

CURRICULUM VITAE

PART I: General Information

DATE PREPARED: May 2012

Name: Joshua LaBaer
Director, Virginia G. Piper Center for Personalized Diagnostics
Virginia G. Piper Chair of Personalized Medicine
Chair of the Directorate, The Biodesign Institute
Professor of Chemistry and Biochemistry

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Education:

1981	B.S.	University of California, Berkeley, California
1989	Ph.D.	University of California School of Medicine, San Francisco, California (Biochemistry and Biophysics)
1990	M.D.	University of California School of Medicine

Postdoctoral Training:

Internship and Residency:

1990-1991	Intern in Medicine, Brigham and Women's Hospital, Boston, MA
1991-1992	Junior Assistant Resident, Internal Medicine, Brigham and Women's Hospital

Fellowships:

1990-1995	Clinical Fellows in Medicine, Harvard Medical School, Boston, MA
1992-1995	Fellow in Medical Oncology, Dana-Farber Cancer Institute, Boston, MA
1995-2009	Instructor in Medicine, Harvard Medical School, Boston, MA

Licensure and Certification:

1992	Massachusetts License Registration
1993	American Board of Internal Medicine
1995	Medical Oncology, American Board of Internal Medicine

1999 Advanced Cardiac Life Support
2009 Arizona Medical License

Academic Appointments:

1990-1995 Clinical Fellows in Medicine, Harvard Medical School, Boston, MA
1995-1999 Instructor in Medicine, Harvard Medical School, Boston, MA
1999-2009 Director, Harvard Institute of Proteomics, Boston, MA
2009- Professor of Chemistry & Biochemistry, Arizona State University, Tempe
2009- Director, Center for Personalized Diagnostics, Arizona State University,
2011- Directorate, The Biodesign Institute, Arizona State University, Tempe, AZ
2012- Chair of the Directorate, The Biodesign Institute, Arizona State University

Hospital or Affiliated Institution Appointments:

1995- 2009 Instructor in Medicine, Dana-Farber Cancer Institute
1995- 2009 Associate Physician, Brigham and Women's Hospital

Major Administrative Responsibilities

1999-2009 Director of DNA Resources Core, Dana Farber/Harvard Cancer Center.
1999-2009 Director, Harvard Institute of Proteomics, Harvard Medical School
2009- Director, Center for Personalized Diagnostics, Arizona State University
2009- Professor of Chemistry and Biochemistry, Department of Chemistry
2011- Directorate, the Biodesign Institute, Arizona State University, Tempe, AZ
2012- Chair of the Directorate, The Biodesign Institute, Arizona State University

Professional Societies:

1984- AAAS, Member
1989- American College of Physicians, Member
1990- Massachusetts Medical Society, Member
2001- International Human Proteome Organization
2010- American Association of Cancer Research (AACR)

Editorial Boards:

2002- Journal of Proteome Research, Editor
2007- Analytical Biochemistry, Associate Editor
2008- Current Opinion in Biotechnology, Member
2008- Cancer Biomarker, Member
2008- Molecular Biosystems, Associate Editor
2009- Clinical Proteomics (CLIP), Member

Scientific Advisory Board

2000- Proteome Society
2000-2011 Protein Forest
2000-2011 Genstruct, Chair

2004-2008	Lumera-Plexera Corporation
2001-	United States Human Proteome Organization
2007-2010	Barnett Institute
2007-	NRC Genomics and Health Initiative
2008-	Promega Corporation
2008-	United States Human Proteome Organization, Treasurer
2009-	National Cancer Institute Board of Scientific Advisors
2010-	National Cancer Institute (NCI), Division of Cancer Prevention, Early Detection Research Network (EDRN): Chair of the EDRN Executive Committee and Co-Chair of the Steering Committee
2012	President-Elect United States Human Proteome Organization

Awards and Honors:

1978	Edward Frank Kraft Prize for Outstanding Academic Achievement, University of California
1977-1981	Regents Scholar, University of California
1981	Phi Beta Kappa
1981	Citation for Outstanding Student Research, UC Berkeley
1981	University Medal for Most Distinguished Graduating Senior, UC Berkeley
1981	Graduation with Highest Honors, UC Berkeley
1985	Dean's Prize for Student Research
1986-1987	Chancellor's Fellowship
1989	Alpha Omega Alpha
2001-04	Arthur and Rochelle Belfer Foundation Awardee, Breast Cancer Research Foundation
2005-11	Breast Cancer Research Foundation
2007	Kavli Frontiers of Science Symposium Recipient
2009	The Otto Herz Memorial Lectureship in Cancer Research
2009	The Virginia G. Piper Chair of Personalized Medicine
2011	Health Care Hero [researcher/innovator]; Phoenix Business Journal

PART II: RESEARCH, TEACHING, AND CLINICAL CONTRIBUTIONS

A. Funding Information

7/1995-7/2000	NIH K08, CA64166 (LaBaer) "CDK3 and Cell Cycle Regulation"
7/2000-7/2007	5 P30 CA06516-50 (Howley) Subcontract: "Cancer center support grant" (NCI)
10/2000-09/2004	1 U01 HL066582-01 (LaBaer) Subcontract "Genomics of Cardiovascular Development, adaptation and remodeling" (NHLBI)

