interaction of a tritium-labeled high affinity antiestrogen (α [4-pyrrolidinoethoxy]phenyl-4-hydroxy- α' -nitrostilbene, CI628M) with the MCF-7 human breast cancer estrogen receptor. Proceedings 63rd Annual Endocrine Society Meeting. Abstract 170, p. 125, 1981.
16. Katzenellenbogen, B. S., Wei, L. L., Robertson, D. W., Hayes, J. R., Carlson, K. E., and Katzenellenbogen, J. A. Interaction of tamoxifen aziridine analogs with estrogen receptors: Potential cytotoxic antiestrogens. Proceedings 63rd Annual Endocrine Society Meeting. Abstract 337, p. 167, 1981.
17. Sudo, K., Miller, M.A., Monsma, F.J., Jr., and Katzenellenbogen, B.S. Antiestrogen-specific binding sites: Subcellular localization, distribution, and ligand specificity in rat tissues and human breast cancer cells. Proceedings 64th Annual Endocrine Society Meeting. Abstract 57, p. 94, 1982.
18. Eckert, R.L., Rorke, E.A., and Katzenellenbogen, B.S. Determination of the rates of synthesis and turnover of the estrogen receptor in MCF-7 breast cancer cells using a density shift technique. Proceedings 64th Annual Endocrine Society Meeting. Abstract 29, p. 87, 1982.
19. Katzenellenbogen, B. S., Wei, L. L., Robertson, D. W., and Katzenellenbogen, J. A. Selective cytotoxicity mediated by the estrogen receptor. UCLA Symposium. J. Cell Biol. 6: Abstract 134, 1982.
20. Miller, M. A., and Katzenellenbogen, B. S. Analysis of antiestrogen binding sites in estrogen receptor positive and negative human breast cancer cell lines. Proceedings, International Association for Breast Cancer Research, Denver, March 1983.
21. Katzenellenbogen, B. S., Monsma, F. J. Jr., Miller, M. A., Norman, M. J. and Katzenellenbogen, J. A. Characterization of the estrogen receptor and its dynamics in MCF-7 breast cancer cells using a covalently-attaching antiestrogen. Proceedings 65th Annual Endocrine Society Meeting. Abstract 405, p. 182, 1983.
22. Miller, M. A., and Katzenellenbogen, B. S. Antiestrogen binding in antiestrogen resistant variants of MCF-7 human breast cancer cells. Proceedings 65th Annual Endocrine Society Meeting. Abstract 159, p. 120 1983.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 56 – Abstracts

23. Katzenellenbogen, B. S., Wei, L. L., Monsma, F. J. Jr., Miller, M. A., Carlson, K. E., and Katzenellenbogen, J. A. Analysis of the estrogen receptor in uterus and breast cancer cells using a covalent labeling antiestrogen. Proceedings, VI International Symposium of the Journal of Steroid Biochemistry, Paris, June 1983.
24. Reiner, G. C. A., and Katzenellenbogen, B. S. A potential estradiol-based affinity label for studying estrogen receptors in human breast cancer. Proceedings Sixth Annual San Antonio Breast Cancer Symposium, November 1983. Breast Cancer Research and Treatment 3..304, 1983.
25. Reiner, G. C. A., Nardulli, A., Norman, M. J., Mangel, W. F., and Katzenellenbogen, B. S. Relationships between cell proliferation, plasminogen activator activity and progesterone receptor stimulation evaluated with a series of estrogens in MCF-7 breast cancer cells. Proceedings 75th Annual Meeting, American Association for Cancer Research, Toronto, Canada, May, 1984, Abstract 806, p. 204, 1984.
26. Miller, M. A., Mullick, A., and Katzenellenbogen, B. S. Crosslinking and density. shift experiments to study the subunit nature of the 5 S nuclear estrogen receptor complex in MCF-7 breast cancer cells. Proceedings, VII International Congress of Endocrinology, Quebec, Abstract 1599, p. 1060, July, 1984.
27. Miller, M. A., Mullick, A., and Katzenellenbogen, B. S. Characterization of salt extracted nuclear estrogen and antiestrogen receptor complexes. Proceedings, International Conference on Estrogens and Antiestrogens: Basic and Clinical Aspects, Madison, Wisconsin, June, 1984. J. Steroid Biochem. 20 (6B):1634 (Abstract K17), 1984.
28. Katzenellenbogen, B. S., Norman, J. J., Eckert, R. L., Peltz, S. W., and Mangel, W. F. Bioactivities, estrogen receptor interactions, and plasminogen activator inducing activities of tamoxifen and hydroxytamoxifen isomers in MCF-7 human breast cancer cells. Proceedings 7th International Congress on Fibrinolysis, Venice, Italy, March 1984. Haemostasis 14:93, 1984.
29. Reiner, G. C. A., and Katzenellenbogen, B. S. Dissociated regulation of growth and progesterone receptor stimulation by estrogen in MDA-MB-134 human breast cancer cells. Proceedings 76th Annual Meeting, American Association for Cancer Research, Abstract 750, p. 190, 1985.
30. Mullick, A., Nardulli, A., and Katzenellenbogen, B. S. Comparative aspects of the synthesis and turnover of estrogen receptors and progestin receptors in MCF-7 breast cancer cells and of estrogen receptors in rat uterine cells in vitro and in vivo. Proceedings, 67th Annual Endocrine Society Meeting. Abstract 2, p. 1, 1985.
31. Kendra, K., and Katzenellenbogen, B. S. An evaluation of the involvement of polyamines in modulating MCF-7 breast cancer cell proliferation and progesterone receptor levels by estrogen and antiestrogen. Fed. Proc. 45 (#3): Abstract 1649, p. 438, 1986.
32. Toney, T. W., and Katzenellenbogen, B. S. Antiestrogen action in the medial basal hypothalamus and pituitary of immature female rats: effects on dopamine turnover and prolactin levels. Fed Proc. 45: Abstract 728, p. 279, 1986.

33. Mullick, A., and Katzenellenbogen, B. S. Kinetic analysis of dense amino acid incorporation suggests a non-hormone binding precursor in progesterone receptor biosynthesis. Proceedings, 68th Annual Endocrine Society Meeting, Abstract 995, p. 279, 1986.
34. Katzenellenbogen, B. S., Elliston, J., Monsma, F. Jr., and Greene, G. L. Structural analysis of covalently labeled MCF-7 human breast cancer and rat uterine estrogen receptors by limited proteolysis and monoclonal antibody reactivity. Proceedings, 68th Annual Endocrine Society Meeting, Abstract 259, p. 95, 1986.
35. Katzenellenbogen, B. S., Miller, M. A., and Sheen Y. Y. Antiestrogen interaction with receptors and effects on breast cancer cell growth. *Anticancer Research* 6: p. 345, 1986.
36. Katzenellenbogen, B. S., Berthois, Y., Sheen, Y. Y., Kendra, K., and Katzenellenbogen, J. A. Phenol red in tissue culture media is a weak estrogen: implications concerning the study of proliferation and protein synthesis of estrogen-responsive cells in culture. *Anticancer Research*, 6: p. 396, 1986.
37. Katzenellenbogen, B. S., Kendra, K. L., and Berthois, Y. B. Proliferation of estrogen-responsive MCF-7 human breast cancer cells grown in the short-term and long-term absence of estrogens. *J. Cellular Biochem. Suppl.* 11A, Abstract B184, p. 131, 1987.
38. Katzenellenbogen, B. S., Nardulli, A. M., and Read, L. D. Estrogen and progesterone receptor dynamics and actions in breast cancer cells. Proceedings, 8th International Symposium of the Journal of Steroid Biochemistry, Paris, France, May 1987, Presentation 14, p. 14.
39. Nardulli, A. M., Read, L. D., Snider, C. E., and Katzenellenbogen, B. S. Progesterone receptor regulation at the protein and mRNA level by estrogen, progestin and antiprogestin in human breast cancer cell lines. Proceedings 69th Annual Endocrine Society Meeting, Indianapolis, Indiana, *Endocrinology*, 120 (Supplement): Abstract 199, p. 71, 1987.
40. Elliston, J. F., Zablocki, J. A., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Ketononestrol aziridine, and efficient and selective agonistic estrogen receptor affinity label. Proceedings 69th Annual Endocrine Society Meeting, Indianapolis, Indiana, *Endocrinology* 120 (Supplement): Abstract 232, p. 79, 1987.
41. Read, L. D., Snider, C. E., Miller, J. S., and Katzenellenbogen, B. S. Ligand-induced regulation of progesterone receptor and estrogen receptor at the mRNA and protein levels in human breast cancer cell lines. Proceedings, Meadow Brook Conference on Steroid Receptors in Health and Disease, Abstract 21, p. 37, 1987.
42. Katzenellenbogen, B. S., Read, L. D., Snider, C. E., and Nardulli, A. M. Estrogen, antiestrogen and progestin action in breast cancer cells. Proceedings, Meadow Brook Conference on Steroid Receptors in Health and Disease, Symposium lecture abstract, p. 17, 1987.
43. Katzenellenbogen, B. S. Estrogen and progesterone receptor dynamics and actions in target cells. Proceedings, AAAS Symposium lecture, *Frontiers in Reproductive Biology*, Boston, February, 1988.

44. Read, L. D., and Katzenellenbogen, B. S. Regulation of estrogen receptor mRNA and protein levels in human breast cancer cell lines by sex steroid hormones, their antagonists and growth factors. *Endocrinology*, 122 (Supplement): Abstract 433, p. 129, 1988.
45. Katzenellenbogen, B. S. Estrogen, antiestrogen and progestin regulation of growth and protein synthesis of human breast cancer cells. *Proceedings, Amer. Assoc. for Cancer Research*, Vol. 30, Extended Abstract, pp. 657-658, 1989.
46. Read, L. D., Keith, D. Slamon, D. J. and Katzenellenbogen, B. S. Hormonal modulation of HER-2/neu oncogene expression in human breast cancer cell lines. *Proceedings, Amer. Assoc. for Cancer Research*, vol. 30, Abstract 1812, p. 456, 1989.
47. Clarke, R., Brunner, N., Katzenellenbogen, B. S., Thompson, E. W., Glanz, P., Katz, D., Dickson, R. B., and Lippman, M. E. Relationships among antiestrogen resistance, ovarian-independent growth and invasiveness in human breast cancer. *Proceedings, Amer. Assoc. for Cancer Research*, vol. 30, Abstract 206, p. 53, 1989.
48. Harlow, K. W., Katzenellenbogen, B. S., Greene, G. L., Smith, D. N. and Katzenellenbogen, J. A. Identification of cysteine-530 as the covalent attachment site of tamoxifen aziridine in the MCF-7 estrogen receptor. *Proceedings, 9th International Symposium of the Journal of Steroid Biochemistry*, Los Palmas, Spain, Abstract 33, May 1989.
49. Katzenellenbogen, B. S. and Norman, M. J. Insulin-like growth factor I/insulin and estrogen regulation of progesterone receptor levels in MCF-7 human breast cancer cells. *Proceedings, 71st Annual meeting of the Endocrine Society*, Seattle, Washington, *Endocrinology* 124 (Supplement): Abstract 564, p. 163, 1989.
50. Harlow, K. W., Katzenellenbogen, B. S., Greene, G. L., Smith, D. N., Katzenellenbogen, J. A. Identification of cysteine-530 as the covalent attachment site of antiestrogen and estrogen in the MCF-7 estrogen receptor. *Third Symposium of the Protein Society*, Seattle, Washington, Abstract T118, July 1989.
51. Wrenn, C. K. and Katzenellenbogen, B. S. Crosslinking of estrogen receptors to DNA in the nuclei of intact MCF-7 human breast cancer cells. *Proceedings, 72nd Annual Meeting of the Endocrine Society*, Atlanta, Georgia, *Endocrinology* 126 (Supplement): Abstract 856, p. 238, 1990.
52. Reese, J. C. and Katzenellenbogen, B. S. Mutagenesis of cysteines in the hormone binding domain of the human estrogen receptor: Effects on hormone binding and transcriptional activation efficiency. *Proceedings, 72nd Annual Meeting of the Endocrine Society*, Atlanta, Georgia, *Endocrinology* 126 (Supplement): Abstract 287, p. 96, 1990.
53. Pakdel, F. and Katzenellenbogen, B. S. Mutant human estrogen receptors with altered sensitivities towards estrogens and antiestrogens. *Proceedings, 73rd Annual Endocrine Society Meeting*, Washington, D. C., *Endocrinology* 128 (Supplement): Abstract 359, p. 120, 1991.
54. Cho, H., NG, P. A., Katzenellenbogen, B. S. Differential regulation of gene expression by estrogen in estrogen growth-independent and -dependent MCF-7 human breast cancer cell sublines. *Proceedings, 73rd Annual Endocrine Society Meeting*, Washington, D. C., *Endocrinology* 128 (Supplement): Abstract 575, p. 174, 1991.

