

## CURRICULUM VITAE

### JONATHAN J. LI, Ph.D.

Hormonal Oncogenesis Laboratory  
Department of Pharmacology, (913) 588-4760, -4744 (Office)  
Toxicology and Experimental Therapeutics (913) 588-4740 (Fax)  
University of Kansas Medical Center jli1@kumc.edu  
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3901 Rainbow Boulevard, Mail Stop 1018  
Kansas City, KS 66160-7158

#### BIRTH PLACE

New York, New York

#### MARITAL STATUS

Sara Antonia Li, Ph.D.

#### OFFSPRING

Christopher I. Li, M.D., Ph.D.  
Fred Hutchinson Cancer Center  
Seattle, WA

Stephanie S. Li, MFA, Ph.D.  
University of Rochester  
Rochester, NY

#### EDUCATION

INSTITUTION	DEGREE	YEAR	FIELD
The New Hampton School New Hampton, New Hampshire	H.S.	1957	----
Brown University Providence, Rhode Island	A.B.	1962	Chemistry Philosophy
Columbia University New York, New York	----	1963- 1964	Cell Physiology Endocrinology
Stanford University Stanford, California	----	1965- 1967	Anatomy Cell Biology
State University of New York Syracuse, New York	Ph.D.	1968- 1971	Pharmacology

**PROFESSIONAL EXPERIENCE**

Department of Biological Chemistry  
Laboratory of Human Reproduction  
and Reproductive Biology  
Harvard Medical School  
Boston, Massachusetts

**Position: Research Fellow, 1971-1974**

Medical Research Laboratories  
Research and Endocrine Sections  
Veterans Administration Medical Center  
Minneapolis, Minnesota

**Position: Assistant Director, SDTU, 1974-76**

**Senior Research Scientist, 1976-1990**

**Director, Hormonal Carcinogenesis Laboratory, 1983-1990**

Department of Pharmaceutical Sciences  
School of Pharmacy  
Washington State University  
Pullman, Washington

**Position: Dorothy Otto Kennedy Distinguished Professor, 1990-1993**

**Director, Hormonal Carcinogenesis Laboratory, 1990-1993**

**Director, Cancer Prevention Research Center, 1992-1993**

**Associate of the Program in Genetics and Cell Biology 1991-1993**

Division of Etiology and Prevention of Hormonal Cancers  
Kansas Cancer Institute  
University of Kansas Medical Center  
Kansas City, Kansas

**Position: Director, 1993-2003**

**Professor, Department of Pharmacology, Toxicology and Therapeutics, 1993-**

**Director, Breast Tumor & Serum Repository Core Facility, 1994-2003**

## SOCIETY MEMBERSHIPS

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

## REFEREED JOURNAL REVIEWS

American J. Physiology    Breast Cancer Research & Treatment  
                                   Cancer Letters    Cancer Research  
                                   Carcinogenesis    Clinical Cancer Research  
 Chemical Research in Toxicology    Chemico-Biological Interactions  
                                   Comparative Biochemistry and Physiology  
                                   Differentiation    Endocrinology  
                                   European J. Cancer & Clinical Oncology  
                                   Food & Chemical Toxicology  
                                   J. Biological Chemistry    J. Cellular Physiology  
                                   J. Investigative Urology    J. Medicinal Chemistry  
                                   J. National Cancer Institute  
                                   J. Pharmacology & Experimental Therapeutics  
                                   Molecular Pharmacology    Mutation Research  
                                   Oncogene    Preventive Medicine  
                                   Proceedings National Academy Sciences, USA  
                                   Toxicology and Applied Pharmacology

## EDITORIAL BOARDS

### Editor-in-Chief

J. Hormones and Oncogenesis  
 Springer, NY, 2009-

Board of Advisors, Journal of Women's Health, 1992-1997  
 Springer Verlag, N.Y., 1991, 1995, 1998, 2003, 2008

## TEACHING

### UNIVERSITY OF MINNESOTA

Pharmacology 5106 Toxicology, 1975  
Chemical Carcinogenesis, Mutagenesis, Teratogenesis

Medicine 5523, 1976-77  
Endocrinology, Metabolism, Clinical Pharmacology  
Reproductive Endocrinology

Urologic Surgery 8257, 1982-85  
Selected Topics on the Genitourinary System,  
**Course Director**, Antibiotics, Antihypertensive Agents, Antineoplastic Drugs,  
Diuretics, Hormonal Agents, Chemical Carcinogenesis

### WASHINGTON STATE UNIVERSITY

Pharmacy 444 (Undergraduate), 1991, 1992  
6 Lectures - Endocrine (Steroid Hormones)

Pharmacy 501 (Graduate), 1990-1993  
Concepts of Pharmacology and Toxicology  
Carcinogenesis/Chemoprevention

**Course Director, Pharmacology/Toxicology 565 (Graduate), 1992-1993**  
Mutagenesis and Carcinogenesis  
Cell Cycle, Cell Proliferation in Initiation,  
Chemical and Hormonal Carcinogenesis, and Chemoprevention

### UNIVERSITY OF KANSAS MEDICAL CENTER

Reproductive Physiology 808 (Graduate), Hormonal Cancers, 1994  
Medical Pharmacology 850 (Medical), Chemotherapy, Endocrine, Environmental  
Toxicology, 1995-  
Pharmacology / Pathology (Graduate, Medical, Residents), 1997, 1999, 2001. 2003  
**Course Director, Carcinogenesis and Cancer Biology**

## VISITING PROFESSOR

Tumor Biology Course, 1985  
 Departments of Pharmacology and Therapeutics and Pathology,  
 J. Hillis Miller Health Center,  
 University of Florida, Gainesville, Florida

Visiting Professor, August 1989  
 Institute for Pharmacology and Toxicology  
 University of Wurzburg, Wurzburg, FR Germany

## TRAINING

### FACULTY MENTORSHIP

COBRE Mentor (cancer research) to Annelise Nguyen, Ph.D. Assistant Professor  
 College of Veterinary Medicine, Kansas State University, Manhattan, KS,  
 (2005-present)