10/2000- 09/2005	1 P50 CA89393-01 SPORE grant (LaBaer) SPORE “Identification of Candidate Targets for Therapeutic Intervention in Breast Tumor Progression” (NCI)
02/2001- 01/2009	P01 CA80111 (LaBaer/Weinberg) “Mechanisms of Breast Development & Carcinogenesis – Core A” (NIH/NCI)
03/2001- 02/2004	LORY00V0 (LaBaer Co-PI) “Functional Genomics of <i>Pseudomonas Aeruginosa</i> ” (Cystic Fibrosis Foundation)
09/2001- 09/2002	1 R01 DK61906-01 (LaBer) “Manipulating the Proteome” (NIDDK)
11/2002	The Virginia and DK Ludwig Cancer Research Program “Early Events in Breast Cancer Oncogenesis”
12/2002-11/2004	1 RO1 HG002923-01 (LaBaer) “YFLEX <i>Saccharomyces cerevisiae</i> ORF Clone Resource” (NHGRI)
03/2003	B.D. Clontech “Development and use of Recombinational Cloning Systems”
03/2003- 03/2005	22XS136 (LaBaer) “Kinase FLEX Gene Program” (NCI)
12/2003-12/2004	Aventis Pharmaceuticals Inc. “Harvard & Aventis MGC collaboration”
04/2004- 03/2005	BIOPHILE –80C Storage Unit with Individual Vial Retriever (NCRR)
05/2004	Astra Zeneca Pharmaceuticals “Functional Proteomics Investigation of Endocrine Resistant Breast Cancer”
09/2002- 07/2007	U01 DK56047 (LaBaer) Subcontract with UPENN “Functional Genomics of the Beta Cell” (NIDDK)
05/2004-04/2007	R33 CA99191-03 (LaBaer) “Functional Proteomics of Breast Cancer” (NCI)

08/2004- 08/2009	HHSN266200400053C (LaBaer) “Identifying Targets for Therapeutic Interventions Using Proteomics Technology” (NIAID)
08/2004- 07/2007	R01 HG003041-01 “Automated Clone Evaluation for Functional Proteomics” (NIH)
08/11/05-06/30/15	5U01CA117374 (LaBaer) NIH/NCI Biomarker Detection Using NAPPA Tumor Antigen Arrays
09/2005- 08/2006	5-2005-11790 (LaBaer) “The Use of Protein Microarrays to Study Autoimmunity and Diabetes” (Juvenile Diabetes Research Foundation International)
09/2005- 08/2007	R01 HG003420 (Bulyk) Subcontract with Brigham and Women’s Hospital “Yeast Transcription Factor Binding Specificities” (NIH/NIDDK)
04/2006-03/2007	U01 DK07273 (Magnuson) Subcontract with Vanderbilt University “Monoclonal Antibodies Directed Toward Developing Beta Cell” (NIH/NIDDK)
10/2001- 09/2007	Breast Cancer Research Foundation (LaBaer/Brugge) “Breast Cancer 1000 Project”
08/2005-07/2010	1 U01 CA117374-01 (LaBaer) “Biomarker Detection Using NAPPA Tumor Antigen Arrays” (NIH/NCI)
9/04/00- 02/29/08	U54 AI057159 (Kasper) NIAID New England Regional Center for Excellence for Biodefense and Emerging Infectious Diseases Research “Novel approaches and technologies for HTP production of protein R01 HG003828 (Larson) “HTS of Small molecule-protein interactions”
09/29/06 - 8/31/11	1 U01 GM079610-04 (LaBaer) NIH Development and Implementation of a Materials Repository for the PSI
9/1/07-8/31/10	Juvenile Diabetes Research Foundation (LaBaer) “Biochemical markers for T1D”
5/22/09-4/30/10	NIH/NIAID 1 R21 AI082000-01 (PI: Husson; Co-PI: LaBaer) Proteome-wide screen for M tuberculosis antigens

06/01/09- 05/31/13 U01 AI 077883 (NIH) (PI: Ryan)
Massachusetts General Hospital
High throughput NAPPA-proteomics and V. cholerae vaccine development

8/01/09-7/31/13 SAIC-Frederick, Inc. (LaBaer)
NCI-SAIC Antibody validation project

9/24/09- 9/23/12 3P41RR005351 (Prestegard) University of Georgia (NIH)
Research resource for integrated Glycotechnology (ARRA)

10/01/09 – 09/30/11 LTR 07/14/09 (LaBaer) Breast Cancer Research Foundation
Breast Cancer 1000 Project

12/01/09 – 11/30/11 R21AI082000 (Husson) Children’s Hospital Boston (NIH/NIAID)
Proteome-wide screen for M tuberculosis antigens

02/01/10 – 01/31/15 1U54CA143907-01 (Hillis)
University of Southern CA (NIH/NCI)
Multiscale Analysis of Response to Therapy

07/01/10- 06/30/15 1 U01 CA117374-06 (LaBaer) NIH/NCI
Biomarker Detection Using NAPPA Tumor Antigen Arrays

08/01/11- 07/31/12 H47328 (LaBaer) University of Southern California
YR 3: Multi-Scale Complex Systems Transdisciplinary Analysis of Response to Therapy (MC-START)