55. Pakdel, F. and Katzenellenbogen, B. S. Human estrogen receptor hormone binding domain mutants with altered estrogen and antiestrogen ligand discrimination. Proceedings, 4th International Congress on Hormones and Cancer, Amsterdam, September 1991.
56. Katzenellenbogen, B. S., Aronica, S. M., Cho, H., Kraus, W. L., LeGoff, P., Pakdel, F., Reese, J. C., Wooge, C. H. and Wrenn, C. K. Estrogen receptor and progesterone receptor regulation: Ligand discrimination and modulation of receptor activity. J. Cell Biochem. (Suppl. 16C), Symposium Abstract L023, p. 9, 1992.
57. Katzenellenbogen, B. S., Aronica, S. M., Cho, H., Herman, M., Kraus, W. L., LeGoff, P., NG, P., Pakdel, F., Reese, J. C., Wooge, C. H. and Wrenn, C. K. Estrogen receptor and progesterone receptor regulation. J. Cell Biochem. (Supplement 16D): Symposium Abstract CC001, p. 86, 1992.
58. Katzenellenbogen, B. S. Multiple pathways in the hormonal regulation of breast cancer cells. Proceedings, 74th Annual Meeting of the Endocrine Society, San Antonio, Texas, Endocrinology 130 (Supplement): Plenary Lecture Abstract, p. 1, 1992.
59. Cho, H. and Katzenellenbogen, B. S. Synergistic activation of estrogen receptor-mediated transcription by estrogen and protein kinase activators. Proceedings, 74th Annual Meeting of the Endocrine Society, San Antonio, Texas, Endocrinology 130 (Supplement), Abstract 263, p. 117, 1992.
60. LeGoff, P., Aronica, S. M. and Katzenellenbogen, B. S. Phosphorylation of wild type and mutant estrogen receptor transiently expressed in COS-1 cells: Enhancement by estrogen, antiestrogen and protein kinase activators. Proceedings, 74th Annual Meeting of the Endocrine Society, San Antonio, Texas, Endocrinology 130 (Supplement): Abstract 716, p. 230, 1992.
61. Pakdel, F. and Katzenellenbogen, B. S. Identification of charged residues in the hormone binding domain (HBD) of human estrogen receptor (hER) implicated in transcriptional activity of the receptor. Ninth International Congress of Endocrinology, Nice, France, Abstract, 1992.
62. Katzenellenbogen, B. S., Aronica, S., Cho, H., Fang, H., LeGoff, P., NG, P., Pakdel, F., Reese, J., Wooge, C. and Wrenn, C. Estrogen receptor and progesterone receptor regulation in breast cancer cells. Ninth International Congress of Endocrinology Satellite Meeting "Hormones and Breast Cancer: From Biology to the Clinic", Nice, France, Symposium Lecture Abstract, August 1992.
63. Ince, B. A., Zhuang, Y., Wrenn, C. K., and Katzenellenbogen, B. S. Powerful dominant negative mutants of the human estrogen receptor. Proceedings, 75th Annual Meeting of the Endocrine Society, Las Vegas, Endocrinology 132 (Supplement): Abstract 953, p. 289, 1993.
64. Kraus, W. L., Montano, M., and Katzenellenbogen, B. S. Transcription of the rat progesterone receptor gene is controlled by two distinct promoters and an estrogen-responsive unit comprised of multiple weak estrogen response elements. Proceedings, 75th Annual Meeting of the Endocrine Society, Las Vegas, Endocrinology 132 (Supplement): Abstract 626, p. 207, 1993.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 60 – Abstracts

65. Herman, M. E. and Katzenellenbogen, B. S. Alterations in estrogen and TGF- β pathways in antiestrogen-resistant MCF7 human breast cancer cells. Proceedings of the American Association for Cancer Research 35: Abstract 1527, p. 256, 1994.
66. Katzenellenbogen, B. S., Montano, M. M., Schodin, D. J., LeGoff, P., Aronica, S. M., and Choe, H. Estrogen receptor interactions with cell signaling pathways. J. Cell. Biochem. (Suppl. 18B): Abstract K018, p. 337, 1994.
67. Katzenellenbogen, B. S. Structure-activity relationships of estrogens and their antagonists: Estrogen receptor interactions and transcriptional regulation. Plenary Talk, First International Conference on Steroids and Bone, Florence, Italy, Calcified Tissue International 54:331, 1994.
68. Katzenellenbogen, B. S. Estrogen and antiestrogen actions in breast cancer: Regulation of proliferation and oncogene expression. Plenary Talk, Ninth Workshop on Vitamin D, Orlando, Florida, Proceedings, p. 171, 1994.
69. Kraus, W. L., Weis, K. E., and Katzenellenbogen, B. S. Repression of estrogen receptor-mediated transcriptional activity by ligand-occupied progesterone receptors. Endocrinology 134 (Suppl.): Abstract 492, p.323, 1994.
70. Montano, M. M., Muller, V., Katzenellenbogen, B. S. Role for the carboxy-terminal F domain of the estrogen receptor in transcriptional activity of the receptor and in the effectiveness of antiestrogens as estrogen antagonists. Endocrinology 134 (Suppl.): Abstract 491, p. 323, 1994.
71. Katzenellenbogen, B. S., Montano, M., Herman, M., Schodin, D., Ince, B. A., Kraus, W. L., and Bhardwaj, B. Antiestrogens: Mechanisms and actions in target cells. Proceedings, IX International Congress on Hormonal Steroids, Dallas, Texas, 1994.
72. Katzenellenbogen, B. S. Estrogen receptor structure-function relationships and bioactivity regulation. Amer. Assoc. for Cancer Res. Special Conference on the Mechanism of Action of Retinoids, Vitamin D and Steroid Hormones. Whistler, British Columbia, January, 1995.
73. Kraus, W. L., McInerney, E.M., and Katzenellenbogen, B. S. Ligand-dependent, transcriptionally productive association of the amino- and carboxy-terminal regions of human estrogen receptor. Endocrinology 136 (Suppl.):Abstract OR 7-1, p. 54, 1995.
74. Schodin, D. J., Zhuang, Y., Shapiro, D. J., and Katzenellenbogen, B. S. Analysis of estrogen receptor properties that determine dominant negative effectiveness of mutant estrogen receptors. Endocrinology 136 (Suppl.):Abstract OR 27-3, p. 81, 1995.
75. Ekena, K., Weis, K., Katzenellenbogen, B. S. Alanine scanning mutagenesis of the human estrogen receptor hormone binding domain reveals amino acids important in ligand binding and discrimination. Keystone Symposium on The Nuclear Hormone Receptor Superfamily, Lake Tahoe, CA J. Cell Biochem (Suppl.) March, 1996
76. Katzenellenbogen, B. S., Ekena, K., Kraus, W. L., McInerney, E., Montano, M., Schodin, D., Weis, K. Estrogen receptor bioactivity regulation and signal transduction crosstalk. Keystone Symposium on The Nuclear Hormone Receptor Superfamily, Lake Tahoe, CA J. Cell Biochem (Suppl.) March, 1996

77. Katzenellenbogen, B. S. Estrogen receptor bioactivities and interactions with signal transduction pathways in breast cancer cells. *Proceedings, Amer. Assoc. for Cancer Research* 37:630, 1996.
78. Katzenellenbogen, B. S. Estrogen receptor mechanisms and actions in target cells. *Endocrinology* 138 (Suppl.): Plenary lecture abstract L1, p.13, 1996.
79. McInerney, E. M., Katzenellenbogen, B.S. Different regions in activation function-1 of the human estrogen receptor required for antiestrogen agonism and estradiol-dependent transcription activation. *Endocrinology* 138 (Suppl.) : Abstract P2-681, p.575, 1996.
80. Katzenellenbogen, B. S., Ekena, K., Lazennec, G., McInerney, E., Montano, M. M., and Katzenellenbogen J. A. Estrogen receptor mechanisms and activity regulation. *EMBO Workshop on Nuclear Receptors, Sicily, Italy, May 1997.*
81. Katzenellenbogen, B. S., Ekena, K., Lazennec, G., McInerney, E., Montano, M. M., and Katzenellenbogen J. A. Tripartite estrogen receptor pharmacology: Regulation of gene expression by estrogens and antiestrogens. *Frontiers in Estrogen Action, Key West, Florida, May, 1997.*
82. Stoica, A., Kenny, N., Johnson, M., Lirio, A., Clarke, R., Chambon, P., Katzenellenbogen, B. S., and Martin, M. B. Activation of the estrogen receptor by the heavy metal cadmium. *Proceedings, Amer. Assoc. for Cancer Research* 38:453 (Abstract 3030), 1997.
83. Montano, M. M., Jaiswal, A. K., and Katzenellenbogen, B. S. Estrogen receptor regulation of the quinone reductase gene: A possible contributor to the beneficial effects of antiestrogens in breast cancer. *79th Annual Meeting of The Endocrine Society, Minneapolis, June, 1997.*
84. Katzenellenbogen, B. S. Estrogen receptors: Mechanisms and actions in breast cancer. *International Union Against Cancer (UICC) Study Group Meeting on Cancer Research, Woods Hole, Massachusetts, June 1997.*
85. Katzenellenbogen, B. S., Montano, M. M., Ekena, K., Lazennec, G., Ediger, T., Choi, I., and Katzenellenbogen, J. A. New dimensions in estrogen receptor pharmacology. *Keystone Symposium on Nuclear Receptor Gene Superfamily, Lake Tahoe, CA, March 1998.*
86. Thomas, J. A., Lazennec, G., and Katzenellenbogen, B. S. CREB-estrogen receptor transcriptional synergy on estrogen regulated genes. *Keystone Symposium on Nuclear Receptor Gene Superfamily, Lake Tahoe, CA, March 1998.*
87. Katzenellenbogen, B. S., Montano, M. M., Ekena, K., Lazennec, G., Ediger, T., McInerney, E., Choi, I., Sun, J., Weis, K., and Katzenellenbogen, J. A. Estrogen receptor pharmacology. *Symposium Abstract S39-1, p.42, 80th Annual Meeting of the Endocrine Society, New Orleans, LA, June 1998.*
88. Choi, I., Hoeksema, J., Gudas, L. J., and Katzenellenbogen, B. S. Transcriptional regulation by estrogen of keratin 19 gene expression, a marker gene for tumor progression in estrogen receptor-positive human breast cancer cells. *Symposium Abstract P1-11, p.125, 80th Annual Meeting of the Endocrine Society, New Orleans, LA, June 1998.*

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BENITA S. KATZENELLENBOGEN

Page 62 – Abstracts

89. Ediger, T. R., Kraus, W. L., Weinman, E. J., and Katzenellenbogen, B. S. Rapid estrogen receptor regulation of the 50kDa PDZ domain-containing protein EBP50/NHE-RF in human breast cancer cells: Potential involvement in early estrogen effects on signal transduction and cell cytoarchitecture. Symposium Abstract OR48-6, p.115, 80th Annual Meeting of the Endocrine Society, New Orleans, LA, June 1998.
90. Montano, M. M., Chang, W., and Katzenellenbogen, B. S. An estrogen receptor-selective corepressor: Cloning and characterization. Symposium Abstract OR34-2, p.96, 80th Annual Meeting of the Endocrine Society, New Orleans, LA, June 1998.
91. Chusacultanachai, S., Rodriguez, A. O., Glenn, K. A., Gardner, J. F., Katzenellenbogen, B. S., Shapiro, D. J. Genetic selection of steroid hormone receptor DNA binding domains with altered specificity and enhanced affinity for the estrogen response element. Symposium Abstract P1-579, p.238, 80th Annual Meeting of the Endocrine Society, New Orleans, LA, June 1998.
92. Martini, P. and Katzenellenbogen, B. S. Expedited development of more tissue-selective antiestrogens for breast cancer treatment and prevention. Reeves Breast Cancer Symposium, Southwestern Medical School, Dallas, TX, October 1998.
93. de Haan, G., Chusacultanachai, S., Katzenellenbogen, B. S., Shapiro, D. J. Estrogen receptor-KRAB chimeras are potent repressors of estrogen regulated gene expression. Abstract R-7, Co-Activators/Co-Repressors in Gene Expression, NIH NIDDK Workshop, Bethesda, MD, December 1998.
94. Katzenellenbogen, B. S., Ediger, T., Ekena, K., Sun, J., Choi, I., Weis, K., Martini, P., Montano, M., Delage-Mourroux. Molecular mechanisms of estrogen and antiestrogen actions via estrogen receptors alpha and beta. Keystone Symposium on Molecular Pathogenesis of Bone Disease, Lake Tahoe, CA, March 1999.
95. Katzenellenbogen, B. S., Ediger, T. R., Choi, I., Sun, J., Montano, M. M., Martini, P., Delage-Mourroux, R., Rajendran, R. Transcriptional regulation by estrogen receptors and insights into the actions of antiestrogens. Proceedings, Amer. Assoc. for Cancer Research 40:752-753. Symposium 6 Invited Talk: Transcriptional Regulation and Cancer, April 1999.
96. Katzenellenbogen, B. S., Ediger, T., Sun, J., Choi, I., Weis, K., Martini, P., Delage-Mourroux, R., and Katzenellenbogen, J. A. Molecular mechanisms of estrogen action: receptors, partners and cell biology. Frontiers in Estrogen Action, Los Angeles, CA, April 1999.
97. Martini, P., Ekena, K., Delage-Mourroux, R., Montano, M., Harrington, W., Katzenellenbogen, B. S. A repressor of estrogen receptor activity (REA) functions as an anticoactivator. Symposium Abstract OR1-2, p. 63, 81st Annual Meeting of the Endocrine Society, San Diego, CA, June 1999.
98. Sun, J., Meyers, M. J., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Selective antagonists for estrogen receptor-beta: steric factors regulate agonist versus antagonist activity. Symposium Abstract P1-236, p. 185, 81st Annual Meeting of the Endocrine Society, San Diego, CA, June 1999.
99. De Haan, G., Chusacultanachai, S., Katzenellenbogen, B. S., and Shapiro, D. J. Characterization of potent repressors of estrogen regulated gene expression formed by estrogen receptor-KRAB