### RESEARCH FELLOWS & ASSOCIATES

	Years	Field	University
Shyun-Long Yun, Ph.D.	1977-79	Biochemistry	State University of NY
John K. Klicka, Ph.D.	1979-88	Physiology	University of Illinois
Stephen Ortlip, M.D.	1980-81	Urologic Surgery	University of Minnesota
Heidemarie Haaf, Ph.D.	1985-90	Pharm/Tox	University of Wurzburg GERMANY
Michael McCormick, Ph.D.	1989-90	Biochemistry	University of Iowa
Jacqueline Bentel, Ph.D.	1989-91	Exper. Pathol/ Mol. Biology	University of New South Wales, AUSTRALIA
Xue Yan, M.D., M.S.	1990-91	Endocrinology	Tianjin Medical College, PR CHINA
Sushanta Banerjee, Ph.D.	1990-94	Cytogenetics	University of Calcutta, INDIA
Snigdha Banerjee, Ph.D.	1990-93	Cytogenetics	University of Calcutta, INDIA
Xiaoying Hou, M.D.	1994-98	Mol. Biology	Tianjin Med. College Tianjin, PR CHINA
D-Z. Joshua Liao, M.D., Ph.D.	1996-98	Mol. Biology	First Military Medical Univer. Karolinska Institute Novum Stockholm, SWEDEN
Shan Bai, M.D.	1996-98	Mol. Biology	Institute of Gerontology General Army Hospital Beijing, PR CHINA

**RESEARCH FELLOWS & ASSOCIATES, CONTINUATION**

	Years	Field	University
Dan Papa, Ph.D.	2000-04	Molecular Genetics	Kansas State University
Ilan Shanmugam, Ph.D.	2004-05	Cancer Biochemistry	University of Madras, Tamil Nadu, India

**M.S. & PH.D. GRADUATE STUDENTS**

Wen-Biao Chen, M.S.	1991-93	Gen/Cell Biology	Washington State University
S. John Weroha, Ph.D./M.D. (Honors Graduate)	2000-05	Pharmacology (Molecular Endocrinology/Cytogenetics)	Univ. of KS Medical Center
Adrienne Hontz, Ph.D. (Honors Graduate)	2004-08	Pharmacology	Univ. of KS Medical Center

**PH.D. DISSERTATION COMMITTEE**

Allison Draper, Pharmacology, KU Medical Center, 1995-1996  
 Alan Hood, Pharmacology, KU Medical Center, 1993-1997  
 Bryan Henry, Pharmacology, KU Medical Center, 1994-1997

**COMMITTEE MEMBER**

**National Institutes of Health  
 American Cancer Society  
 United States Army Medical Research and Material Command  
 California Breast Cancer Program**

Member Site Visit Committee, Ad Hoc, Clinical Cancer Program  
 Project Review. **NCI/NIH**,  
 University of Illinois, Chicago, IL, 1983.

Member Site Visit Committee, Ad Hoc, Cancer Therapeutics Program  
 Project Review, **NCI/NIH**,  
 Rockefeller University, New York, NY, 1984.

Member, Special Study Section, Innovative Approaches to  
 Development of Cancer Chemopreventive Agents, **NCI/NIH**,  
 Chevy Chase, MD, 1985

Member, Ad Hoc Review Committee, Biometry and Risk Assessment Program,  
Biochemical Risk Analysis Laboratory,  
**National Institute of Environmental Health Sciences (NIEHS), NIH,**  
Research Triangle Park, NC, 1986

Standing Member, Board of Scientific Counselors, Division of  
Biometry and Risk Assessment (DBRA),  
**National Institute of Environmental Health Sciences (NIEHS), NIH,**  
Research Triangle Park, NC, 1987-1991

Member Site Visit Committee, Ad Hoc, Contracts Review Branch  
**NCI/NIH,** University of Arkansas, Little Rock, AR, 1988

Member, Special Review Committee, Tumor Biology Program Project  
**NCI/NIH,** Bethesda, MD, 1988

Member, Advisory Committee on Carcinogenesis and Nutrition  
**American Cancer Society,** Atlanta, GA, 1989

Member, Endocrinology 1 Panel  
**United States Army Medical Research and Material Command**  
Breast Cancer Research Peer Review, Arlington, VA, 1994

Member, Ad hoc, Comparative Medicine Special Review Committee Study Section  
**NIH,** Chevy Chase, MD, 1995

Member, Ad hoc, Cancer Centers and Research Programs Review Committee-A  
**NCI/NIH,** University of Colorado Cancer Center, Denver, CO 1995  
Hyatt Regency Bethesda, Bethesda, MD, 1995

Member, Endocrinology 1 Panel  
**United States Army Medical Research and Material Command**  
Breast Cancer Research Peer Review, Hunt Valley, MD, 1995

Member, Endocrinology 1 Panel  
**United States Army Medical Research and Material Command**  
Breast Cancer Research Peer Review, Arlington, VA, 1996

Member, Research with Translational Potential - B (RTP-B)  
**United States Army Medical Research and Material Command**  
Breast Cancer Research Peer Review, Arlington, VA, 1996

Member, Ad Hoc, Cancer Centers and Research Programs Reviews Committee  
**NCI/NIH**, Oregon Cancer Center,  
Oregon Health Sciences University, Marriott Suites, Bethesda, MD, 1996  
Hyatt Regency Bethesda, Bethesda, MD, 1996

Member, Basic Breast Biology Review Committee  
California Breast Cancer Research Program, **University of California**  
Park Hyatt Hotel, San Francisco, CA, 1997

Member, Special Review Site Visit Committee  
Chemical and Physical Carcinogenesis Branch  
**NCI/NIH**, MD Anderson Cancer Center,  
Science Park, Austin/Smithville, TX, 1997

Member Ad hoc, Metabolic Pathology Study Section  
**NCI/NIH**, Alexandria, VA, 1998

Member Ad hoc, Metabolic Pathology Study Section  
**NCI/NIH**, Bethesda, MD, 1998

Member Ad-hoc, Cancer Centers and Research Programs Review Committee-A  
**NCI/NIH**, University of Colorado Cancer Center, Denver, CO, 2000