09/30/10-06/30/15 U54 GM094599 (Fromme) NIH-NIGMS
Center for Membrane Proteins in Infectious Diseases- MPID

09/15/10- 07/31/12 1R42RR031446 (LaBaer) Engineering Arts (NIH)
Piezoelectric Pipetting for High Density Nucleic Acid Programmable Protein Arrays

07/01/11 – 06/30/16 R01AI096213 (Magee) HHS-NIH-National Institutes of Health
Antibody Biomarkers for Early Detection of Tuberculosis

08/01/11- 07/31/12 H47328 (LaBaer) University of Southern California
YR 3: Multi-Scale Complex Systems Transdisciplinary Analysis of Response to Therapy (MC-START)

09/30/11- 08/31/16 U01GM098912 (LaBaer) HHS-NIH-NCI-National Cancer Institute
Continuation and Enhancement of the PSI:Biologics-Materials Repository

- 10/01/11- 09/30/12 11121331 (LaBaer) The Breast Cancer Research Foundation
Breast Cancer 1000 Project 2011-2012
- 08/23/11- 08/22/13 AGR 08/23/11 (Dinu) Phoenix Children's Hospital
Next Generation Genome Sequencing of Desmoplastic Small Round Cell
Tumors
- 09/01/11- 07/31/14 U54DK093449 (Chaput) HHS-NIH-National Institutes of Health
A Pipeline for the Production of Bivalent Synthetic Antibodies to the
Human Proteome

B. Report of Current Research Activities

Functional Proteomics of Human Cancer Genes	Principal Investigator
Bioinformatics and Knowledge Extraction	Principal Investigator
Checkpoint Proteins	Co-investigator
Biodefense Pathogens Research	Principal Investigator
Protein Microarray Technology	Principal Investigator

Major Research Interests:

1. Finding drug and vaccine targets for biodefense pathogens
2. Disease biomarker discovery
3. Estrogen resistance in breast cancer
4. Protein microarray technology and protein interaction mapping
5. DNA-damage checkpoint regulation

C. Report of Teaching

a. Medical School/School of Dental Medicine/Division of Medical Sciences courses:

1. Harvard Medical School

1999-2002 Chemistry and Biology of the Cell
Control of Cell Proliferation
Medical Students

2. Cold Spring Harbor Laboratory

2002- Proteomics and Proteomic Methods
Course Instructor, graduate students, post-doctoral fellows and
faculty
Intensive two-week fulltime course

3. University of California, San Francisco

1982	Primary Care Topics in Nutrition Course director, 20 medical students 6 hours/week for 12 weeks
1984	Pharmacology 100 Tutor, 2 medical students 3 hours/week for an academic year
1984-1985	Biochemistry 100 Teaching assistant, 50 medical students 12 hours/week for academic year
1986	Biochemistry 100 Lecturer, 150 medical students and 100 pharmacy students 8 hours/week for 3 weeks
1986-1987	Biochemistry 100 Tutor, 2 medical students 3 hours/week for academic year
1987-1990	Science Education Partnership Teacher, 2 high school teachers 3 hours/week for academic year

California Academy of Science

1988	“Our Bodies, Our Cells” (Molecular biology course for lay people) Director
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b. Advisory and supervisory responsibilities in clinical or laboratory setting:

1992	Medical student advisor Supervised and taught a medical student on oncology service 40 hours/year
1994	Lab graduate student supervisor Supervised and taught a graduate student in developing a project. 160 hours/year
1997	Lab graduate student supervisor Supervised and taught a graduate student in developing a project. 160 hours/year

1998	Ward Attending Oncology service on the Brigham and Women's inpatient service 160 hours/year
Arizona State University 2010	Invited Guest lecturer, "Functional Proteomics," Spring Biological Design core course, Biodesign Institute, BD-A250
2011	Invited Guest Lecturer, MCO 598 Science and Medical Writing, Professor Ed Sylvester, Feb 24, 2011 -4:30-6:30
2012	CHM 598 course for spring: "Biochemistry of Cancer"
c. Advisees/Trainees	
Bhupinder Bhullar	Post-Doctoral Fellow Scientist at Novartis, Lab Head at Novartis Institutes for Biomedical Research
Pascal Braun	Graduate Student, Ph.D. Post-Doctorate Fellow with Gavin MacBeath Lab Department of Chemistry and Chemical Biology (Harvard) <i>Currently</i> Group Leader at Technische Universität München Visiting Scientist at HelmholtzZentrum München
Carol Chang	Graduate Student, M.S. Institute of Chemistry & Cell Biology (Harvard)
Manuel Fuentes Garcia	Post-Doctoral Fellow Harvard Institute of Proteomics <i>Currently:</i> Cancer Research Center Salamanca, Spain
Laura Gonzalez	Post-Doctoral Fellow; Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics <i>Currently:</i> Research Scientist - Arizona State University
Lisa M. Hines	Post-Doctoral Fellow University of Colorado Health Sciences Center <i>Currently:</i> Department of Biology, University of Colorado at Colorado Springs, Colorado
Yanhui Hu	Post-Doctoral Fellow Harvard Institute of Proteomics
Tallamraju VS Murthy	Post-Doctoral Fellow