- fusions. Symposium Abstract P1-279, p. 193, 81st Annual Meeting of the Endocrine Society, San Diego, CA, June 1999.
100. Katzenellenbogen, B. S., Choi, I., Delage-Mourroux, R., Ediger, T., Martini, P., Montano, M. M., Sun, J., Weis, K., and Katzenellenbogen, J. A. Molecular mechanisms of estrogen action: selective ligands and receptor pharmacology. Nobel Symposium on Estrogens and Women's Health – Benefit or Threat?, Karlskoga, Sweden, July 1999.
 101. Martini, P. and Katzenellenbogen, B. S. Development of tissue-selective antiestrogens and identification of coregulators that enhance the effectiveness of antiestrogens. Susan G. Komen Breast Cancer Foundation Symposium, Dallas, TX, October 1999.
 102. Katzenellenbogen, B. S., Martini, P. G. V., Rajendran, R. R., Delage-Mourroux, R., Sun, J., Choi, I., Kraichely, D. M., and Katzenellenbogen, J. A. Estrogen receptors alpha and beta: selective ligands and coregulator modulation of receptor activity. Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000.
 103. Delage-Mourroux, R., Martini, P. G. V., Kraichely, D. M., Hoeksema, J. and Katzenellenbogen, B. S. Analysis of estrogen receptor interaction with a repressor of estrogen receptor activity (REA) and the regulation of estrogen receptor transcriptional activity by REA. Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000.
 104. Martini, P. G. V., Kraichely, D. M., and Katzenellenbogen, B. S. Prothymosin-alpha selectively enhances transcription activation of the estrogen receptor: involvement of the coregulator REA. Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000.
 105. Katzenellenbogen, J. A. Thomas, J. A., Tedesco, R. and Katzenellenbogen, B. S. Redefining hormone specificity by coordinated alterations of estrogens and the estrogen receptor at key contact sites. Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000.
 106. Sun, J., Kraichely, D. M., Meyers, M. J., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Novel selective estrogen receptor-beta antagonists block transcriptional activation and abolish coactivator recruitment. Keystone Symposium, Nuclear Receptors 2000, Steamboat Springs, CO, March 2000.
 107. Wang, C., Fu, M., Angeletti, R. H., Siconolfi-Baez, A., Katzenellenbogen, B. S., Orgryzko, V., and Pestell, R. Acetylation regulates estrogen receptor α transactivation. Proceedings, Amer. Assoc. for Cancer Research 41:373 (Abstract 2371), March 2000.
 108. Katzenellenbogen, B. S. Structure-function relationships in estrogen receptors. NIH Workshop on SERMs, April 2000.
 109. d'Oliveira, C., van der Zee, A., Frants, R. R., Havekes, L. M., Katzenellenbogen, B. S., and van Dijk, K. W. Liver-specific overexpression of a constitutive active estrogen receptor alpha (ER α)-variant induces hypo lipidemia in male APOE3-leiden mice. International Symposium on Atherosclerosis, Stockholm, Sweden, June 2000.
 110. Thomas, J. A., Tedesco, R., Katzenellenbogen, J. A., and Katzenellenbogen, B. S. Reengineering the specificity of hormone receptor recognition through coordinated changes at

- key contact sites in estrogen ligands and the estrogen receptor. Symposium Abstract 1407, p. 340, 82nd Annual Meeting of the Endocrine Society, Toronto, Canada, June 2000.
111. Choi, I., Ko, C., Park-Sarge, O.-K., Zhou, Q., Hess, R., Graves, C., Katzenellenbogen, B. S. Human estrogen receptor beta-specific monoclonal antibodies: Characterization and use in studies of estrogen receptor beta protein expression in reproductive tissues. 82nd Annual Meeting of the Endocrine Society, Toronto, Canada, June 2000, Abstract 1495, p. 360.
 112. Ediger, T. R., Park, S.-E., Katzenellenbogen, B. S. Genomic structure and analysis of the estrogen inducibility of the Na⁺/H⁺ exchanger regulatory factor (NHE-RF) gene. Abstract 473, p. 120, 82nd Annual Meeting of the Endocrine Society, Toronto, Canada, June 2000.
 113. Katzenellenbogen, B. S. Mechanisms and actions of estrogen receptor alpha and beta. Symposium Abstract, Eleventh International Congress of Endocrinology, Sydney, Australia, November 2000.
 114. Katzenellenbogen, J. A., Thomas, J. A., Tedesco, R., Katzenellenbogen, B. S. Redesigning hormone specificity of the estrogen receptor by reciprocal exchange of ligand-receptor contact functional groups. Abstract, Eleventh International Congress of Endocrinology, Sydney, Australia, November 2000.
 115. Martini, P. G. V., Delage-Mourroux, R., Kraichely, D. M., Katzenellenbogen, B. S. Mechanisms of selective regulation of estrogen receptor activity by REA, a coregulator of estrogen receptor activity, and by prothymosin alpha. Abstract, Eleventh International Congress of Endocrinology, Sydney, Australia, November 2000.
 116. Katzenellenbogen, B. S. Estrogen receptors: selective ligands, coregulators, and regulated genes in breast cancer. Symposium Abstract, Hormones and Cancer, Port Douglas, Australia, November 2000.
 117. Martini, P. G. V. and Katzenellenbogen, B. S. Regulation of prothymosin alpha (PTα) gene expression by estrogen in estrogen receptor-containing breast cancer cells and analysis of the PTα gene regulatory regions. Abstract, Hormones and Cancer, Port Douglas, Australia, November 2000.
 118. Stoica, A., Franke, T. F., Stoica, G. E., Chambon, P., Katzenellenbogen, B. S., Stoica, B. A., McIllemore, M. S., Olivo, S. E., Martin, M. B. A role for AKT in mediating the estrogenic functions of epidermal growth factor and insulin-like growth factor-I. Proceedings, Amer. Assoc. for Cancer Research 42:270 (Abstract 1454), March 2001.
 119. Katzenellenbogen, B. S., Sun, J., Katzenellenbogen, J. A., Meyers, M. J. and Stauffer, S. R. Development and characterization of estrogen receptor subtype selective ligands. Frontiers in Estrogen Action, Shannon, Ireland, 2001.
 120. Rajendran, R. R., Nye, A. C., Martini, P. G. V., and Katzenellenbogen, B. S. p97: a novel DEAD box RNA helicase that acts as a nuclear receptor coregulator. Abstract, 83rd Annual Meeting of the Endocrine Society, Denver, CO, June 2001.
 121. Martini, P. G. V. and Katzenellenbogen, B. S. Prothymosin alpha gene expression regulation by estrogen in estrogen receptor-containing breast cancer cells via upstream half-palindromic

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 65 – Abstracts

- estrogen response element motifs. Abstract, 83rd Annual Meeting of the Endocrine Society, Denver, CO, June 2001.
122. Sun, J., Huang, Y. R., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Selective antagonists for estrogen receptor alpha. Abstract, 83rd Annual Meeting of the Endocrine Society, Denver, CO, June 2001.
 123. Sun, J., Meyers, M. J., Marriner, G. A., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Estrogen receptor beta potency-selective ligands based on non-steroidal nitriles and their acetylene and polar analogs. Abstract, 83rd Annual Meeting of the Endocrine Society, Denver, CO, June 2001.
 124. Zhou, Q., Clarke, L., Nie, R., Carnes, K., Lai, L-W., Lien, Y-H. H., Verkman, A., Lubahn, D., Fisher, J. S., Katzenellenbogen, B. S., and Hess, R. A. Estrogen action and male fertility: roles of the sodium/hydrogen exchanger-3 and fluid reabsorption in reproductive tract function. Abstract, e.hormone 2001, New Orleans, LA, October 2001.
 125. Katzenellenbogen, B. S., Frasor, J., Rajendran, R. R., Harrington, W. R., Sheng, S. and Katzenellenbogen, J. A. Estrogen receptors, SERMs and breast cancer. Speaker Abstract, Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002.
 126. Radek, J., Shiau, A., Katzenellenbogen, J. A., Katzenellenbogen, B. S., and Greene, G. Molecular determinants of ligand selectivity between ER α and ER β . Abstract, Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002.
 127. Harrington, W. R., Sheng, S., Barnett, D. H., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Activities of estrogen receptor alpha and beta subtype-selective ligands at a range of estrogen responsive gene sites. Abstract, Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002.
 128. Frasor, J. and Katzenellenbogen, B. S. Examination of the roles of estrogen receptors, ER α and ER β , in the mouse uterus using receptor subtype-selective ligands. Abstract, Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002.
 129. Rajendran, R. R., Nye, A. C., Balsara, R. D. and Katzenellenbogen, B. S. Regulation of nuclear receptor transcriptional activity by a novel DEAD box RNA helicase p97. Abstract, Keystone Symposium, Nuclear Receptor Superfamily 2002, Snowbird, UT, April 2002.
 130. Katzenellenbogen, B. S., Frasor, J., Sun, J., Rajendran, R. R., Harrington, W. R., Sheng, S., Balsara, R. D., and Katzenellenbogen, J. A. Estrogen receptors, SERMs and breast cancer. Symposium Abstract, 84th Annual Meeting of The Endocrine Society, San Diego, CA, June 2002.
 131. Bowe, J., Li, X. F., Sugden, D., Katzenellenbogen, J. A., Katzenellenbogen, B. S. and O'Byrne, K. T. The effects of the phytoestrogen, coumestrol, on GnRH mRNA expression in GT1-7 cells. Abstract, 84th Annual Meeting of The Endocrine Society, San Diego, CA, June 2002.
 132. Frasor, J., and Katzenellenbogen, B.S. Examination of the roles of estrogen receptors, ER α and ER β , in the mouse uterus using receptor subtype-selective ligands. Gordon Research Conference on Reproductive Tract Biology, Connecticut College, New London, CT, July 2002.