Member, RFA DK-01-008 Special Review Committee  
Role of Hormones and Growth Factors in Prostate Cancer  
**NCI/National Institute of Diabetes and Digestive and Kidney Diseases**  
Arlington, VA, 2001

Member, Kidney and Bladder Progress Review Group (PRG)  
IA Etiology and Pathogenesis Group, **NCI/NIH**  
Westfields Marriott International Conference Center, Chantilly, VA, 2001

Member ad hoc, Subcommittee C - Basic and Preclinical Site  
Visit Committee NCI-CGRB-O(Q5) PO1  
NCI/NIH, Emory University, Atlanta, GA, 2002  
Member ad hoc, Metabolic Pathology Study Section  
NCI/NIH, VA, 2002

Member, NCI Initial Review Group: Subcommittee C  
Basic & Pre-clinical, Cancer Therapeutics PO1 Cluster  
NCI/NIH, Bethesda, MD, 2004

Member ad hoc, Carcinogenesis and Chemoprevention  
Oncological Sciences Group, SEP  
NCI/NIH, Bethesda, MD, 2006

Member ad hoc, Prevention, Control and Population Group,  
SEP, PO-1 Cluster  
NCI/NIH, Bethesda, MD, 2006

Reviewer, Spore in Lymphoma, Prostate, Breast, and Skin  
Cancer Special Emphasis Panel, 7P50  
NCI/NIH, Hyatt Regency Bethesda, Bethesda, MD  
June 10-12, 2007

Reviewer, Spore in Lymphoma, Myeloma, Pancreas, GI, H&N,  
and Lung Cancers  
NCI/NIH, Bethesda Marriott, Pooks Hill, Bethesda, MD  
February 12-14, 2008

Reviewer, Cancer Prevention Research Training Program  
External Review Committee  
University of Texas, MD Anderson Cancer Center, Houston, TX  
July 30, 2008

## CONSULTATIONS

Consultant, Food and Drug Administration (FDA), Washington,  
DC, DES Toxicity and Carcinogenicity, 1985

Consultant, Legal, Crosby, Heafey, Roach, and May (Eli  
Lilly & Co.), Oakland, CA. DES Carcinogenicity, 1985

Consultant, Legal, Day, Berry, and Howard (Aetna Co.), Hartford, CT.  
DES Carcinogenicity and Transplacental Toxicity, 1986

Consultant, Legal, Williams and Connolly, LLP (Wyneth-Ayerst)  
Washington, D.C., ERT, HRT, Premarin, 2005, 2006, 2007

## VETERANS ADMINISTRATION AFFAIRS

President, Association V.A. Scientists (AVAS), Minneapolis Chapter, 1979-80  
Secretary, National Association V.A. Scientists (NAVAS), 1980-90  
Research & Development (R & D) Committee, 1986-89  
Performance Award, Outstanding, VAMC, 1985, 1986

## COLLEGE & UNIVERSITY COMMITTEES

### WSU

Promotion & Tenure Committee, College of Pharmacy 1990, Chairman 1991-92  
Curriculum Committee, College of Pharmacy, 1992-93  
Electron Microscopy Center Advisory Committee, 1991-93  
Division of Sciences, Life Sciences Advisory Committee,  
Promotion & Tenure Committee, 1991-93  
President's Honorary Doctoral Degrees Committee, Chairman, 1992-93

### KUMC

Senior Leadership, KU Cancer Center, 1993-1994  
Cancer Center Advisory Committee, 1995-1999  
Vice Chancellor's Research Strategic Planning Committee, 1995  
EM Research Laboratory Advisory Committee, 1995-2005

## GORDON RESEARCH CONFERENCES

Founder & Co-Chairperson

First Biennial Gordon Research Conference on Hormonal Carcinogenesis,  
The New Hampton School, New Hampton, NH, August 25-30, 1985

Chairperson

Second Biennial Gordon Research Conference on Hormonal Carcinogenesis  
The New Hampton School, New Hampton, NH, August 3-8, 1987

Session Chair and Symposium Review Speaker

Fourth Biennial Gordon Research Conference on Hormonal Carcinogenesis  
Colby-Sawyer College, New London, NH, July 28-August 2, 1991

Session Chair

Fifth Biennial Gordon Research Conference on Hormonal Carcinogenesis,  
Salve Regina College, Newport, RI, August 9-13, 1993

Session Chair

Seventh Biennial Gordon Research Conference on Hormonal Carcinogenesis  
The Tilton School, Tilton, NH, July 27-August 1, 1997

Speaker

Eight Biennial Gordon Research Conferences on Hormonal Carcinogenesis  
The Tilton School, Tilton, NH, August 1-6, 1999

## INTERNATIONAL HC SYMPOSIA

Chairperson

First International Symposium on Hormonal Carcinogenesis  
Hyatt Regency Cancun, Cancun, **Mexico**, March 19-22, 1991

Chairperson

Second International Symposium on Hormonal Carcinogenesis  
Karolinska Institute Stockholm, **Sweden**, July 5-10, 1994

Chairperson

Third International Symposium on Hormonal Carcinogenesis  
Fred Hutchinson Cancer Center, Seattle, WA, September 6-12, 1998

Chairperson

Fourth International Symposium on Hormonal Carcinogenesis  
University of Valencia Cancer Center, Valencia, **Spain**, June 21-25, 2003

Vice-Chairperson, Executive Board

Fifth International Symposium on Hormonal Carcinogenesis  
La Grande Motte Congress Center, Montpellier, **France**, September 10-13, 2006

Vice-Chairperson, Executive Board

Sixth International Symposium on Hormonal Oncogenesis  
Tokyo, **Japan**, 2010

### CITATIONS

Marquis Who's Who in Frontier Science & Technology  
1st and 2nd Editions, Chicago, IL, 1984-85, 1985-86

American Men and Women of Science  
R.R. Bowker, Reed Elsevier, Inc.  
Oldsmar, FL, 1996

International Who's Who of Professionals  
Jacksonville, NC, 1999

Marquis Who's Who in Medicine and Healthcare, 2002

## GRANTS AWARDED

**Source of Support:** NIH [NCI] Grant No. 1 RO1 CA 16854 (01-03)  
**Project Title:** *Studies on Renal Cell Cancer in the Hamster and Human*  
**Total Project Period:** 09/01/74 to 08/31/77  
**Total Direct Cost:** \$ 151,420 Co-PI: Jonathan J. Li