	Apogent Discoveries (Fisher Scientific)
Marcin Pacek	Post-Doctoral Fellow Proteomika
Jaehong Park	Post-Doctoral Fellow Minerva Biotechnologies Corporation
Niroshan Ramachandran	Post-Doctoral Fellow CTO, Auguron
Daniel Schiwiek	Post-Doctoral Fellow Lonza Biotechnology Pharmaceutical
Sahar Sibani	Post-Doctoral Fellow Harvard Institute of Proteomics
Wagner Montor	Post-Doctoral Fellow Harvard Institute of Proteomics
Sanjeeva Srivastava	Post-Doctoral Fellow, Harvard Institute of Proteomics <i>Currently:</i> Group Leader for the Proteomics Laboratory at the Indian Institute of Technology Bombay India (IITB).
Shane Miersch	Post-Doctoral Fellow; Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics <i>Currently:</i> Research Associate at Terrence Donnelly Centre for Cellular and Biomolecular Research at U of Toronto. Toronto, Canada
Sean Rollins	Post-Doctoral Fellow Harvard Institute of Proteomics
Lin Li Lu	Post-Doctoral Fellow Harvard Institute of Proteomics
Rodrigo Barderas	Post-Doctoral Fellow Harvard Institute of Proteomics
Zahra Moradpour	Post-Doctoral Fellow; Harvard Institute of Proteomics & Arizona State University
Fernanda Festa	Post-Doctoral Fellow; Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics @ Arizona State University

6. Enders, G.; Harlow, E.; LaBaer, J.; Meyerson, M.; Tsai, L. H.; Vandenheuveel, S., Cyclin-Dependent Kinases. *Faseb Journal* **1994**, 8, (7), A1262-A1262.
7. LaBaer, J.; Yamamoto, K. R., Analysis Of The DNA-Binding Affinity, Sequence Specificity and Context Dependence of the Glucocorticoid Receptor Zinc-Finger Region. *Journal of Molecular Biology* **1994**, 239, (5), 664-688.
8. Hiyama, H.; Iavarone, A.; LaBaer, J.; Reeves, S. A., Regulated ectopic expression of cyclin D1 induces transcriptional activation of the cdk inhibitor p21 gene without altering cell cycle progression. *Oncogene* **1997**, 14, (21), 2533-2542.
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10. LaBaer, J.; Garrett, M. D.; Stevenson, L. F.; Slingerland, J. M.; Sandhu, C.; Chou, H. S.; Fattaey, A.; Harlow, E., New functional activities for the p21 family of CDK inhibitors. *Genes & Development* **1997**, 11, (7), 847-862.
11. Brizuela, L.; Braun, P.; LaBaer, J., FLEXGene repository: from sequenced genomes to gene repositories for high-throughput functional biology and proteomics. *Molecular and Biochemical Parasitology* **2001**, 118, (2), 155-165.
12. Marsischky, G.; Richardson, A.; Hogel, C.; Weger, J.; Brizuela, L.; LaBaer, J.; Harlow, E.; Kolodner, R., Creation of the yeast FLEX (Full-Length expression) library. *Yeast* **2001**, 18, S111-S111.
13. Braun, P.; Hu, Y. H.; Shen, B. H.; Halleck, A.; Koundinya, M.; Harlow, E.; LaBaer, J., Proteome-scale purification of human proteins from bacteria. *Proceedings of the National Academy of Sciences of the United States of America* **2002**, 99, (5), 2654-2659.
14. Brizuela, L.; Richardson, A.; Marsischky, G.; LaBaer, J., The FLEXGene repository: Exploiting the fruits of the genome projects by creating a needed resource to face the challenges of the post-genomic era. *Archives of Medical Research* **2002**, 33, (4), 318-324.
15. LaBaer, J., Genomics, proteomics, and the new paradigm in biomedical research. *Genetics in Medicine* **2002**, 4, (6), 2S-9S.
16. Braun, P.; LaBaer, J., High throughput protein production for functional proteomics. *Trends in Biotechnology* **2003**, 21, (9), 383-388.
17. Hu, Y. H.; Hines, L. M.; Weng, H. F.; Zuo, D. M.; Rivera, M.; Richardson, A.; LaBaer, J., Analysis of genomic and proteomic data using advanced literature mining. *Journal of Proteome Research* **2003**, 2, (4), 405-412.
18. LaBaer, J., Harnessing the proteome. *Biopolymers* **2003**, 71, (3), L8.
19. LaBaer, J., Mining the literature and large datasets. *Nature Biotechnology* **2003**, 21, (9), 976-977.
20. Aguiar, J. C.; LaBaer, J.; Blair, P. L.; Shamailova, V. Y.; Koundinya, M.; Russell, J. A.; Huang, F. Y.; Mar, W.; Anthony, R. M.; Witney, A.; Caruana, S. R.; Brizuela, L.; Sacci, J. B.; Hoffman, S. L.; Carucci, D. J., High-throughput generation of *P. falciparum* functional molecules by recombinational cloning. *Genome Research* **2004**, 14, (10B), 2076-2082.
21. Braun, P.; LaBaer, J., High throughput protein production for functional proteomics. *Drug Discovery Today* **2004**, 9, (2), S1-S7.