133. Katzenellenbogen, B. S. Estrogen and progesterone receptors in breast cancer. Symposium, Breast Cancer Targeted Therapies, Maui, HI, July 2002.
134. Rajendran, R. R., Nye, A. C., Balsara, R. D. and Katzenellenbogen, B. S. Regulation of nuclear receptor transcriptional activity by a novel DEAD box RNA helicase p97. Abstract, Era of Hope meeting for the Department of Defense (DOD) Breast Cancer Research Program (BCRP), Orlando, FL, September 2002.
135. Katzenellenbogen, B. S. Estrogen signaling: The importance of molecular biology in women's health. Speaker Abstract, e.hormone meeting, New Orleans, LA, October 2002.
136. Katzenellenbogen, B. S. Biology of estrogen and progesterone receptors, National Institutes of Health Conference on The Women's Health Initiative and Menopausal Hormone Therapy, Bethesda, MD, October 2002.
137. Martini, P. G. V. and Katzenellenbogen, B. S. Modulation of estrogen receptor activity by selective coregulators, 11th International Congress on Hormonal Steroids and Hormones and Cancer, Fukuoka City, Japan, October 2002.
138. Frasor, J., Danes, J. M. and Katzenellenbogen, B. S. Transcriptional profiling of estrogen-regulated gene expression in human breast cancer cells. Abstract, 94th Annual Meeting of the American Association for Cancer Research, Toronto, Canada, April 2003.
139. Frasor, J., Danes, J. M., and Katzenellenbogen, B. S. Characterization of differences in the agonistic and antagonistic actions of selective estrogen receptor modulators (SERMs) by microarray gene expression profiling in breast cancer cells. Abstract, 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, June 2003.
140. Chang, E., Frasor, J. and Katzenellenbogen, B. S. Modulatory effects of estrogen receptor b on estrogen receptor a in breast cancer cells. Abstract, 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, June 2003.
141. Stossi, F., Barnett, D. H., Frasor, J., and Katzenellenbogen, B. S. Transcriptional profiling of estrogen-regulated gene expression in human osteosarcoma cells stably expressing estrogen receptor alpha or estrogen receptor beta. Abstract, 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, June 2003.
142. Minutolo, F., Antonello, M, Bertini, S., Ortore, G., Placanica, G., Rapposelli, S., Sheng, S., Carlson, K. E., Katzenellenbogen, B. S., Katzenellenbogen, J. A., Macchia, M. Alternatives to phenol-based estrogen receptor ligands. Abstract, Italian Chemical Society Medicinal Chemistry Division Conference, Turin, Italy, June 2003.
143. Katzenellenbogen, B. S., Frasor, J., Rai, D., Stossi, F., Harrington, W., Park, S., Rajendran, R., Barnett, D., Chang, E., Sheng, S. Estrogen actions: 2003 perspective of estrogen receptor mechanisms and cellular regulation. Abstract, Society for the Study of Reproduction Thirty-Sixth Annual Meeting, Cincinnati, OH, July 2003.
144. Nettles, K. W., Sun, J., Radek, J. T., Rodriguez, A.L., Katzenellenbogen, J. A., Katzenellenbogen, B. S. and Greene, G. L. Ligand selectivity between estrogen receptors α and

- reveals importance of amino acids distal to the ligand. Abstract, 85th Annual Meeting of The Endocrine Society, Philadelphia, PA, June 2003.
145. Katzenellenbogen, B. S. Estrogen receptors, selective estrogen receptor modulators and breast cancer. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 146. Frasor, J. and Katzenellenbogen, B. S. Regulation of gene expression in breast cancer cells by estrogen and SERMs. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 147. Harrington, W. R., Sheng, S., Barnett, D. H., Petz, L. N., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Activities of estrogen receptor alpha- and beta-selective ligands at diverse estrogen responsive gene sites mediating transactivation or transrepression. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 148. Frolova, A., Rai, D., Frasor, J. and Katzenellenbogen, B.S. Genomic and non-genomic actions of estrogens mediated by membrane-targeted estrogen receptors. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 149. Stender, J., Frasor, J. and Katzenellenbogen, B. S. Characterization of estrogen-regulated gene expression in breast cancer cells through transcriptional profiling and analysis of the gene cis-acting regulatory sequences. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 150. Mao, C., Wang, S., Rodriguez, A., Katzenellenbogen, B. S. and Shapiro, D. J. A novel estrogen response element converts 4-hydroxytamoxifen into a potent activator and leads to a unique OHT-regulated expression system. Jensen Symposium on Nuclear Receptors and Endocrine Diseases, University of Cincinnati, December 2003.
 151. Katzenellenbogen, B. S., Frasor, J., Park, S., Stossi, F., Barnett, D., Stender, J., Harrington, W., Chang, E., and Sheng, S. Estrogen receptors: Structure-activity relationships and regulation of gene expression. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Keystone, CO, February 2004.
 152. Frasor, J. and Katzenellenbogen, B. S. Differential effects of the selective estrogen receptor modulators (SERMs) tamoxifen and raloxifene on gene expression in breast cancer cells. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Keystone, CO, February 2004.
 153. Stossi, F., Barnett, D. H., Frasor, J. and Katzenellenbogen, B. S. Transcriptional profiling of estrogen-regulated gene expression via estrogen receptor □ or estrogen receptor □ in human osteosarcoma cells: Distinct and common target genes for these receptors. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Keystone, CO, February 2004.
 154. Stender, J., Frasor, J. and Katzenellenbogen, B. S. Characterization of estrogen-regulated gene expression in breast cancer cells through transcriptional profiling and analysis of the gene cis-acting regulatory sequences. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Keystone, CO, February 2004.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 68 – Abstracts

155. Katzenellenbogen, B. S., Frasor, J., Barnett, D. H., Chang, E., Harrington, W. R., Sheng, S., Stender, J. and Stossi, F. Selective estrogen receptor modulators, gene regulation and breast cancer prevention. Extended abstract, Proceedings, 95th Annual Meeting, American Association for Cancer Research, p. 45-46, Orlando, FL, March 2004.
156. Frasor, J. and Katzenellenbogen, B. S. Identification of genes selectively regulated by the SERM tamoxifen in breast cancer cells. 95th Annual Meeting, American Association for Cancer Research, Abstract 1474, p. 339, Orlando, FL, March 2004.
157. Barnett, D. H., Frasor, J., Stossi, F., Sengupta, S., Harrington, W. R. and Katzenellenbogen, B. S. Carbonic Anhydrase XII: An estrogen-regulated gene in diverse targets of estrogen action. 86th Annual Meeting of The Endocrine Society, New Orleans, LA, June 2004.
158. Frasor, J., Barnett, D. H., Danes, J. M. and Katzenellenbogen, B. S. The selective estrogen receptor modulators (SERMs) tamoxifen and raloxifene have differential effects on gene regulation in breast cancer cells. 86th Annual Meeting of The Endocrine Society, New Orleans, LA, June 2004.
159. Harrington, W. R., Kim, S. H., Katzenellenbogen, J. A. and Katzenellenbogen, B. S. Estrogen-dendrimer conjugates that preferentially activate membrane-initiated, non-genomic versus genomic pathways of estrogen action. 86th Annual Meeting of The Endocrine Society, New Orleans, LA, June 2004.
160. Park, S., Xu, J., Frolova, A., O'Malley, B. W. and Katzenellenbogen, B. S. Genetic ablation of the repressor of estrogen receptor activity (REA) modulates response to estrogen in target tissues. 86th Annual Meeting of The Endocrine Society, New Orleans, LA, June 2004.
161. Vasudevan, N., Kow, L. M., Jasnow, A., Katzenellenbogen, B. S. and Pfaff, D. Integration of steroid hormone initiated membrane action to genomic function in the brain. FASEB Summer Research Conference, Steroid Hormone Receptors: Integration of Plasma-Membrane and Nuclear-Initiated Signaling in Hormone Action, Tucson, AZ, July 2004.
162. Katzenellenbogen, B.S. Breast cancer regulation by estrogen receptors alpha and beta and coregulators. Keystone Symposium, Hormonal Regulation of Tumorigenesis, Monterey, CA, February 2005.
163. Mishra, R.G., Stanczyk, F.Z., Burry, K.A., Oparil, S., Katzenellenbogen, B.S., Katzenellenbogen, J.A., Nealen, M.L. and Hermsmeyer, R.K. Estrogen receptor beta suppresses primate coronary hyperreactivity. American Heart Association Second International Conference on Women, Heart Disease, and Stroke, Orlando, FL, February 2005.
164. Guerini V., Sau D., Rusmini P., Ciana P., Maggi A., Martini P.G.V., Katzenellenbogen B., Motta M. and Poletti A. The androgen derivative 5alpha-androstane-3beta,17beta-diol (3beta-diol) inhibits migration of prostate cancer cell by activation of the estrogen receptor beta. 96th Annual Meeting, American Association for Cancer Research, Anaheim, CA, April 2005.
165. Katzenellenbogen, B.S., Park, S.E., Xu, J., Frolova, A., Mussi, P. and O'Malley, B.W. Repressor of estrogen receptor activity (REA): Genetic ablation and physiological Insights. 87th Annual Meeting of The Endocrine Society, San Diego, CA, June 2005.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 69 – Abstracts

166. Frasor J., Danes, J.M., Funk, C.C. and Katzenellenbogen, B.S. Estradiol down-regulation of corepressor N-CoR protein levels in breast cancer cells is mediated by the up-regulation of Siah2: Implications for estrogen receptor crosstalk with other nuclear receptors. 87th Annual Meeting of The Endocrine Society, San Diego, CA, June 2005.
167. Gowri, P.M., Sengupta, S., Bertera, S. and Katzenellenbogen, B.S. Estrogen regulation of lipin1 in the uterus of normal and diabetic mice. 87th Annual Meeting of The Endocrine Society, San Diego, CA, June 2005.
168. Stender, J.D., Stossi, F., Kraus, W.L. and Katzenellenbogen, B.S. Deciphering genes regulated by the estrogen receptor via DNA binding and tethering mechanisms in breast cancer cells. 87th Annual Meeting of The Endocrine Society, San Diego, CA, June 2005.
169. Stossi, F., Likhite, V.S., Katzenellenbogen, J.A. and Katzenellenbogen, B.S. Estrogen-occupied estrogen receptor inhibits cyclin G2 expression and recruits a repressor complex at the cyclin G2 promoter. 87th Annual Meeting of The Endocrine Society, San Diego, CA, June 2005.
170. Kim, D.W., Barnett, D.H., Gunther, J.R., Katzenellenbogen, B.S. and Katzenellenbogen, J.A. Inhibitors of carbonic anhydrase XII suitable for F-18 radiolabeling. 16th International Symposium on Radiopharmaceutical Chemistry, Iowa City, IA, June 2005.
171. Frasor, J., Danes, J.M., Katzenellenbogen, B.S. Gene expression preferentially stimulated by Tamoxifen in breast cancer cells. Gordon Research Conference, Mammary Gland Biology, New Hampshire, June 2005.
172. Mussi, P., Maggi, A., Katzenellenbogen, B.S., Xu, J., O'Malley, B.W. REA (Repressor of estrogen receptor activity) is a negative modulator of ER activity in the mammary gland. Keystone Meeting on Tissue Selective Nuclear Receptors, Breckenridge, CO, September 2005.
173. Frasor, J., Danes, J.M., Katzenellenbogen, B.S. Differential regulation of gene expression by the SERMs Tamoxifen and Raloxifene in breast cancer cells. Great Lakes Nuclear Receptor Conference, Madison, WI, October 2005.
174. Katzenellenbogen, B.S., Chang, E., Stossi, F., Park, S.E., Mussi, P., Barnett, D., Madak-Erdogan, Z., Morrow, C., Hess, R., Katzenellenbogen, J.A. Novel modulators of estrogen receptor function. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Banff, Alberta, Canada, March 2006.
175. Madak-Erdogan, Z., Funk, C.C., Kim, S.H., Harrington, W.R., Schiff, R., Katzenellenbogen, J.A., Katzenellenbogen, B.S. Examination of extranuclear, non-genomic versus genomic pathways of estrogen action. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Banff, Alberta, Canada, March 2006.
176. Stossi, F., Likhite, V.S., Katzenellenbogen, J.A., Katzenellenbogen, B.S. Estrogen-occupied estrogen receptor represses cyclin G2 gene expression and recruits a repressor complex at the cyclin G2 promoter. Keystone Symposium, Nuclear Receptors: Steroid Sisters, Banff, Alberta, Canada, March 2006.
177. Morrow, C., Park, S.E., Mukai, M, Katzenellenbogen, B.S., Hess, R.A. Male reproductive abnormalities in repressor of estrogen receptor activity (REA) heterozygous knockout mice. American Society of Andrology 31st Annual Meeting, Chicago, IL, April 2006.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 70 – Abstracts