**Source of Support:** Veterans Administration, Merit Review Board  
**Project Title:** *Role of Hormones on Renal Cell Cancer in the Hamster and Human*  
**Total Project Period:** 01/01/74 to 12/31/77  
**Total Direct Cost:** \$ 142,387 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 1 RO1 CA 22008 (01-03)  
**Project title:** *Estrogen Carcinogenicity and Hormone Dependent Tumors*  
**Total Project Period:** 09/01/77 to 08/31/80  
**Total Direct Cost:** \$ 188,548 PI: Jonathan J. Li

**Source of Support:** Veterans Administration, Merit Review Board  
**Project Title:** *Role of Hormones and Drugs on Renal Cell Cancer in the Hamster and Human*  
**Total Project Period:** 01/01/78 to 12/31/81  
**Total Direct Cost:** \$ 81,944 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 1 RO1 CA 22008 (04-06)  
**Project Title:** *Estrogen Carcinogenicity and Hormone Dependent Tumors*  
**Total Project Period:** 09/01/80 to 01/31/84  
**Total Direct Cost:** \$ 191,446 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 1 RO1 CA 22008-S1 (04-06)  
**Project Title:** *Estrogen Carcinogenicity and Hormone Dependent Tumors*  
**Total Project Period:** 09/01/81 to 01/31/84  
**Total Direct Cost:** \$ 46,760 PI: Jonathan J. Li

**Source of Support:** American Cancer Society [ACS], Institutional  
**Project Title:** *Estrogen-Induced Liver Neoplasms in the Syrian Hamster: A New Tumor Model*  
**Total Project Period:** 01/01/81 to 12/31/81  
**Total Direct Cost:** \$ 2,000 Co-PI: Jonathan J. Li



**Source of Support:** NIH [NCI] Grant No. 5 R01 CA 58030 (01-05)  
**Project Title:** *Molecular/Cytogenetics of Estrogen-Induced Renal Neoplasia*  
**Total Project Period:** 08/07/92 to 11/30/97  
**Total Direct Cost:** \$ 703,762 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 1 R55 CA 56966-01 (01-02) Shannon Award  
**Project Title:** *Ethanol and Estrogen Carcinogenicity in Hamster Kidney*  
**Total Project Period:** 09/01/92 to 08/31/93  
**Total Direct Cost:** \$ 80,000 Co-PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 1 R01 CA 64047 (01-03)  
**Project Title:** *Ethanol and Estrogen Carcinogenicity in Hamster Kidney*  
**Total Project Period:** 10/01/93 to 09/29/96  
**Total Direct Cost:** \$ 236,396 Co-PI: Jonathan J. Li

**Source of Support:** Masonic Oncology Foundation  
**Project Title:** *Hormonal Carcinogenesis*  
**Total Project Period:** 10/01/93 to 09/30/94  
**Total Direct Cost:** \$ 180,000 PI: Jonathan J. Li

**Source of Support:** US Army Medical Research and Material Command (Breast Cancer)  
**Project Title:** *University of Kansas Cancer Center, Breast Tissue and Serum Repository Core Facility*  
**Total Project Period:** 10/01/94 to 09/30/99  
**Total Direct Cost:** \$ 404,369 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. 5 R01 CA 58030 (06-08)  
**Project Title:** *Molecular Cytogenetics of Estrogen-Induced Renal Neoplasia*  
**Total Project Period:** 12/01/97 to 11/30/01  
**Total Direct Cost:** \$ 564,572 PI: Jonathan J. Li

**Source of Support:** MRI/KUMC  
**Project Title:** *Promotion of Estradiol-induced Breast Cancer in Female ACI Rats by Ethanol*  
**Total Project Period:** 01/01/01 to 12/31/01  
**Total Direct Cost:** \$ 20,000 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant No. RO1 CA 87591 (01-04)  
**Project Title:** *Genomic Instability in Estrogen-induced Rat Breast Cancer*  
**Total Project Period:** 03/01/00 to 02/28/04  
**Total Direct Cost:** \$ 572,000 Co-PI: Jonathan J. Li  
 PI: Sara Antonia Li

**Source of Support:** NIH [NCI] Grant No. 5RO1 CA 102849 (01-05)  
**Project Title:** *Genomic Instability and Etiology of Estrogen Oncogenesis*  
**Total Project Period:** 10/01/04-11/30/09  
**Total Direct Cost:** \$ 1,250,000 (Active) PI: Jonathan J. Li

**Source of Support:** Friends for an Earlier Breast Cancer Test  
**Project Title:** *Centrosomal Biomarkers for the Early Detection of Human Breast Cancer*  
**Total Direct Cost:** \$ 40,000 (Active) PI: Jonathan J. Li

**Source of Support:** Susan G. Komen Foundation  
**Project Title:** *Prevention of Early Pre-malignant Breast Lesions by an Aurora Kinase Inhibitor during Estrogen-induced ACI Rat Breast Oncogenesis*  
**Total Project Period:** 05/01/06 – 4/30/09  
**Total Direct Cost:** \$ 250,000 (Active) PI: Jonathan J. Li

**Source of Support:** Susan G. Komen Foundation  
**Project Title:** *Use of a Panel of Mitotic Kinase Antibodies to Predict Pre-malignancy Outcomes in Human Breast Cancer*  
**Total Project Period:** 05/01/06 – 4/30/08 PI: Sara Antonia Li  
**Total Direct Cost:** \$ 250,000 (Active) Co-PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant (10156428). Pending  
**Project Title:** *Combined Aurora A and MDM2 in Breast Cancer Prevention and Treatment*  
**Total Direct Cost:** \$ 1,250,000 PI: Jonathan J. Li

**Source of Support:** NIH [NCI] Grant (01-02) R-21. Pending  
**Project Title:** *Transformation of Estrogen-driven Murine Mammospheres by Transfection of Over-expressed Oncogenes*  
**Total Direct Cost:** \$ 275,000 Co-I: Jonathan J. Li  
 PI: Sara Antonia Li