22. Hu, Y. H.; LaBaer, J., Tracking gene-disease relationships for high-throughput functional studies. *Surgery* **2004**, 136, (3), 504-510. ISSN 0039-6060.
23. LaBaer, J., Harnessing the proteome. *Abstracts of Papers of the American Chemical Society* **2004**, 228, 211-ANYL.
24. LaBaer, J.; Qiu, Q. Q.; Anumanthan, A.; Mar, W.; Zuo, D. M.; Murthy, T. V. S.; Taycher, H.; Halleck, A.; Hainsworth, E.; Lory, S.; Brizuela, L., The *Pseudomonas aeruginosa* PAO1 gene collection. *Genome Research* **2004**, 14, (10B), 2190-2200.
25. Marsischky, G.; LaBaer, J., Many paths to many clones: A comparative look at high-throughput cloning methods. *Genome Research* **2004**, 14, (10B), 2020-2028.
26. Murthy, T. V. S.; Wu, W. L.; Qiu, Q. Q.; Shi, Z. W.; LaBaer, J.; Brizuela, L., Bacterial cell-free system for high-throughput protein expression and a comparative analysis of *Escherichia coli* cell-free and whole cell expression systems. *Protein Expression and Purification* **2004**, 36, (2), 217-225.
27. Pearlberg, J.; LaBaer, J., Protein expression clone repositories for functional proteomics. *Current Opinion in Chemical Biology* **2004**, 8, (1), 98-102.
28. Ramachandran, N.; Hainsworth, E.; Bhullar, B.; Eisenstein, S.; Rosen, B.; Lau, A. Y.; Walter, J. C.; LaBaer, J., Self-assembling protein microarrays. *Science* **2004**, 305, (5680), 86-90.
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37. LaBaer, J.; Carr, S. A., The marriage of proteomics and biomarkers. *Journal of Proteome Research* **2005**, 4, (4), 1043-1043.
38. LaBaer, J.; Ramachandran, N., Protein microarrays as tools for functional proteomics. *Current Opinion in Chemical Biology* **2005**, 9, (1), 14-19.

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40. Pearlberg, J.; Degot, S.; Endege, W.; Park, J.; Davies, J.; Gelfand, E.; Sawyer, J.; Conery, A.; Doench, J.; Li, W.; Gonzalez, L.; Boyce, F. M.; Brizuela, L.; LaBaer, J.; Grueneberg, D.; Harlow, E., Screens using RNAi and cDNA expression as surrogates for genetics in mammalian tissue culture cells. *Cold Spring Harb Symp Quant Biol* **2005**, 70, 449-59.
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42. Schiwiek, D.; LaBaer, J.; Hines, L., Self-assembling protein microarrays for mapping protein-protein interactions among 1300 breast cancer-related proteins. *Molecular & Cellular Proteomics* **2005**, 4, (8), S55-S55.
43. Butcher, R. A.; Bhullar, B. S.; Perlstein, E. O.; Marsischky, G.; LaBaer, J.; Schreiber, S. L., Microarray-based method for monitoring yeast overexpression strains reveals small-molecule targets in TOR pathway. *Nature Chemical Biology* **2006**, 2, (2), 103-109.
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47. Park J, LaBaer J. Recombinational cloning. *Curr Protoc Mol Biol.* **2006** May;Chapter 3:Unit 3.20.
48. Braun P, LaBaer J. High Throughput Purification of Proteins from Escherichia Coli in *Cell Biology: A Laboratory Handbook*, 3rd Edition, Volume 4. Elsevier Academic Press: Burlington, MA **2006**: 73- 77.
49. LaBaer, J., Functional proteomics for biomarker and target discovery. *Molecular & Cellular Proteomics* **2006**, 5, (10), 557.
50. Ramachandran, N.; Hainsworth, E.; Demirkan, G.; LaBaer, J., On-chip protein synthesis for making microarrays. *Methods Mol Biol* **2006**, 328, 1-14.
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54. Langlais, C.; Guillaume, B.; Wermke, N.; Scheuermann, T.; Ebert, L.; LaBaer, J.; Korn, B., A systematic approach for testing expression of human full-length proteins in cell-free expression systems. *Bmc Biotechnology* **2007**, 7, 11.
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7. LaBaer J. Human Proteome Project Symposium. McLean, Virginia. 2001.