178. Katzenellenbogen, B. S., Katzenellenbogen, J. A. The diverse world of estrogens and estrogen receptor actions. Roy O. Greep Award Lecture, 88th Annual Endocrine Society Meeting, Boston, MA, June 2006.
179. Morrow, C. M. K., Carnes, K. I., Ford, Jr., J. A., Park, S. E., Katzenellenbogen, B. S., Hess, R. A. Expression of estrogen receptor (ER) interacting nuclear receptor cofactors in mouse testes. 39th Annual Meeting of the Society for the Study of Reproduction, Omaha, NE, July 2006.
180. Minutolo, F., Bertini, S., Rapposelli, S., Carlson, K. E., Katzenellenbogen, J. A., Stossi, F., Katzenellenbogen, B. S., Macchia, M. Aminobenzotiazoles as beta-selective estrogen receptor ligands. 22nd Annual Meeting of the Italian Medicinal Chemistry Society, Florence, Italy, September 2006.
181. Chambliss, K. L., Kumar, P., Yuhanna, I. S., Katzenellenbogen, B. S., Katzenellenbogen, J. A., Mineo, C., Shaul, P. W. Estrogen dendrimer conjugate reveals that estrogen-induced endothelial cell migration and proliferation are mediated by non-nuclear estrogen receptors that interact directly with G α i. American Heart Association, September 2006.
182. Katzenellenbogen, B. S. Estrogen receptors alpha and beta in breast cancer. Plenary Lecture. 12th International Congress on Hormonal Steroids and Hormones in Cancer, Athens, Greece, September 2006.
183. Katzenellenbogen, B. S., Barnett, D. H., Chang, E. C., Madak-Erdogan, Z., Park, S. H., Stender, J. D., Stossi, F., Katzenellenbogen, J. A. Integration of nuclear and extranuclear signaling by estrogen receptors. EMBO Conference on Nuclear Receptors in Health and Disease, Italy, May 2007.
184. Madak-Erdogan, Z., Kim, S. H., Katzenellenbogen, J. A., Katzenellenbogen, B. S., Nuclear and extranuclear signaling by estrogen receptors and their impact on global gene expression. EMBO Conference on Nuclear Receptors in Health and Disease, Italy, May 2007.
185. Stossi, F., Katzenellenbogen, B. S. Role of Sp1 in estrogen receptor-mediated gene repression in breast cancer. EMBO Conference on Nuclear Receptors in Health and Disease, Italy, May 2007.
186. Barnett, D. H., Sheng, S., Charn, T. H., Lin, C. Y., Liu, E. T., Katzenellenbogen, B. S. Estrogen receptor use of a distal enhancer for gene regulation: Carbonic anhydrase XII in breast cancer. 89th Annual Endocrine Society Meeting, Toronto, Canada, June 2007.
187. He, B., Feng, Q., Lonard, D. M., DeMayo, F. J., Katzenellenbogen, B. S., Lydon, J. P., O'Malley, B. W. Prohibitin is an estrogen receptor- α transcriptional corepressor. 89th Annual Endocrine Society Meeting, Toronto, Canada, June 2007.
188. Chang, E.C., Frasor, J., Katzenellenbogen, B.S. Modulatory actions of estrogen receptor beta on gene networks regulated by estrogen receptor alpha in breast cancer cells. Mills Breast Cancer Symposium, University of Illinois, College of Medicine, October 2007.
189. Katzenellenbogen, B.S. Estrogens and estrogen receptors in human health and disease. 39th International Congress of Pharmacology and Experimental Therapeutics. Sao Paulo, Brazil, October 2007.

190. Katzenellenbogen, B. S. Barnett, D. H., Chang, E. C., Kim, K., Madak-Erdogan, Z., Park, S. H., Stender, J. D., Stossi, F. Integration of nuclear and extranuclear signaling in global gene regulation by estrogen receptors. 2008 Keystone Symposium on Nuclear Receptors: Steroid Sisters. Whistler, Canada, March 2008.
191. Stossi, F. Madak-Erdogan, Z., Katzenellenbogen, B. S. Molecular mechanisms in estrogen receptor alpha-mediated transcriptional repression of early target genes. 2008 Keystone Symposium on Nuclear Receptors: Steroid Sisters. Whistler, Canada, March 2008.
192. Madak-Erdogan, Z., Kim, S. H., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Nuclear and extranuclear pathway inputs in the regulation of global gene expression by estrogen receptors. 2008 Keystone Symposium on Nuclear Receptors: Steroid Sisters. Whistler, Canada, March 2008.
193. Stender, J. S. Funk, C. C., Charn, T. H., Barnett, D. H., Stossi, F., Katzenellenbogen, B. S. PITX1, an estrogen regulated transcription factor, coordinates gene-specific regulation by the estrogen receptor in breast cancer cells. ENDO 2008 Annual Meeting. San Francisco, California, June 2008.
194. Madak-Erdogan, Z., Kieser, K. J., Kim, S. H., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Integration of extranuclear and nuclear estrogen receptor signaling and regulation of gene expression in breast cancer. ENDO 2008 Annual Meeting. San Francisco, California, June 2008.
195. Katzenellenbogen, B. S., Madak-Erdogan, Z., Kim, K., Park, S., Kim, S., Stossi, F., Katzenellenbogen, J. A. Nuclear and extranuclear signaling by estrogen receptors in breast cancer cells. Extra-Nuclear Steroid Receptors: Integration with Multiple Signaling Pathways. Carefree, Arizona, July 2008.
196. Katzenellenbogen, B. S. Estrogens and Estrogen Receptors and Their Diverse Actions in Health and Disease. Nobel Conference on “Recent Advances in Understanding Estrogen Signaling: From Molecular Insights to Clinical Implications”, Keynote Speaker. Stockholm, Sweden, September 2008.
197. Stossi, F., Madak-Erdogan, Z., Katzenellenbogen, B. S. Molecular mechanisms in estrogen receptor alpha-mediated transcriptional repression of early gene targets. 29th Annual Minisymposium on Reproductive Biology, Northwestern University, Evanston, IL, October 2008.
198. Kieser, K. J., Kim, D. W., Carlson, K. E., Katzenellenbogen, B. S., Katzenellenbogen, J. A. Characterization of the pharmacophore properties of novel selective estrogen receptor downregulators (SERDs). 29th Annual Minisymposium on Reproductive Biology, Northwestern University, Evanston, IL, October 2008.
199. Bergamaschi, A., Frasor, J., Kieser, K. J., Wiley, E. L., Katzenellenbogen, B. S. A breast cancer gene signature associated with high expression of 14-3-3z predicts poor clinical outcome on endocrine therapy. Abstract 2854, Proceedings, 100th Annual Meeting, Amer. Assoc. Cancer Research, Denver, CO, April 2009.
200. Katzenellenbogen, B. S., Madak-Erdogan, Z., Kieser, K. J. Contributions of extranuclear and nuclear estrogen receptor signaling in the actions of estrogen and SERMs in target cells. Frontiers in Estrogen Action Meeting, Sanibel, Florida, April 2009.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 72 – Abstracts

201. Shaul, P. W., Chambliss, K. L., Wu, Q., Oltmann, S., Umetani, M., Korach, K. S., Thomas, G. D., Mineo, C., Kim, S. H., Madak-Erdogan, Z., Maggi, A., Dineen, S. P., Roland, C. L., Brekken, R. A., Katzenellenbogen, J. A., Katzenellenbogen, B. S. Nongenomic estrogen receptor signaling, G-proteins and cardio vascular protection. *Frontiers in Estrogen Action Meeting*, Sanibel, Florida, April 2009.

Curriculum Vitae

BENITA S. KATZENELLENBOGEN

Page 73 – Abstracts

202. Park, S., Yoon, S., Ramathal, C., Liao, L., Liu, Z., Xu, J., Lydon, J.P., DeMayo, F.J., O'Malley, B., Bagchi, M.K., Katzenellenbogen, B.S. The nuclear receptor coregulator, REA, is essential for normal uterine function and successful maintenance of early pregnancy. U54 SCCPIR Investigator's Meeting, Chicago, IL, May 2009.
203. Bhatt, S., Stossi, F., Katzenellenbogen, B. S. Regulation of estrogen receptor alpha (ER α) turnover by the E3 Ubiquitin Ligase, Skp2, in breast cancer cells. ENDO 2009, Annual Endocrine Society Meeting, Washington, D.C., June 2009.
204. Charn, T.H., Liu, E.T., E.C., Kok, Y., Katzenellenbogen, J.A., and Katzenellenbogen, B.S., Dynamics of Chromatin Binding of Estrogen Receptors α and β : Mutual Restriction and Competitive Site Selection, Keystone Symposium on Genome Biology, Ireland, June 2009.
205. Stossi, F., and Katzenellenbogen, B.S. Cross-talk between macrophages and breast cancer cells reveals new pathways that cause Estrogen Receptor-alpha down-regulation and contribute to endocrine resistance. Gordon Research Conference on Hormone Action in Development and Cancer, Holderness School, Plymouth, New Hampshire, July 2009.
206. Madak- Erdođan, Z., Katzenellenbogen, B.S. Regulation of the Dynamics of Estrogen Receptor Alpha Gene Control by the Aryl Hydrocarbon Receptor. Gordon Research Conference on Hormone Action in Development and Cancer, Holderness School, Plymouth, New Hampshire, July 2009.
207. Bergamaschi, A., Frasor, J., and Katzenellenbogen, B.S., A Gene Signature and Molecular Phenotype Associated with High Expression of 14-3-3z and Its Correlation with Antiestrogen Resistance in Breast Cancer. 2nd Jensen Symposium on Nuclear Receptors, University of Cincinnati Medical Center, Cincinnati, OH, October 2009.
208. Katzenellenbogen, B.S., Pathways and Pharmacology of Estrogens and Estrogen Receptor Actions. Chinese Medicinal Chemistry Symposium, Wuhan, China, October 2009.
209. Wu, Q., Chambliss, K.L., Oltmann, S.C., Umetani, M., Yuhanna, I.S., Korach, K.S., Thomas, G.D., Mineo, C., Kim, S.H., Madak- Erdođan, Z., Maggi, A., Dineen, S.P., Roland, C.L., Brekken, R.A., Katzenellenbogen, J.A., Katzenellenbogen, B.S., Shaul, P.W., Extranuclear Estrogen Receptor α Signaling Promotes Endothelial Monolayer Integrity but not Breast Cancer or Uterine Growth in Mice. American Heart Association Meeting, Orlando, FL, November 2009.
210. Park, S., Yoon, S., Ramathal, C., Liao, L., Liu, Z., Xu, J., Lydon, J.P., DeMayo, F.J., O'Malley, B., Bagchi, M.K., Katzenellenbogen, B.S., Normal Uterine Function and Decidualization in Early Pregnancy Require the Nuclear Receptor Coregulator, REA. 30th Annual Minisymposium on Reproductive Biology in conjunction with the 1st Illinois Symposium on Reproductive Biology, Northwestern University, Evanston, IL, October 2009.
211. Madak- Erdođan, Z., Lupien, M., Stossi, F., Brown, M., and Katzenellenbogen, B.S., Critical role of ERK2 in Estrogen Receptor alpha (ER α)-mediated regulation of gene expression and proliferation of breast cancer cells. Keystone Symposium on Nuclear Receptors: Signaling, Gene Regulation and Cancer/Nuclear Receptors: Development, Physiology and Disease, Keystone, Colorado, March, 2010.

212. Stossi, F., Madak- Erdoğan, Z., and Katzenellenbogen, B.S., Macrophage-derived Soluble Factors Cause Loss of Estrogen Receptor Alpha in Breast Cancer Cells via Hyperactivation of ERK2 and c-Jun. Keystone Symposium on Nuclear Receptors: Signaling, Gene Regulation and Cancer/Nuclear Receptors: Development, Physiology and Disease, Keystone, Colorado, March, 2010.
213. Katzenellenbogen, B.S., Madak- Erdoğan, Z., Bergamaschi, A., Stossi, F., Lupien, M., Brown, M., Katzenellenbogen, J.A. Genomics of Estrogen Receptor Signaling in Breast Cancer and Endocrine Resistance. Keystone Symposium on Nuclear Receptors: Signaling, Gene Regulation and Cancer/Nuclear Receptors: Development, Physiology and Disease, Keystone, Colorado, March, 2010.
214. Katzenellenbogen, B.S., Madak- Erdoğan, Z., Bergamaschi, A., Stossi, F., Lupien, Charn, T.H. Genomics of Estrogen Receptor Signaling in Target Cells. Frontiers Meeting on Estrogens, SERMs, and TSECs, Philadelphia, PA, April, 2010.
215. Marshall, G.M., Gherardi, S., Xu, N., Neiron, X., Trahair, T., Scarlett, C., Chang, D.K., Liu, P.Y., Jankowski, K., Iraci, N., Haber, M., Norris, M.D., Stossi, F., Katzenellenbogen, B.S., Biankin, A.V., Perini, G., Liu, T.. Transcriptional upregulation of histone deacetylase 2 promotes Myc-induced oncogenic effects. AACR 10^{1st} Annual Meeting 2010, Washington, DC, April 2010.
216. Kim, K. and Katzenellenbogen, B.S., Phosphorylation Status of Estrogen Receptor alpha and Endocrine Resistance in Breast Cancer, ENDO 2010: The 92nd Annual Meeting & Expo, San Diego, CA, June, 2010.
217. Park, S., Yoon, S., Zhao, Y., Liao, L., Liu, Z., Xu, J., Lydon, J.P., DeMayo, F.J., O'Malley, B., Bagchi, M.K., and Katzenellenbogen, B.S., Altering Coregulator Concentration by Conditional Genetic Modification: Gene Dosage of REA is Critical for Fertility and Uterine Function, ENDO 2010: The 92nd Annual Meeting & Expo, San Diego, CA, June, 2010.
218. Kim, K. and Katzenellenbogen, B.S., Impact of Estrogen Receptor alpha Phosphorylation Site Mutations on Hormone Responsiveness and Endocrine Resistance in Breast Cancer, 2nd Illinois Reproductive Biology Symposium, Chicago, IL, October 10, 2010.
219. Park, S., Yoon, S., Park, S., Zhao, Y., Xu, J., Lydon, J.P., DeMayo, F.J., O'Malley, B., Bagchi, M.K., and Katzenellenbogen, B.S., Gene dosage of the coregulator REA is critical of uterine function and fertility, 2nd Illinois Reproductive Biology Symposium, Chicago, IL, October 10, 2010.
220. Katzenellenbogen, B. S., Madak-Erdogan, Z., Stossi, F., and Bergamaschi, A., Integration of Cell Signaling in the Genomic Actions of Nuclear Receptors, Keynote Lecture, Great Lakes Nuclear Receptor Meeting, Ann Arbor, MI, October, 2010.
221. Katzenellenbogen, B. S., Madak-Erdogan, Z., Stossi, F., Bergamaschi, A., and Charn, T. H., Genomics of Estrogen Receptor Signaling and Actions of Breast Cancer. Symposium Talk, Congress on Steroid Research, Chicago, IL, March, 2011.
222. Bergamaschi, A, and Katzenellenbogen, B.S., Mechanistic Basis of Tamoxifen Associated Development of Endocrine Resistance in Breast Cancer, AACR, Orlando, FL, April 2011.