## PUBLICATIONS

1. **Li, J.J.**, H. Kirkman, R.L. Hunter. Sex Difference and Gonadal Hormone Influence on Syrian Hamster Kidney Esterase Isozymes. **J. Histochem. Cytochem.**, 17:386-393, 1969.
2. Biezenski, J.J., J. Carrozza, **J.J. Li**. Role of Placenta in Fetal Metabolism. III. Formation of Rabbit: Plasma Phospholipids. **Biochem. Biophys. Acta**, 239:92-97, 1971.
3. **Li, J.J.** NADP-Malic Enzyme. In-Vitro Interspecies Hybridization of Rat and Hamster Liver Enzymes: Evidence for an Isologous Tetrameric Structure. **Arch. Biochem. Biophys.**, 150:812-814, 1972.
4. **Li, J.J.**, D.J. Talley, S.A. Li, C.A. Vilee. An Estrogen Binding Protein in the Renal Cytosol of the Intact, Castrated, and Estrogenized Golden Hamsters. **Endocrinology**, 95:1134-1141, 1974.
5. Pantic, V., **J.J. Li**, C. Vilee. Autoradiographic Studies of the Kidneys of Hamsters Bearing Long Term Oestrogen Implants. **Cytobiologie**, 9:89-99, 1974.
6. **Li, J.J.**, C.R. Ross, H.M. Tepperman, J. Tepperman. Purification, Some Properties, and Immunochemical Studies on Rat Liver NADP-Malic Enzyme. **J. Biol. Chem.**, 250:141-148, 1975.
7. Letourneau, R.J., **J.J. Li**, S. Rosen, C.A. Vilee. Junctional Specialization in the Estrogen-Induced Renal Adenocarcinomas of the Golden Hamster. **Cancer Res.**, 35:6-10, 1975.
- \*8. **Li, J.J.**, S.A. Li, L.A. Klein, C.A. Vilee. Dehydrogenase Isozymes in the Hamster and Human Renal Adenocarcinoma. In: **Isozymes, Developmental Biology**, (Ed. C.L. Market), Vol. 3, Academic Press, New York, N.Y., 1975, pp. 837-853.
9. Talley, D.J., **J.J. Li**, S.A. Li, C.A. Vilee. The Biochemical Comparison of Estrogen Receptors of the Hamster Hypothalamus and Uterus. **Endocrinology**, 96:1135-1144, 1975.
10. **Li, J.J.**, D.J. Talley, S.A. Li, C.A. Vilee. Receptor Characteristics of Specific Estrogen Binding in the Renal Adenocarcinoma of the Golden Hamster. **Cancer Res.**, 36:1127-1132, 1976.
- \*11. Li, S.A., **J.J. Li**, C.A. Vilee. Significance of the Progesterone Receptor in the trogen-Induced and -Dependent Renal Tumor of the Syrian Golden Hamster. **Ann. N.Y. Acad. Sci.**, 286:369-383, 1977.
- \*12. **Li, J.J.**, S.A. Li. Translocation of Specific Steroid Hormone Receptors into Purified Nuclei in Syrian Hamster Tissues and Estrogen-Dependent Renal Tumor. In: **Research on Steroids**, (Eds. A. Vermeulen, P. Jungblut, A. Klopper, and F. Sciarra), Vol. 7, North-Holland Publishing Co., Amsterdam Oxford, The Netherland, 1977, pp. 325-344.