8. LaBaer J. Second International Structural Genomics Meeting. Arlie Center, Virginia. 2001
9. LaBaer J. Harvard-Armenise Symposium on Cancer Biology and Genomics and Post-Genomics. Grand Hotel Borromee, Lago Maggiore, Italy. 2001
10. LaBaer J. Genomics and Proteomics of the Kidney. National Institutes of Health. Bethesda, Maryland. 2001.
11. LaBaer J. Keynote Address. Asan-Harvard Medical International Symposium, Genomics and Proteomics: Impact on Medicine and Health. Seoul, South Korea. 2001
12. LaBaer J. Chips to Hits. Sheraton San Diego Hotel and Marina. San Diego, California. 2001
13. LaBaer J. Proteomic Summit. Perkin Elmer Life Sciences. Boston, Massachusetts. 2001
14. LaBaer J. Human Proteome Project Conference. San Diego, California. 2002
15. LaBaer J. Medical Grand Rounds. Children's Hospital of Philadelphia. Philadelphia, Pennsylvania. 2002.
16. LaBaer J. Keynote Address. Pharma R&D Directions. Cancun, Mexico. 2002
17. LaBaer J. Session Chair. Proteomics and the Proteome. Geneva, Switzerland. 2002
18. LaBaer J. Defining the Mandate of Proteomics in the Post-Genomics Era. National Academy. Washington, D.C. 2002
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20. LaBaer J. ABRF. Denver, Colorado. 2003
21. LaBaer J. Yale Biotech Speaker Series. New Haven, CT. 2003
22. LaBaer J. Protein Production & Crystallization Workshop. Bethesda, MD. 2003
23. LaBaer J. IRI Frontiers of Technology Conference. Allentown, PA. 2003
24. LaBaer J. Journal of Proteome Research Editorial Advisory Board meeting. Washington, DC. 2003
25. LaBaer J. Society of University Surgeons Genomics Workshop in St. Louis, MO February 2004
26. LaBaer J. IBC USA Conferences Inc. Advances in Protein Science in Boston, MA April 2004
27. LaBaer J. St. Paul's Hospital James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research iCAPTURE seminar series in Vancouver, BC Canada May 2004
28. LaBaer J. Fondation des Treilles "RNA Interference" colloquium in Nice, France June 2004
29. LaBaer J. GeneExpression Systems, BioArrays 2004 meeting in New York, NY July 2004
30. LaBaer J. ESF Functional Genomics Programme / MolTools Workshop: Ligand Binders against the Human Proteome in Clare College, Cambridge, England September 2004
31. LaBaer J. Keynote Address. Cambridge Healthtech Institute's PepTalk Conference, Protein Arrays: Complex Challenges—Creative Solutions. San Diego, California 2005
32. LaBaer J. Speaker. 2nd Annual Symposium on Enabling Technologies for Proteomics (ETP). Calgary, AB Canada 2005.
33. LaBaer J. Session Chair. New England Regional Center of Excellence/Biodefense and Emerging Infections Diseases: 2nd Annual Retreat. Durham, NH 2005.
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38. LaBaer J. ABRF International Symposium: "Integrating Science, Tools and Technologies with Systems Biology." Long Beach, CA 2006.
39. LaBaer J. Lead Moderator & Organizing Committee. National Institute of Standards and Technology (NIST): "Measurement Challenges In Proteomics." Boston, MA 2006.
40. LaBaer J. Program Chair. HUPO Biomarker Cardiovascular Disease Initiative: 1st Workshop. Boston, MA 2006.
41. LaBaer J. Keynote Lecture. Biomedicum Helsinki: "Functional Genomic: Making the Whole More than the Sum of its Parts." Helsinki, Finland 2006.
42. LaBaer J. Guest Speaker. Eastern Virginia Medical School: Department of Microbiology and Molecular Cell Biology. Norfolk, VA 2006.
43. LaBaer J. Speaker. Wadsworth David Axelrod Institute Symposium: "Genomics: The Science Today and the Vision for Tomorrow." Albany, NY 2006.
44. LaBaer J. Keynote Speaker. IBC Life Science: "Discovery 2 Diagnostics and 13th Annual Chips to Hits Conference." Boston, MA 2006.
45. LaBaer J. State-of-the-Art Lecturer. 2006 Annual HUPO World Conference. "Transforming Proteomics from Bench to Bedside." Long Beach, CA 2006.
46. LaBaer J. Featured Speaker. Cambridge Healthtech Initiative: PepTalk – Protein Arrays. San Diego, CA 2007.
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51. LaBaer J. Guest Speaker. Systematics Biology- towards automated biology Symposium Zurich, Switzerland. September 2007.
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53. LaBaer J. Featured Speaker. Breast Cancer Symposium "Think Tank 18" in Big Island, Hawaii. January, 2008.
54. LaBaer J. Featured Speaker. International Cancer Biomarker Consortium in Honolulu Big, Hawaii. February, 2008.
55. LaBaer J. Featured Speaker. Smith College Seminar for the Biochemistry Program in Northampton, Massachusetts. March, 2008