223. Katzenellenbogen, B. S., Madak-Erdogan, Z., Stossi, F., and Bergamaschi, A., Integration of cell signaling in the genomic actions of estrogen receptors, Estrogens, SERMS and TSECs Meeting, Clearwater, FL, April 6-8, 2011.
224. Shaul, P.W., Chambliss, K.L., Wu, Q., Mangelsdorf, D.J., Mineo, C., Katzenellenbogen, J.A., Katzenellenbogen, B.S., Hui, D.Y., and Umetani, M., Novel Endogenous and Exogenous SERMs and Cardiovascular Health Estrogens, SERMS and TSECs Meeting, Clearwater, FL, April 6-8, 2011.
225. Zhao, Y., Park, S., Bagchi, M.K., Taylor, R.N., and Katzenellenbogen, B. S., The Coregulator, Repressor of Estrogen Receptor Activity (REA), Controls the Timing and Magnitude of Human Endometrial Stromal Cell Decidualization, SCCPIR Meeting, Chicago, IL, May 11-13, 2011.
226. Katzenellenbogen, B. S., Madak-Erdogan, Z., Bergamaschi, A., Stossi, F., and Charn, T. H., Genomics of Estrogen Receptor Signaling in Target Cells, ER β Symposium “Therapeutic potential of ER β as drug target”, Stockholm, Sweden, May 16-17, 2011.
227. Madak- Erdoğan, Z., Kim, K. and Katzenellenbogen, B.S., A MicroRNA and TP63 Circuit Regulated by Estrogen Receptor- α and ERK2 that Controls Breast Cancer Proliferation and Invasiveness Properties. ENDO 2011: The 93rd Annual Meeting & Expo, Boston, MA, June, 2011.
228. Madak- Erdoğan, Z. and Katzenellenbogen, B.S., Aryl Hydrocarbon Receptor Modulation of Estrogen Receptor- α -Mediated Gene Regulation by a Multimeric Chromatin Complex Involving the Two Receptors and the Coregulator RIP140. ENDO 2011: The 93rd Annual Meeting & Expo, Boston, MA, June, 2011.
229. Bhatt, S., Stender, J., and Katzenellenbogen, B.S., Interplay between Skp2, p38MAPK and Oct-3/4 Regulates Tamoxifen Resistance in Breast Cancer Cells. ENDO 2011: The 93rd Annual Meeting & Expo, Boston, MA, June, 2011.
230. Katzenellenbogen, B.S., Madak-Erdogan, Z., Bergamaschi, A., Stossi, F., Kim, K., Park, S., and Charn, T.H., Estrogen Receptor Signaling and Actions in Breast Cancer and Endocrine Resistance: Interplay of Receptors, Protein Kinases, and miRNAs. ENDO 2011: The 93rd Annual Meeting & Expo, Boston, MA, June, 2011.
231. Bergamaschi, A. and Katzenellenbogen, B.S., Mechanistic Basis of Tamoxifen-Associated Development of Endocrine Resistance in Breast Cancer. DOD BCRP Era of Hope Meeting, Orlando, FL, August 2011.
232. Bartell, S.M. Iyer, S. Han, L. Warren, A. Shelton, R.S. Bradsher III, R. Kim, S.H. Katzenellenbogen, B.S. Chambliss, K.L. Shaul, P.W. Katzenellenbogen, J.A. Roberson, P.K. Weinstein, R.S. O’Brien, C.A. Jilka, R.L. Almeida, M. Manolagas S.C. Non-nuclear ER α signaling prevents oxidative stress and the loss of bone, but not the loss of uterine weight, in OVX mice. American Society for Bone and Mineral Research Meeting, San Diego Convention Center, San Diego, CA, September 16-20, 2011.
233. Zhao, Y., Park, S., Bagchi, M.K., Taylor, R.N., and Katzenellenbogen, B.S., The Coregulator, Repressor of Estrogen Receptor Activity (REA), is Crucial in the Control of Human and Mouse Endometrial Stromal Cell Decidualization. Illinois Reproductive Sciences Symposium, October 2011.

234. Bergamaschi, A., Frasor, J., Borgen, K., Stanculescu, A., Johnson, P., Rowland, K., Wiley, E.L., and Katzenellenbogen, B.S., Identification of 14-3-3z as a predictor of early time to recurrence and a molecular target in metastatic hormone receptor-positive and -negative breast cancers. AACR 103rd Annual Meeting, Chicago, March 29-April 2, 2012.
235. Holton, S.E., Bergamaschi, A., Katzenellenbogen, B.S., and Bhargava, R., A spectroscopic signature associated with hormone sensitivity in 3D co-culture models of breast cancer. AACR 103rd Annual Meeting, Chicago, March 29-April 2, 2012.
236. Appachi, S, Shaul, P.W., Katzenellenbogen, J.A., Katzenellenbogen, B.S., Chambliss, K., Sun, J., and Murphy, E., Non-nuclear Estrogen Receptor Activation is Protective in Cardiac Ischemia-Reperfusion Injury in Mice. International Society for Heart Research, Conference, Banff, Alberta, Canada, May 28-31, 2012.
237. Madak- Erdoğ an, Z., Gong, P., and Katzenellenbogen, B.S., Genomics and Integration of Estrogen Receptor Alpha and Protein Kinase Chromatin Binding and Regulation of Gene Expression and Cell Properties with a Tissue-Selective Estrogen Complex (TSEC). ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
238. Madak- Erdoğ an, Z., Bergamaschi, A., Ventrella, R., Lu, H., Katzenellenbogen, B.S., Estrogen Receptor Regulation of ERK5 and Cofilin Localization Impacts Breast Cancer Phenotypic Properties and Endocrine Resistance. ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
239. Stossi, F., Madak-Erdoğ an, Z., Ventrella, R., and Katzenellenbogen, B.S., Macrophage-Derived Amphiregulin Causes Estrogen Receptor Alpha Down-Regulation in Tamoxifen Resistant Breast Cancer Cells. ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
240. Jiang, Y., Jeyakumar, M., Carlson, K., Khan, I., Helferich, W.G., Katzenellenbogen, J.A., and Katzenellenbogen, B.S., Botanical Estrogens: Molecular Mechanisms and Cellular Pathways of Activity in Target Cells. ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
241. Zhao, Y., Park, S., Bagchi, M.K., Taylor, R.N., and Katzenellenbogen, B.S., Uterine Decidualization Timing and Magnitude Depend Critically on the Coregulator, Repressor of Estrogen Receptor Activity (REA). ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
242. Madak- Erdoğ an, Z., Charn, T.H., Jiang, Y., Liu, E.T., Katzenellenbogen, J.A., and Katzenellenbogen, B.S., An Integrative Genomic Analysis Delineating Specification in Hormone Action Through Estrogen Receptor α and Estrogen Receptor β in Breast Cancer Cells. ENDO 2012: The 94th Annual Meeting & Expo, Houston, TX, June 2012.
243. Katzenellenbogen, B.S., Madak-Erdogan, Z., Bergamaschi, A., Gong, P., Ventrella, R., Jiang, Y., and Lu, H., Roles of MAP Kinases in the Genomics and Integration of Estrogen Receptor Signaling, FASEB 2012 Meeting, "Integration of Genomic and Non-Genomic Steroid Receptor Actions", Snowmass, CO, July 2012.
244. Appachi, S. Sun, J. Chambliss, K.L. Katzenellenbogen, J.A. Katzenellenbogen, B.S. Shaul, P.W. Murphy E.. Non-nuclear estrogen receptor activation is protective in cardiac ischemia-reperfusion injury in mice. *Journal of Molecular and Cellular Cardiology*. 2012, 53, S25.

245. Shaul, P.W., Barrera, J., Katzenellenbogen, B.S., Katzenellenbogen, J.A., Yin, H., Sun, J., Murphy, E., Mineo, C., Chambliss, K.L. Roles of MAP Kinases in the Genomics and Integration of Estrogen Receptor Signaling, FASEB 2012 Meeting, “Basis and Consequences of Non-Nuclear Estrogen Receptor Function in the Cardiovascular System”, Snowmass, CO, July 2012.
246. Zhao, Y., Li, Q., Katzenellenbogen, B.S., Taylor, R.N., Bagchi, I.C., and Bagchi, M.K. Regulation of angiogenesis by CCN1/CYR61 is critical for endometriosis-like lesion establishment in the mouse, Illinois Reproductive Biology Symposium, Northwestern University, Evanston, IL, October 2012
247. Bartell, S.M. Iyer, S. Han, L. Warren, A. Kim, S.H. Katzenellenbogen, B.S. Chambliss, K.L. Shaul, P.W. Katzenellenbogen, J.A. Roberson, P.K. Weinstein, R.S. O’Brien, C.A. Jilka, R.L. Almeida, M. Manolagas S.C.. An estrogen dendrimer conjugate incapable of stimulating the nuclear-initiated actions of estrogen receptors prevents the loss of cortical bone mass in estrogen deficient mice. American Society of Bone and Mineral Research; Minneapolis, MN, October 12-15, 2012.
248. Bergamaschi, A., Madak-Erdogan, Z., Lu, H., and Katzenellenbogen, B.S. FOXM1-dependent gene expression program controls cancer stem cell and metastasis properties of breast cancer cells. AACR Meeting (Tumor Invasion and Metastasis AACR Special Conference), San Diego, CA, January 20-23, 2013
249. Madak-Erdogan, Z., Charn, T.H., Jiang, Y., Liu, E.T., Katzenellenbogen, J.A. and Katzenellenbogen, B.S. Integrative genomic analysis delineating combinatorial specification of gene regulation and metabolism through estrogen receptors α and β and coregulators in breast cancer cells. Keystone Meeting - Tumor Metabolism (X4) joint with the meeting on PI 3-Kinase and Interplay with Other Signaling Pathways (X3) Keystone, CO February 24—Mar 1, 2013
250. Madak-Erdogan, Z., Bergamaschi, A., Ventrella, R., Lu, H., and Katzenellenbogen, B.S. Estrogen Receptor- α Dictates the Subcellular Localization of ERK5 to Control Differential Proliferation and Invasion Programs of Breast Cancer Cells. AACR 104th Annual Meeting, Washington, D.C., April 6-10, 2013.
251. Bergamaschi, A., Madak-Erdogan, Z., Lu, H., and Katzenellenbogen, B.S. Genome-wide analysis of FOXM1 binding and involvement of FOXM1 in cancer stem cell and metastasis properties of endocrine-sensitive and resistant breast cancer cells. AACR 104th Annual Meeting, Washington, D.C., April 6-10, 2013.
252. Holton, S.E., Bergamaschi, A., Katzenellenbogen, B.S., and Bhargava, R. Mammary fibroblasts induce hormone-independent growth in Estrogen Receptor-positive breast cancer cells via an epithelial-to-mesenchymal transition in a 3D cell culture model. AACR 104th Annual Meeting, Washington, D.C., April 6-10, 2013.
253. Zhao, Y., Gong, P., Chen, U., Bagchi, M.K., Taylor, R.N., Nettles, K.W., Katzenellenbogen, J.A. and Katzenellenbogen, B.S. Novel Estrogen Receptor Ligands with Anti-estrogenic and Anti-inflammatory Activity for Prevention and Treatment of Endometriosis: Studies in a Mouse Model. ENDO 2013: The 95th Annual Meeting & Expo, San Francisco, CA, June 2013.
254. Zhao, Y., li, Q., Katzenellenbogen, B.S., Taylor, R.N., Bagchi, I.C. and Bagchi, M.K. Estrogen-Induced Expression of CCN1 is Critical for Vascular Network Formation during Establishment of Endometriosis-like Lesions in a Mouse Model ENDO 2013: The 95th Annual Meeting & Expo, San Francisco, CA, June 2013.