13. **Li, J.J.**, T.L. Cuthbertson, S.A. Li. Specific Androgen Binding in the Kidney and Estrogen-Dependent Renal Carcinoma of the Syrian Hamster. **Endocrinology**, 101:1006-1015, 1977.
14. Li, S.A., **J.J. Li**. Estrogen-Induced Progesterone Receptor in the Syrian Hamster Kidney. I. Modulation by Antiestrogens and Androgens. **Endocrinology**, 103:2119-2128, 1978.
15. **Li, J.J.**, S.A. Li, T.L. Cuthbertson. Nuclear Retention of All Steroid Hormone Receptor Classes in the Hamster Renal Carcinoma. **Cancer Res.**, 39:2647-2651, 1979.
16. **Li, J.J.**, T.L. Cuthbertson, S.A. Li. Inhibition of Estrogen Carcinogenesis in the Syrian Golden Hamster Kidney by Antiestrogens. **J. Natl. Cancer Inst.**, 64:795-800, 1980.
17. **Li, J.J.**, S.A. Li. High Yield of Primary Serially Transplanted Hamster Renal Carcinoma: Steroid Receptor and Morphologic Characteristics. **Europ. J. Cancer**, 16:1119-1125, 1980.
18. Doe, R.P., J.J. Wires, S.A. Li, **J.J. Li**. Characterization of Cytoplasmic Glucocorticoid Receptor in Circulating Human Mononuclear Cells. **Life Sci.**, 27:687-693, 1980.
19. **Li, J.J.**, S.A. Li, D.J. Talley, H. Kirkman. Prostatic Abscesses and Absence of Bladder Lesions Following Chronic Estrogen Treatment in the Syrian Hamster. **Cancer Res.**, 40:3854-3856, 1980.
20. **Li, J.J.**, S.A. Li. Estrogen-Induced Progesterone Receptor in the Syrian Hamster Kidney. II. Modulation by Synthetic Progestins. **Endocrinology**, 108:1751-1756, 1981.
21. Ortlip, S.A., S.A. Li, **J.J. Li**. Characterization of the Glucocorticoid Receptor in the Syrian Hamster Testis. **Endocrinology**, 109:1331-1338, 1981.
22. Li, S.A. **J.J. Li**. Changes in Estrogen Receptor Levels During DES-Induced Hepatocarcinogenesis in the Syrian Hamster Fed  $\alpha$ -Naphthoflavone. **J. Steroid Biochem.**, 15:387-392, 1981.
23. Talley, D.J., W.A. Roy, **J.J. Li**. Behavior of Primary and Serially Transplanted Estrogen-Dependent Renal Carcinoma Cells in Monolayer and in Collagen Gel Culture. **In-Vitro**, 18:149-156, 1982.
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48. Haaf, H. and J.J. Li. **Proc. Am. Assoc. Cancer Res.**, 30:623, 1989. San Francisco, CA.
49. Li, J.J. and S.A. Li. **Proc. Am. Assoc. Cancer Res.**, 30:678, 1989. San Francisco, CA.
50. Oberley, T.D., L.J. Lauchner, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.**, 30:742, 1989. San Francisco, CA.
51. McCormick, M., J. Elwell, L. Oberley, Y. Sun, and J.J. Li. **Proc. Am. Assoc. Cancer Res.**, 30:799, 1989. San Francisco, CA.
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54. Li, J.J. and S.A. Li. **Proc. 15th Intern. Cancer Congress**, 1990, Hamburg, Germany.
55. Banerjee, S.K., S. Banerjee, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.**, 32:30, 1991, Houston, TX.
56. Bentel, J.M., T.E. Ernst, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.**, 32:214, 1991, Houston, TX.
57. Li, J.J., H. Haaf, and S.A. Li. **Proc. Endocrine Soc.**, Abst. 555, 1991, Washington, DC
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61. Banerjee, S.K., S. Banerjee, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 34:1433, 1993, Orlando, FL.
62. Chen, W., S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 34:3023, 1993, Orlando, FL.
63. Emerson, M., S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 36:31, 1995, Toronto, Canada.
64. Li, S.A., E. Yazlovitskaya, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 37:519, 1996, Washington, DC.
65. Hou, X., S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 37:520, 1996, Washington, DC.
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67. Liao, D-Z.J., X. Hou, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 38:3322, 1997, San Diego, CA.
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71. Liao, D-Z.J., X. Hou, C. Pantazis, C. Bai, S.A. Li, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 39:387, 1998. New Orleans, LA.
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74. Li, S.A., J. Weroha, D-Z.J. Liao, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 40:617, 1999.
75. Li, S.A., J.S. Weroha, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 41:427, 2000.
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77. Li, J.J., S.A. Li, M. Cansler, O. Tawfik, R.R. Tekmal, and J. Coe. **Proc. Am. Assoc. Cancer Res.** 42:4723, 2001.
78. Papa, D., J.J. Li, J.S. Weroha, and S.A. Li. **Proc. Am. Assoc. Cancer Res.** 42:4746, 2001.
79. Li, S.A., J.S. Weroha, and J.J. Li. **Proc. Am. Assoc. Cancer Res.** 43:1149, 2002.
80. Li, J.J., S.J. Weroha, W.L. Lingle, J.L. Salisbury, S.A. Li. **Proc. Am. Assoc. Cancer Res.** 45:6, 2004.
81. Weroha, S.J., J.J. Li, S.A. Li. **Proc. Am. Assoc. Cancer Res.** 45:12, 2004.
82. Augustine, RP, MM Schmitt, D. Dixon, S.A. Li, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 46:2102, 2005.

83. Hontz, A.E., J.L. Salisbury, W.L. Lingle, S.A. Li, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 46:2103, 2005.
84. Weroha, S.J., J.J. Li, S.A. Li. **Proc. Am. Assoc. Cancer Res.** 46:2105, 2005.
85. Hontz, A.E., S.A. Li, J.L. Salisbury, W.L. Lingle, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 47:5642, 2006.
86. Hontz, A.E., S.A. Li, J.L. Salisbury, W.L. Lingle, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 48:3470, 2007.
87. Li, S.A., S. Pervin, Y. Hong, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 49:2009, 2008.
88. Hontz, A.E., Y. Hong, S.A. Li, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 49:3145, 2008.
89. Li, S.A., Y. Hong, L. Radvanyi, J.Q. Chen, J.J. Li. **Proc. Am. Assoc. Cancer Res.** 52:5032, 2009.

## SEMINARS AND SYMPOSIA

### INVITED SPEAKER

[Partial List]

Third International Conference on Isozymes, Yale University,  
New Haven, CT, April 17-20, 1974

International Study Group for Steroid Hormones, VII Meeting,  
Rome, **Italy**, December 3-5, 1975

Department of Clinical Chemistry, Policlinico Agostino Gemeli, Universita Cattolica,  
Rome, **Italy**, December 5, 1975

Endocrinology and Reproductive Biology Group, Hershey Medical Center, Pennsylvania  
State University, Hershey, PA, December 15, 1977

Symposium of Estrogens in the Environment, National Institute of  
Environmental Health Sciences (NIEHS), NIH, Raleigh, NC, September 10-12, 1979  
Department of Pharmacology, University of Illinois, Rockford School of Medicine,  
Rockford, IL, May 22, 1980

Department of Biology, St. Olaf College, Northfield, MN, April 15, 1981

Reproductive Toxicology Laboratory, National Institute of Environmental Health  
Sciences (NIEHS), NIH, Research Triangle Park, NC, May 1, 1981

24th Congress of the European Society of Toxicology, Satellite Symposium on the  
Mechanisms of Estrogen Carcinogenicity: Role of Metabolites  
Rome, **Italy**, March 31, 1983

Symposium on Estrogens and Cell Transformation, Woodcreek Resort  
Wimberley, TX, June 5-7, 1983

Endocrine Study Group, Cancer Research Laboratory and Department of Zoology  
University of California, Berkeley, CA, September 30, 1983

Department of Pathology, Michigan Cancer Foundation (MCF)  
Detroit, MI, June 29, 1984

McArdle Laboratory for Cancer Research and Department of Pathology  
University of Wisconsin, Madison, WI, July 17, 1984

Second Symposium of Estrogens in the Environment, National Institute of  
Environmental Health Sciences (NIEHS), NIH, Raleigh, NC, April 10-12, 1985

Thimann Laboratories, Department of Biology  
University of California, Santa Cruz, CA, June 6, 1985

DES Action National Conference, Estrogens and Cancer: A Multidisciplinary Focus on  
Diethylstilbestrol (DES), University of California, Berkeley, CA, June 7-8, 1985

First Gordon Research Conference on Hormonal Carcinogenesis [Co-Chairman]  
The New Hampton School, New Hampton, NH, August 25-30, 1985

Department of Pharmacology, University of Florida, School of Medicine  
J. Hillis Miller Health Center, Gainesville, FL, September 30, 1985