56. LaBaer J. Featured Speaker. Harvard School of Public Health Bioinformatics Forum in Boston, Massachusetts. April, 2008
57. LaBaer J. Featured Speaker. AACCC Oak Ridge Conference in San Jose, California. April, 2008
58. LaBaer J. Keynote Speaker. Cambridge Healthtech Institute, PEGS: The Definitive Protein Engineering Summit “Recombinant Antibodies” Conference, in Boston, Massachusetts. April, 2008
59. LaBaer J. Featured Speaker. National Genome Research Network in Heidelberg, Germany. May, 2008
60. LaBaer J. Keynote Speaker. Qatar Foundation Seminar, Doha, Qatar. May, 2008
61. LaBaer J. Featured Speaker. 12th Annual Armenise-Harvard Foundation Symposium Stresa, Italy June, 2008
62. LaBaer J. Featured Speaker. NHGRI Proteomic Sequence & Function Workshop, Rockville, MD. July, 2008
63. LaBaer J. Featured Speaker. Protein Society 2008 Symposium San Diego, CA. July, 2008
64. LaBaer J. Guest Speaker. HUPO 2008 Amsterdam, Netherlands, August, 2008
65. LaBaer J. Guest Speaker. Biomarker Discovery Summit Philadelphia, PA, September, 2008
66. LaBaer J. Featured Speaker. TBIO Seminar Havana, Cuba November, 2008
67. LaBaer J. Featured Speaker. Georgetown University Seminar Washington, D.C December, 2008
68. LaBaer J. Featured Speaker. Breast Cancer Symposium "Think Tank 19" in Big Island, San Jose, Costa Rica. January, 2009
69. LaBaer J. Featured Speaker. Distinguished Lectureship in Proteomic Sciences at UCLA Los Angeles, California. January, 2009L
70. LaBaer J. Featured Speaker. Pittcon 2009 in Chicago, Illinois. March, 2009
71. LaBaer J. Featured Speaker. The Otto Herz Memorial Lectureship in Cancer Research at Tel Aviv University in Tel Aviv, Israel. March, 2009
72. LaBaer J. Featured Speaker. Centro de Investigacion del Cancer (CIC-IBMCC) in Salamanca, Spain. April, 2009
73. LaBaer J. Featured Speaker. PABSELA Microbial Pathogenesis for Partners Harvard Medical International in Cordoba, Argentina. September, 2009
74. LaBaer J. Featured Speaker. NCI’s Structural Biology and Molecular Applications, “Transient Molecular Workshop,” San Francisco, CA , August 24-28, 2009
75. LaBaer J. Featured Speaker. NCI – Early Detection Research Network, Scientific Workshop, Bethesda, MD, August 31-Sept 2, 2009
76. LaBaer J. Discussion Group Leader. NCI - Clinical Proteomic Technologies for Cancer Strategy Workshop: Implementation of a New Cancer Protein Biomarker, Bethesda, MD., September 9-10, 2009
77. LaBaer J. Invited Speaker. “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” Annual HUPO World Congress, Toronto Canada, Sept 28-30, 2009
78. LaBaer J. Serve as a co-chair at the session on Young Investigator Awards, Annual HUPO World Congress, Toronto Canada, Sept 28-30, 2009
79. LaBaer J. Featured Speaker: “Functional proteomics and medicine.” Nanoforum XXII, Genova, Italy, October, 2009

80. LaBaer J. Organizer, Host and Presenter, “Personalized Medicine Forum,” In partnership with Office of the Vice President Research and Economic Affairs, Biodesign Institute Auditorium, Tempe AZ. Sept 2009
81. LaBaer J. Honoree - BCRF 2009 Research, Scientific meeting (“mini retreat”) held at Memorial Sloan-Kettering Cancer Center New York City, Oct 26-28, 2009
82. LaBaer J. Appointed to Board of Scientific Advisors (BSA). National Cancer Institute National Institutes of Health. New members' orientation session and Board Meeting, Bethesda, MD November 2009
83. LaBaer J. Invited speaker, “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” Enabling a future of personalized cancer medicine: leveraging 30 years of China-U.S. scientific progress: Chinese Academy of medical sciences (CAMS), Beijing China Nov 6-11, 2009
84. LaBaer J. Speaker, PSI Annual Meeting 2009, “PSI Material Repository,” National Institutes of Health Campus, Bethesda, MD December 8-10, 2009
85. LaBaer J. Invited Guest Speaker, Juvenile Diabetes Foundation of Arizona, Scottsdale, December 2009
86. LaBaer J. Served as Host , Early Detection Research Network Meeting, Tempe, AZ, March 1-3, 2010
87. LaBaer J. “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” 2010 US HUPO Annual Conference, Denver, CO March 7, 2010
88. LaBaer J. Invited Speaker, New Technologies for Early Detection and Diagnosis of Disease, The Department of Genome Sciences 9th Annual Symposium, University of Washington, Seattle April 7, 2010
89. LaBaer J. Invited Speaker, “Harnessing the Proteome for Personalized Diagnostics,” Virginia G. Piper Foundation, Board of Trustee, Phoenix, AZ, April 12, 2010
90. LaBaer J. Invited Speaker, UCSF Breast SPORE – EAB Meeting, San Francisco, CA, April 21, 2010
91. LaBaer J. Panel Presentation, PSI: Biology High-Throughput Enabled Structural Biology Partnerships; Experimental Biology Meeting, Anaheim Convention Center, Anaheim CA April 22, 2010
92. LaBaer, J. Invited Speaker, Wistar Institute, Distinguished Seminar Series, Philadelphia, PA , May 12, 2010
93. LaBaer J. Invited Lecturer, “Proteomics in Translational Genetic Research,” Pediatric Grand Rounds; Phoenix Children’s Hospital (PCH), Phoenix, AZ. May 18, 2010.
94. LaBaer, J. Invited Speaker, “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” Southwest Bio Expo 2010, Arizona BioIndustry Association (AZBio) Tucson, AZ. May 21, 2010
95. LaBaer J. Invited to serve as a PhD thesis examiner, Lund University, Sweden June 17, 2010
96. LaBaer J. Board of Scientific Advisors (BSA) Meeting. National Cancer Institute National Institutes of Health. Bethesda, MD June 28-29, 2010
97. LaBaer, J. 10th Annual Midwest Center for Structural Genomics [MCSG] Meeting, Argonne National Laboratory, Argonne, IL July , 2010
98. LaBaer, J. “Materials Repository” PSI: Biology – Initial Meeting of the PSI: Biology Network, July 19-20, 2010, Bethesda, MD