255. Adlanmerini, M., Péqueux, C., Raymond-Letron, I., Hoon Kim, S., Boudou, F., Blacher, S., Foidart, J.M., Katzenellenbogen, B.S., Katzenellenbogen, J.A., Arnal, J.F., and Lenfant, F. Genomic effects of estrogen receptor alpha (ER α) are required for angiogenesis to increase the growth of ER α -negative tumors. EMBO Meeting on Nuclear receptors: Linking molecules, genomes & physiology, Sorrente, Italy. Sept. 2013.
256. Zhao, Y., Gong, P., Chen, Y., Bagchi, M.K., Taylor, R.N., Nettles, K.W., Katzenellenbogen, J.A. and Katzenellenbogen, B.S. Suppression of Endometriosis by Targeting Estrogenic and Inflammatory Pathways: Studies in a Mouse Model. Illinois Symposium on Reproductive Sciences, Carbondale, IL, October 13-15, 2013.
257. Katzenellenbogen, B. S. Madak Erdogan, Z., Bergamaschi, A., Gong, P., and Katzenellenbogen, J. A. Integrative Genomics of Gene and Metabolic Regulation by Estrogen Receptors and Collaborating Partners. Keystone Symposium, Nuclear Receptors: Biological Networks, Genome Dynamics and Disease, Taos, NM, January, 2014.
258. Madak-Erdoğan, Z., El-Ashry, D., and Katzenellenbogen, B. S. ERK2 Functional Chromatin Footprints in Patient-Derived Breast Tumor Cells Predict Molecular Subtype, Clinical Outcome, and Drug Response in Breast Cancers, American Association for Cancer Research Annual Meeting, San Diego, CA, April 2014.
259. Zhao Y, Chen Y, Gong P, Bagchi MK, Taylor RN, Katzenellenbogen JA and Katzenellenbogen BS. Multiple Beneficial Roles of Repressor of Estrogen Receptor Activity (REA) in Suppressing Endometriosis Progression. ICE/ENDO 2014: The 16th International Congress of Endocrinology, Chicago, IL, June 2014.
260. Gong P, Madak-Erdoğan Z, Katzenellenbogen JA, Flaws J, and Katzenellenbogen BS. Cross-talk between the Aryl Hydrocarbon Receptor and Estrogen Receptor Mediates the Effects of Botanical Estrogens on Gene Expression, Cell Metabolism, and Behavior of Target Cells. ICE/ENDO 2014: The 16th International Congress of Endocrinology, Chicago, IL, June 2014.
261. Gong P, Madak- Erdoğan Z, Li J, Cheng J, Greenlief CM, and Katzenellenbogen BS. Transcriptome Analyses Reveal Distinct Patterns of Gene Regulation by Different Botanical Estrogens in Dietary Supplements. ICE/ENDO 2014: The 16th International Congress of Endocrinology, Chicago, IL, June 2014.
262. Katzenellenbogen BS, Madak- Erdoğan Z, Bergamaschi A, Gong P, and Katzenellenbogen JA. Estrogen Receptor Integrative Genomics and Signaling Networks in Breast Cancer and Endocrine Resistance. Plenary Lecture. Endocrine Society of Australia, Melbourne, Australia, August 2014.
263. Katzenellenbogen BS, Madak- Erdoğan Z, Bergamaschi A, Gong P, Chen Y, Zhao Y, Bindman N, and Katzenellenbogen JA. Estrogen Receptor Integrative Genomics and Signaling Networks in Breast Cancer and Endocrine Resistance. Cold Spring Harbor Meeting, Nuclear Receptors in Disease, October 2014.

264. Zhao Y, Li Q, Gong P, Chen Y, Lau LF, Nettles KW, Korach KS, Ko C, Taylor RN, Bagchi IC, Katzenellenbogen JA, Bagchi MK and Katzenellenbogen BS. Suppression of Endometriosis by Targeting the Estrogen-Angiogenesis-Inflammation Axis: Studies in a Mouse Model. The 3rd State Key Laboratory of Reproductive Biology (SKLRB) Symposium on Reproductive Biology, Beijing, China, October 2014.
265. Madak-Erdoğan Z and Katzenellenbogen BS. Systems Biology of Gene Regulation by Estrogen Receptors and Kinases in Breast Cancer. ENDO 2015: The 97th Annual Meeting & Expo, San Diego, CA, March 5-8, 2015.
266. Zhao Y, Chen Y, Bagchi MK, Taylor RN, Nettles KW, Katzenellenbogen JA, and Katzenellenbogen BS. Suppression of Endometriosis by Interrupting Crosstalk between the Endometriotic Lesion and the Host Immune System. ENDO 2015: The 97th Annual Meeting & Expo, San Diego, CA, March 5-8, 2015.
267. Madak-Erdoğan Z and Katzenellenbogen BS. Estrogen Receptor (ER) and ERK5 Signaling Collaborates to Modulate the Tumor Microenvironment in Breast Cancer. AACR 106th Meeting, Philadelphia, PA, April 2015.
268. Madak-Erdoğan Z. and Katzenellenbogen BS. Systems Biology of Gene Regulation by Estrogen Receptors and ERK5 Signaling in Breast Cancer. FASEB 2015 Meeting: “Molecular and Systems Integration of Genomic and Nongenomic Steroid Hormone Action” Big Sky, MT, Aug. 9-14, 2015.
269. Katzenellenbogen, J.A., Madak-Erdogan, Z., Kim, S.H., Tiwari-Woodruff, S., Katzenellenbogen, B.S., Multiple Modes for Selective Action of Diverse Ligands through the Estrogen Receptors, FASEB Meeting on Molecular and Systems Integration of Genomic and Nongenomic Steroid Hormone Action, August 9-14 2015, Big Sky, MT
270. Katzenellenbogen JA, Katzenellenbogen BS, Zhao Y, Josan JS, Pollock JA, Norris JD, McDonnell DP, and Tiwari-Woodruff S. Novel Ligands for Estrogen Receptor and Androgen Receptor Targeted Therapies. Keystone Meeting, Snowbird, Utah, Jan. 2016.
271. Chen K, Zhao YC, Hieronymi K, Katzenellenbogen JA, Katzenellenbogen BS, Madak-Erdoğan Z. Molecular Mechanisms of Low Affinity Estrogen Action in Obese Mouse Models. Keystone Meeting, Snowbird, Utah, Jan. 2016.
272. Zhao YC, Katzenellenbogen JA, Katzenellenbogen BS, Madak-Erdoğan Z. Prevention of Obesity-Related Breast Cancer using Pathway Preferential Estrogens. Keystone Meeting, Snowbird, Utah, Jan. 2016.
273. Madak-Erdoğan Z, Zhao YC, Chen K, Hieronymi K, Ki SH, Gong P, Zhang H, Chambliss KL, Shaul P, Katzenellenbogen JA, Katzenellenbogen BS, Wrobel K, Kulkoyluoglu E. Systems Biology of Gene and Metabolic Regulation by Estrogen Receptors and Kinases in Breast Cancer and Metabolic Disease. Keystone Meeting, Snowbird, Utah, Jan. 2016.
274. Christenson JL, Butterfield KT, Spoelstra NS, McDonnell DP, Norris J, Josan J, Pollock J4, Katzenellenbogen BS, Katzenellenbogen JA, Richer JK. MMTV-PyMT and the Met-1 derived line as immunocompetent models of androgen receptor-positive triple-negative breast cancer. Keystone Meeting, Snowbird, Utah, Jan. 2016.
275. Selvaraj UM, Plautz E, Chambliss K, Kong X, Rovinsky S, Zhang S, Tegene M, Ortega SB, Mineo C, Katzenellenbogen BS, Katzenellenbogen JA, Kim SH, Shaul P, Stowe AM. Selective Non-Nuclear Estrogen Receptor Activation Decreases Stroke Severity and Promotes Functional

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- Recovery after Stroke in Mice. 9th International Symposium on Neuroprotection and Neurorepair (ISN&N), Leipzig, Germany, April 19-22, 2016.
276. Katzenellenbogen BS. Estrogen Receptor Genomics and Signaling Pathway and Microenvironment Rewiring in Breast Cancer and Endocrine Resistance. ENDO 2016: The 98th Annual Meeting & Expo, Symposium Talk, Boston, MA, April 1-4, 2016.
277. Katzenellenbogen BS, Zhao Y, and Madak-Erdogan Z. TSEC Studies in Endometriosis and in Breast Cancer. Estrogens, SERMs, and TSECs Scientific Advisory Meeting, Clearwater Beach, FL, April 20-22, 2016.
278. Kim SH, Madak-Erdogan Z, Katzenellenbogen BS, Katzenellenbogen JA. Selective Activation of the Extranuclear-Initiated Functions of the Estrogen Receptor: A New Approach to Beneficial Patterns of Estrogen Action. American Chemical Society Meeting, Philadelphia, PA, Aug. 2016
279. Chambliss KL, Sacharidou A, Madak-Erdogan Z, Katzenellenbogen BS, Katzenellenbogen JA, Mineo C, Shaul PW. Metabolic Actions of Non-nuclear Estrogen Receptors. RRSB - Rapid Responses to Steroid Hormones. Richmond, VA November 2016
280. Selvaraj UM, Plautz EJ, Chambliss KL, Kong X, Rovinsky S, Zhang S, Mineo C, Katzenellenbogen BS, Katzenellenbogen JA, Kim SH, Shaul PW, and Stowe AM. Selective Non-Nuclear Estrogen Receptor Activation Decreases Stroke Severity and Promotes Functional Recovery After Stroke in Mice. Berlin Brain 2017 Meeting, Berlin, Germany, April 2017
281. Zhao Y, Guillen VS, Laws M, Ziegler Y, Gong P, Min J, Sharma A, Kim SH, Chu D, Park BH, Oesterreich S, Shapiro DJ, Nettles KW, Katzenellenbogen JA, and Katzenellenbogen BS. Constitutively Active Mutant Estrogen Receptors in Breast Cancer Show Differential Responsiveness to Structurally Novel Antiestrogens. ENDO 2017: The 99th Annual Meeting & Expo, Orlando, FL, April 1-4, 2017.

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Page 81 – Graduate Students and Postdoctoral Associates

Names and Positions of Former Graduate Students and Postdoctoral Associates

Ph.D. Students of Benita Katzenellenbogen

Gary Coffman	Ph.D. 1974	Professor, Department of Biology Webster University, St. Louis, MO
Evan R. Ferguson	Ph.D. 1976	Past Director, Sigma Xi Raleigh, NC (now deceased)
Hemlata Sehgal Bhakoo	Ph.D. 1976	Director, IVF Andrology Laborator 4510 Main Street, Snyder, NY
Roberta J. Navickis	Ph.D. 1978	Partner, Hygeia Associates, Biomedical Consulting Company, Grass Valley, CA
Warren N. Schmidt	Ph.D. 1978 M.D. 1989	Professor, Department of Internal Medicine, University of Iowa College of Medicine, Iowa City, Iowa
Richard L. Eckert	Ph.D. 1981	John F.B. Weaver, Professor and Chair, University of Maryland School of Medicine, Department of Biochemistry and Molecular Biology, Baltimore, MD
James R. Hayes	Ph.D. 1982 M.D. 1988	Adjunct Professor, Department of Ob-Gyn, Medical College of Wisconsin, and private practice, Milwaukee, WI
Lisa L. Wei Director	Ph.D. 1984	Special Advisor to the Office of the NEI (National Institutes of Health) Biotechnology Washington, DC
Alaka Mullick	Ph.D. 1986	Senior Scientist, Cancer Institute, University of Montreal Montreal, Canada
Yhun Yhong Sheen	Ph.D. 1986	Professor and Head of Dept., Ewa Women's University, Department of Pharmacology, Seoul, Korea
Thomas W. Toney	Ph.D. 1986	Professor, Department of Biology Georgia College Milledgeville, GA

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Kari L. Kendra	Ph.D. 1987 M.D. 1992	Professor in Hematology and Oncology, Ohio State University, Medical School, Columbus, OH
Jonathan F. Elliston	Ph.D. 1987	Biotechnology Patents, Baylor College of Medicine, Houston, TX
Ann M. Nardulli	Ph.D. 1987	Professor, Dept. of Molecular and Integrative Physiology, University of Illinois, Urbana, IL
Linnea R. (Read) Boyev	Ph.D. 1990, M.D. 1993	Adjunct Faculty, Division of Health and Sciences and School of Nursing, Oakton Community College, Des Plaines, IL
Joseph C. Reese, Jr.	Ph.D. 1992	Professor Dept. of Biochemistry & Molecular Biol., Pennsylvania State University, College Station, PA
Hyeseong Cho	Ph.D. 1992	Professor and Chairperson, Department of Biochemistry, Ajou University School of Medicine, Suwon, Korea
Susan M. Aronica	Ph.D. 1993	Professor and Head Dept. of Biology, Canisius College, Buffalo, NY (deceased 2016)
William Lee Kraus Green	Ph.D. 1994	Director and Professor, Cecil H & Ida Center for Reproductive Biology Sciences, Professor & Chair for Basic Science, Dept. of Ob/Gyn, Professor, Department of Pharmacology, University of Texas Southwestern Medical Center at Dallas, Dallas, TX
B. Avery Ince	Ph.D. 1994, M.D. 1997	Vice President, Clinical Development and Medical Affairs, Janssen Pharmaceuticals, Johnson & Johnson, Beijing, China
Mary E. Herman	Ph.D. 1995	Faculty member, Medical School Penang, Malaysia
Eileen M. McInerney	Ph.D. 1997	Research Scientist, UCSD, La Jolla, CA