Department of Pharmacology, University of Massachusetts Medical School  
Worcester, MA, October 31, 1985

Federation of American Societies for Experimental Biology (FASEB), Role of Metabolism  
in the Activity and Toxicity of Xenobiotic Estrogens  
St. Louis, MO, April 13-18, 1986

Reproductive Endocrinology and Toxicology, Worcester Foundation  
for Experimental Biology, Worcester, MA, May 20, 1986

Department of Pathology, Michigan Cancer Foundation (MCF)  
Detroit, MI, June 6, 1986

Department of Pathology, University of Wisconsin, Medical School  
Madison, WI, June 12, 1986

Department of Cell Biology, AMC Cancer Research Center  
Denver, CO, July 15, 1986

Institute of Pharmacology and Toxicology, University of Wurzburg  
Wurzburg, **FR Germany**, August 29, 1986

Symposium on Non-Mutagenic Carcinogens: How Much Risk to Man? Robens Institute  
of Industrial & Environmental Health and Safety, University of Surrey, Guildford  
Surrey, **England, U.K.**  
August 30 - September 6, 1986

Tenth Annual Interdisciplinary Cancer Research Workshop, Cancer Association of  
Greater New Orleans, New Orleans, LA, February 13, 1987

Second Gordon Research Conference on Hormonal Carcinogenesis [Chairman]  
The New Hampton School, New Hampton, NH, August 3-8, 1987

Department of Tumor Biology, School of Biological Sciences  
University of Nebraska Medical Center, Lincoln, NE, October 22, 1987  
Klinge Pharma Research Division, Toxicology Group  
Munich, **FR Germany**, August 4, 1989

Institute of Pharmacology and Toxicology, University of Wurzburg  
Wurzburg, **FR Germany**, August 16, 1989

Workshop on Current Perspectives and Future Trends in Hormonal Carcinogenesis  
Division of Cancer Etiology, National Cancer Institute, NIH  
Gaithersburg, MD, September 28, 1989

Department of Medicine, Anatomy and Cell Biology, University of South Carolina  
Medical School, Charleston, SC, May 22, 1990

Fifteenth International Cancer Congress, Experimental Models of Neoplastic Development, University of Hamburg, Martin Luther King Platz  
Hamburg, **FR Germany**, August 17, 1990

Department of Medical Nutrition and Toxicology, Karolinska Institute (Novum)  
Stockholm, **Sweden**, August 21, 1990

Fred Hutchinson Cancer Research Center, Division of Public Health Sciences  
Seattle, WA, October 22, 1990

Department of Epidemiology, University of Washington, School of Public Health  
Seattle, WA, October 23, 1990

Laboratory of Molecular Carcinogenesis, National Institute Environmental Health Sciences (NIEHS) NIH, Research Triangle Park, NC, November 1, 1990

First International Symposium on Hormonal Carcinogenesis, Hyatt Regency Cancun  
Cancun, **Mexico**, March 19-23, 1991

Fourth Gordon Research Conference on Hormonal Carcinogenesis  
[Discussion Leader], Colby-Sawyer College, New London, NH, July 28-August 2, 1991

Workshop on Opportunities for Research on Women's Health, NIH [Working Group Participant-Peri menopausal/Mature years and Malignancy Sessions]  
Marriott Hunt Valley Inn, Hunt Valley, MD, September 4-6, 1991

Chemical Industry Institute of Toxicology (CIIT)  
Research Triangle Park, NC, January 17, 1992

Cancer Research Laboratory,  
University of California, Berkeley, CA, June 9, 1992

Fred Hutchinson Cancer Research Center, Division of Public Health Sciences Workshop  
on Chemical Carcinogenesis, Seattle, WA, November 6, 1992

Department of Pathology. Fox Chase Cancer Center  
Philadelphia, PA, November 20, 1992

Department of Pharmacology, Toxicology, and Therapeutics  
University of Kansas School of Medicine, Kansas City, KS, April 16, 1993

Department of Medical Nutrition and Toxicology  
Karolinska Institute (Novum)  
Stockholm, **Sweden**, July 6, 1993

Women's Research Institute and Department of Obstetrics and Gynecology  
University of Kansas School of Medicine-Wichita, Wichita, KS, December 16, 1993

Distinguished Cancer Lecture Series. The Cancer Institute of New Jersey, UMDNJ Robert  
Wood Johnson Medical School, New Brunswick, NJ, February 17, 1994

Keynote Speaker. Seventh Annual Kansas Health Foundation Cancer Symposium  
Holiday Inn Mission/Overland Park, Overland Park, KS, April 14, 1994

Cancer Symposium, Watkins Life Science Conference  
Wichita State University, Wichita, KS, April 16, 1994

Desenzano Regional Hospital, Department of Laboratory Medicine and Pathology  
Desenzano, **Italy**, July 15, 1994

Division of Molecular Cytometry, Department of Pathology, University of California  
San Francisco Medical Center, San Francisco, CA, September 22, 1994

Institute of Basic Medical Sciences, Third Military Medical University  
Beijing, **P.R. China**, November 10, 1994

Basic Research Institute and Hospital, First Military Medical University  
Guangzhou, **P.R. China**, November 17, 1994

Fourth Conference Chinese Society of Microbiology and Immunology  
Plenary Speaker, Shanghai, **P.R. China**, November 21, 1994

U.S. Environmental Protection Agency (EPA), Health Effects Research Laboratory  
Endocrine Disrupter Research Needs Workshop, Carcinogenesis and Exposure Panels,  
Radisson Plaza Hotel, Raleigh, NC, April 10-13, 1995

M.D. Anderson Cancer Center, Science Park, Research Division, Department of  
Carcinogenesis, University of Texas, Smithville, TX, August 11, 1995

Center for Molecular and Cellular Toxicology, Symposium: The Role of Xenobiotics in Breast Cancer Development, Wayne State University  
Detroit Institute of Art, Detroit, MI, November 15, 1995

Department of Chemical Biology, Rutgers, The State University of New Jersey  
Piscataway, NJ, October 10, 1996