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James A. Thomas	Ph.D. 2000	Research Scientist, AIDS Vaccine Program SAIC-Frederick, Inc. National Cancer Institute Frederick, MD
Tracy R. Ediger	Ph.D. 2002 M.D. 2003	Residency in Gastroenterology, Harvard Medical School, Boston, MA now Physician and Research, Pediatric Gastroenterology & Hepatology & Nutrition Nationwide Children's Hospital 700 Children's Dr., Columbus, OH
Jun Sun	Ph.D. 2002	Senior Scientist Braman Breast Cancer Institute Univ. of Miami Medical Center Miami, FL
Ramji R. Rajendran	Ph.D. 2002 M.D. 2005	Residency in Radiation Oncology, Univ. of Pennsylvania Medical Center, Philadelphia, PA, now Physician at Chicago Area Cancer Care, Radiation Oncology Consultants, Chicago, IL
Seongeun Park	Ph.D. 2004	Senior Scientist and Director of Core Laboratories Samsung Biomedical Research Institute School of Medicine, Sungkyunkwan University, Suwon, Korea
William Harrington	Ph.D. 2005	University of Toronto Toronto, Canada
Edmund Chang	Ph.D. 2007	Senior Scientist Baylor College of Medicine, Center for Gene Therapy, Genome Center, Houston, TX; now Scientist at Kite Pharma, Santa Monica, CA
Joshua Stender	Ph.D. 2007	Senior Scientist II, AbbVie Pharmaceuticals, Inc. North Chicago, IL
Shubin Sheng	Ph.D. 2007	Biostatistician Duke Clinical Research Institute, Raleigh-Durham, NC
Zeynep Madak-Erdogan	Ph.D. 2009	Assistant Professor University of Illinois, Department of Food Science and Human Nutrition

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BENITA S. KATZENELLENBOGEN

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Urbana, IL

Daniel Barnett	Ph.D. 2010 M.D. 2011	Resident in Radiation Oncology University of Wisconsin, Madison School of Medicine and Public Health Madison, WI
Shweta Bhatt	Ph.D. 2010	Director – Medical Innovation and Clinical Diagnostics, Daksh Med Ventures Inc., New Delhi, India
Cory Funk	Ph.D. 2010	Senior Scientist Institute for Systems Biology University of Washington, Seattle, WA
Kyuri Kim	Ph.D. 2011	Postdoctoral Scientist Stanford Research Institute (SRI) International, Palo Alto, CA
Sung-Hee Park	Ph.D. 2011	Postdoctoral Scientist DOD Postdoctoral Breast Cancer Fellowship Duke University Medical Center Dept of Pharmacology & Cancer Biology Chapel Hill, NC
Nittaya Boonmuen	Ph.D. 2016	Ph.D. Department of Physiology, Mahidol University, Rama 6 road, Bangkok 10400 Thailand
Valeria Sanabria Guillen	2016 -	BS 2015 Brown University

M.S. Students of Benita Katzenellenbogen

Mary LeNoble Schrage	M.S. 1978	High School Science Teacher, Columbia, MO
Mark A. Kneifel	M.S. 1980	Veterinary Medical Group Practice, Wappingers Falls, NY
Norman Peterson	M.S. 1985	University of Washington Veterinary Medical School, Seattle, WA; Clinical Practice
Jeffrey Duncan	M.S. 1987	Scientist, Merck, Sharp & Dohme, Saint Louis, MO

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Kimberly McMahon Hines	M.S. 1988	Senior Scientist, Pierce Chemical Company, Rockford, IL
Caroline Koppi	M.S. 1989 M.D. 1993	University of Illinois Medical School, Chicago, IL; Clinical Practice
Peter A. Ng	M.S. 1991	Unknown
Henry Fang	M.S. 1992 M.D. 1996	M. D. Medical Practice Los Angeles, CA
Heather Herbolsheimer	M.S. 1994	Medical Student, Chicago, IL
Chih-Yang Huang	M.S. 1995	Assistant Professor, Taiwan
Anne Keller	M.S. 1995	Research Associate, Abbott Laboratories, North Chicago, IL
Emily Gramling	M.S. 1997	Research Associate, Northwestern University Med. School, Chicago, IL

Postdoctoral Associates and Visiting Scientists of Benita Katzenellenbogen

Nancy L. Lan	1974-1976	(Ph.D., Kent State University) Associate Professor, Cal. Tech., Department of Pharmacology, Pasadena, CA
Ten-lin S. Tsai	1975-1978	(Ph.D., University of Illinois) Senior Scientist, Argonne National Laboratory, Batavia, IL
Edward J. Pavlik	1976-1979	(Ph.D., University of Tennessee) Prof., Dept of Ob/Gyn, Director, Basic Research in Gyn Oncology, Chandler Medical Center, University of Kentucky, Lexington
Tochiro Tatee	1978-1980	(Ph.D., Japan) Research Chemist, Takada Chemical Co., Tokyo, Japan
Ellen A. Rorke	1980-1983	(Ph.D., University of California, Riverside) Professor, Department of Environmental Health Sciences, Case Western Reserve University, Cleveland, OH
James R. Hayes	1982-1983	(Ph.D., University of Illinois, Urbana, M.D. Creighton Medical College) Adjunct Professor, Department of Ob/Gyn,

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		Medical College of Wisconsin, Milwaukee, and Group Practice in Ob/Gyn
Katsuichi Sudo	1982-1984	(Ph.D., Japan) Head, Biology Department, Takeda Pharmaceutical Company, Osaka, Japan
Margaret A. Miller	1982-1985	(Ph.D., University of Wisconsin, Madison), Office on Women's Health, U.S. Food and Drug Administration, Rockville, MD
Georg C. A. Reiner	1983-1985	(M.D., University of Vienna) and 1987 Professor, Department of Surgery, University of Vienna Medical School, Austria
Yolande Berthois	1985-1987	(Ph.D., University of Marseilles, France), Research Scientist, Laboratoire de Cancerologie experimentale, Faculte de Medicine Secteur Nord, Marseilles, France
Angelika Reiner	1987	(M.D., Austria) s Professor, Department of Pathology, University of Vienna Medical School, Austria
Christine A. Weaver	1986-1987	(Ph.D., University of Illinois, Carle Clinic Physician and Head Genetics Laboratory, Urbana, IL
Catherine E. Snider	1986-1988	(Ph.D., Ohio State University) Senior Scientist, Proctor and Gamble, Cincinnati, OH
Kenneth W. Harlow	1988-1990	(Ph.D., University of Illinois) Associate Professor, Institute for Biochemical Genetics, University of Copenhagen, Denmark
Carol K. Wrenn	1988-1992	(Ph.D., University of Indiana) Senior Scientist, Eastman-Kodak, Rochester, NY
Cynthia H. Wooge	1989-1992	(Ph.D., University of Iowa) Senior Scientist, Sigma Chemical Co., St. Louis, MO

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Farzad Pakdel	1989-1991	(Ph.D., University of Rennes, France), Professor, University of Rennes, France
Pascale LeGoff	1990-1992	(Ph.D., University of Rennes, France) Associate Professor, University of Rennes, France
Volkmar Müller	1993	(M.D., University of Hamburg Medical School, Hamburg, Germany) Associate Professor, Gynecological Oncology, University of Hamburg Medical Center, Hamburg, Germany
Nariaki Fujimoto	1992-1994	(Ph.D., Hiroshima University Japan) Professor, Hiroshima Univ. Cancer Research Institute, Japan
Bhavna Bhardwaj	1992-1995	(M.D., Postgraduate Institute of Medical Education and Research, India), University of Florida, Gainesville, Cancer Center
David Schodin	1992-1996	(Ph.D., University of Illinois) Biotechnology Patents, Leydig, Voit and Mayer, Chicago, IL
Monica Montano	1993-1998	(Ph.D., University of Missouri) Professor, Dept. of Pharmacology, Case Western Reserve Univ., Cleveland, Ohio
Kirk Ekena	1994-1998	(Ph.D., University of Oregon) Director of Intellectual Property at Arrowhead Research Corporation, Madison, WI
Gwendal Lazennec	1996-1998	(Ph.D., University of Rennes, France), Associate Professor, INSERM U148, “Hormones and Cancer”, Montpellier, France
Dennis M. Kraichely	1999-2000	(Ph.D., St. Louis University School of Medicine, MO), Associate Director, CMC Team Leader Portfolio Management & Technical Integration, Johnson & Johnson Pharmaceutical Research & Development, Malvern, PA
Regis Delage-Mourroux	1998-2000	(Ph.D., University Pierre et Marie Curie and INSERM Unit 139, Paris, France),

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		Associate Professor, University of France - Comte, Besancon, France
Inho Choi	1996-2001	(Ph.D., University of Florida) Professor, Yeungnam University, Kyungsan City, Korea
Paolo Martini	1998-2001	(Ph.D., University of Milan, Italy) Chief Scientific Officer, Head of Discovery,,Elpidera Moderna Therapeutics, Cambridge, MA
Rashna D. Balsara	2000-2002	(Ph.D., University of Bombay, India), Research Scientist, Keck Transgene Center, Notre Dame University, IN
Deshanie Ganessunker Rai	2000-2003	(Ph.D, University of Illinois at Urbana-Champaign), Senior Associate Director, Bayer HealthCare, Whippany, NJ
Jonna Frasor	2001-2005	(Ph.D., University of Illinois at Chicago), Professor, Dept. of Physiology and Biophysics, University of Illinois College of Medicine, Chicago, IL
Fabio Stossi	2002-2011	(Ph.D., University of Milan, Italy), Assistant Professor, Baylor College of Medicine, Dept. of Molecular & Cellular Biology, Houston, TX
P. Mangala Gowri	2003-2008	(Ph.D., University of Cincinnati Medical Center), Visiting Research Scholar
Surojeet Sengupta	2003-2006	(Ph.D., Central Drug Research Institute, Lucknow, India), Senior Scientist, Georgetown University Medical School, Lombardi Cancer Center, Washington, DC
Seongeun Park	2004-2006	(Ph.D., University of Illinois at Urbana-Champaign), Director, Research Core Laboratory, Samsung Biomedical Research Institute, School of Medicine, Sungkyunkwan University, Suwon, Korea
Chang-Hun Lee	2007-2009	(Ph.D., Seoul National University, Seoul, Korea), Senior Scientist, Department of Biochemistry, University of Wisconsin, Madison

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Anna Bergamaschi	2007-2013	(Ph.D., Institute for Cancer Research, Norwegian Radium Medical Center, Oslo, Norway), Senior Research Scientist, Genomic Health, Inc., Redwood City, CA
Yuechao Zhao	2008-	(Ph.D., Northeast Agricultural University, Harbin, China), Postdoctoral Scientist
Zeynep Madak-Erdogan	2009-2014	(Ph.D., University of Illinois, Urbana, IL), Assistant Professor, Department of Food Science and Human Nutrition, University of Illinois at Urbana - Champaign
Yan Jiang	2010-2012	(M.D./Ph.D., Purdue University, West Lafayette, IN), Medical Residency, New York University Medical Center, NY
Man-Sau Wong	Summer 2011	Visiting Professor from The Hong Kong Polytechnic University, Hong Kong
Ping Gong	2011-2016	(Ph.D., Illinois State University, Bloomington, IL; Postdoc, Univ. of Chicago) Current Research Scientist
Hailing Lu	2012-2013	(M.D., Harbin Medical University, Harbin, China) Visiting Research Scientist Currently Staff Physician and Scientist, Harbin Medical University, Medical Oncology, Harbin, China
Wenwen Lu	2013-2015	(Ph.D., Institute of Epigenetics & Cancer Research School of Medicine, Tsinghua University, Beijing, China), Postdoctoral Scientist
Yiru Chen	2013-2015	(Ph.D., Univ. of Michigan), Postdoctoral Scientist
Jean-Francois Arnal, MD, Ph.D.	2015, Oct-Nov.	Visiting Professor from INSERM Université de Toulouse III, Toulouse, France