Department of Molecular Endocrinology, INSERM, Endocrinology and Reproductive Medicine Service, Necker-Enfants Malades Hospital  
Universite Rene Descartes, Paris, **France**, October 7, 1997

Cancer Research Center of Hawaii, at Manoa  
University of Hawaii, Honolulu, Hawaii, January 26, 1998

Third International Symposium on Hormonal Carcinogenesis  
Fred Hutchinson Cancer Research Center, Seattle, WA, September 8, 1998

Department of Pathology, University of Valencia, School of Medicine  
Valencia, **Spain**, July 2, 1999

Current Knowledge DES Research Update: Future Directions  
The William H. Natcher Center, NIH  
Bethesda, MD., July 19-20, 1999

Fourth Gordon Research Conference on Hormonal Carcinogenesis [Speaker]  
The Tilton School, Tilton, NH, August 3-8, 1999

Department of Chemical Biology, Rutgers, The State University of New Jersey  
Piscataway, NJ, November 1, 2000

Department of Chemical Carcinogenesis, American Health Foundation  
Valhalla, NY, November 3, 2000

222<sup>nd</sup> American Chemical Society (ACS) Meeting  
ACS Symposium on Mechanism of Estrogen Carcinogenesis  
Division of Chemical Toxicology  
Chicago, IL, August 29, 2001

International Symposium on Cancer: New Trends in Cancer for the 21<sup>st</sup> Century  
Catedra Santiago Grisolia  
Valencia, **Spain**, November 10-13, 2002

Institut National de la Sante et de is Recherche Medicale (INSERM)  
Department Cell Biology - Medicine  
Montpellier, **France**, November 15-16, 2002

Laboratory of Tumor Biology, National Institute Environmental Health Sciences,  
NIEHS. NIH, Research Triangle Park, NC, December 3-4, 2002.

Department of Cell & Molecular Biology  
Mayo Clinic, Rochester, MN, May 15, 2003.

Fourth International Symposium on Hormonal Carcinogenesis  
Palau de la Musica, Valencia, **Spain**, June 23, 2003

The Cancer Institute of New Jersey and The Robert Wood Johnson Cancer Center  
Piscataway and New Brunswick, NJ, July 23, 2003  
Division of Medical Oncology  
University of Colorado Comprehensive Cancer Center  
Denver, CO, October 6-7, 2003

Pennsylvania State Cancer Center  
Hershey Medical Center  
Hershey, PA, May 24-25, 2004

Lawrence National Laboratory of Life Sciences  
University of California Berkeley  
Berkeley, CA, August 9, 2004

University of Southern California  
Norris Comprehensive Cancer Center  
Los Angeles, LA, November 29, 2005

Institut National de la Sante et de is Recherche Medicale (INSERM)  
Department Cell Biology - Medicine  
Montpellier, **France**, July 5, 2006

Keynote Speaker  
 Third Annual Interdisciplinary Women's Health Research Symposium  
 Research on Women's Health (RWH), Lister Hill Center, NIH  
 Bethesda, MD, November 15, 2006

Foundation IPSEN, Scientific Meeting Series:  
 Hormonal Control of Cell Cycle  
 Espace Charles-Louis-Havas, Nevelly-sur-Seine  
 Paris, **France**, December 4, 2006

Department of Molecular Pathology  
 Blaffer Seminar Series  
 MD Anderson Comprehensive Cancer Center  
 Houston, TX, June 28, 2007

Clinical and Translational Immunology Seminar  
 MD Anderson Comprehensive Cancer Center  
 Houston, TX, June 25, 2008

Department of Medical Breast Oncology  
 Distinguish Lecturer in Oncology  
 Breast Cancer Research Program  
 MD Anderson Comprehensive Cancer Center  
 Houston, TX, November 6, 2008

### CITED COMMENTARIES

1. Service, R.F. New Role for Estrogen in Cancer? (Research News) **Science**, 279:1631-1633, 1998.
2. Li, J.J., and S.A. Li. Cover and Legend Honoring Hadley Kirkman, **Cancer Res.**, 58, July 15, 1998.
3. Eubanks, M.W. Hormones and Health. **Environ. Health Perspect.**, 105:482-487, 1997.
4. Adler, T. Pills ups Cancer Risk in Young Women. (News) **Science News**, 147:356. 1994.
5. Stone, R. Environmental Estrogens Stir Debate. (News & Comment) **Science**, 265:308-310, 1994.
6. Forman, J. The Menopause Dilemma. (Health) **Woman=s Day**, p. 64, Aug. 11, 1992.
7. Forman, J. Estrogen Therapy - No Easy Choice. (Health Sense) **The Boston Globe**, Sept. 9, 1991.

## RESEARCH INTERESTS

### CELL & MOLECULAR BIOLOGY

Cell cycle deregulation (cyclins, cdks, inhibitors of p27, p21, p16)  
Cell proliferation  
Growth factors (EGF, TGF $\alpha$ , TGF $\beta$ , etc.)  
Protooncogene expression (*c-myc*, *c-jun*, *c-fos*), gene amplification  
Suppressor gene expression (*p53*, *mdm2*, *WT1*)  
Genomic instability, karyotyping, molecular cytogenetics  
Nuclear image cytometry (NIC)  
Comparative genomic hybridization (CGH)  
Fluorescence *in-situ* hybridization (FISH)  
Centrosome amplification  
Mitotic kinases (AurA/B, Polo-1, and Nek2 kinases)

### REGULATION OF GENE/PROTEIN EXPRESSION

Isozymes and differentiation  
RNA synthesis and isolation  
Enzyme and protein synthesis  
Chromatin and chromosomal protein isolation

### ENDOCRINE ONCOGENESIS

Estrogens and estrogen xenobiotics  
Chemoprevention in hormonal oncogenesis  
Microsomal p-450 multisubstrate monooxygenases  
Estrogen 2-hydroxylase, catechol-O-methyltransferase

### BIOCHEMICAL ENDOCRINOLOGY

Mechanism of action of steroid hormones  
Steroid-receptor interactions  
Metabolism of natural and synthetic hormones  
Hormonal regulation of DNA, RNA, and protein synthesis

### STEM CELLS, BREAST

Adult luminal progenitor stem cells  
Mammosphere culture