99. LaBaer, J. PS-OC Trans-Network Proposal "Understanding of drug resistance in breast cancer by correlative structure-function analysis." Denver CO, August 1-2, 2010
100. LaBaer, J. EDRN Orientation and Planning Meeting, in Rockville, MD, August 11-13, 2010
101. LaBaer, J. EDRN investigators orientation and planning meeting. Rockville, MD, August 11-13, 2010
102. LaBaer, J. NCI/DCP Early Detection Research Network (EDRN) Network Consulting Team Meeting, Rockville, MD, September 2, 2010
103. LaBaer, J. Keynote Lecture, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Clinical Proteomic Technologies for Cancer, Establishing the Standards in Clinical Proteomics, 2010 Annual Meeting, Bethesda, MD, September 8-9, 2010
104. LaBaer, J. Invited Speaker, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Cambridge Healthtech Institute's Eighth Annual Protein Biomarkers CHI's Protein Biomarkers meeting at the ADAPT 2010: Accelerating Development & Advancing Personalized Therapy Congress, Arlington, VA, September 13-16, 2010
105. LaBaer, J. Project Lead Participant - USC PSOC Site Visit – Los Angeles CA, September 30, 2010
106. LaBaer, J. Invited, United States-Japan Cooperative Medical Science Program (CMSP) sponsored 14th International Conference on Emerging Infectious Diseases (EID) in the Pacific Rim. "Next Generation Diagnostics for Infectious Diseases: Challenges and Opportunities," National Institute of Allergy and Infectious Diseases (NIAID) of the National Institutes of Health (NIH) National Institute of Allergy and Infectious Diseases National Institutes of Health, Penang, Malaysia, October 4-6, 2010
107. LaBaer, J. Invited NIH Protein Capture Workshop. Office of the Director (OD), National Institutes of Health NIH Department of Health and Human Services, Bethesda MD, October 20-21, 2010
108. LaBaer, J. Invited Speaker, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Research Conference in Biomedicine "NanoMedicine: from Bench to Bedside," Sant Feliu de Guixols (Costa Brava), Spain, October 23-28, 2010
109. LaBaer, J. Invited, Breast Cancer Research Foundation Seminar, New York, October 26-27, 2010
110. LaBaer, J. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 1-2, 2010
111. LaBaer, J. Invited Plenary, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Department of Cellular and Molecular Medicine, University of Copenhagen, November 11-12, 2010
112. LaBaer, J. EDRN meeting, Denver. CO, November 15-16, 2010
113. LaBaer, J. PSI: Biology Annual Meeting, Bethesda MD, December 8-9, 2010
114. LaBaer, J. Invited Plenary, "Protein Microarrays for Protein Biomarker and Interaction Studies." International Symposium on Mapping the Human Proteome: Getting to the Heart of Proteomics, NHLBI Proteomics Center at UCLA and the UCLA Proteomics Initiative, January 5-6, 2011

115. LaBaer, J. Invited Plenary, “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” The Breast Cancer Symposium "Think Tank 20," Lombardi Comprehensive Cancer Center - Georgetown University Medical Center, Montego Bay, Jamaica, January 16-22, 2011
116. LaBaer, J. Invited participant. “Basic Sciences Provocative Questions Workshop,” National Cancer Institute, Lawton Chiles International House (Stone House), Bethesda, MD, February 10, 2011
117. LaBaer, J. Invited participant. “Grand Challenges in Proteomics Workshop,” Biotechnology Subcommittee of the National Science and Technology Council’s (NSTC) Committee on Science to prepare a white paper for submission to the Office of Science and Technology Policy (OSTP) of the Executive Office of the President of the United States of America. Gaithersburg, MD, February 14-15, 2011
118. LaBaer, J. Invited Plenary, “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” Biodesign Institute Seminar, Arizona State University, Tempe, AZ, February 24, 2011
119. LaBaer, J. Keynote Address, “Early detection research and personalized medicine,” 24th International Conference on Screening for Lung Cancer, The International Early Lung Cancer Action Program, Scottsdale, AZ, February 25, 2011
120. LaBaer, J. Invited participant. “Think Tank/Mini workshop on Companion Imaging and Molecular Diagnostics,” National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Bethesda, MD, February 28, 2011
121. LaBaer, J. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, March 1, 2011
122. LaBaer, J. Participant, 22nd EDRN Steering Committee Meeting, National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Covell Commons, University of California, Los Angeles, CA March 8-10, 2011
123. LaBaer, J. Participant, Second Annual NCI Physical Sciences – Oncology Center (PS-OC). Network Investigators’ Meeting. La Jolla, CA April 10-12, 2011.
124. LaBaer, Invited Plenary, Head Start-“UP” 2011, “Antigen Biomarkers for the Early Detection of Breast Cancer,” Palo Alto, CA, May 10, 2011.
125. LaBaer, J. Advisor, UCSF Breast Oncology Program SPORE IAB/EAB internal review meeting. San Francisco, CA, May 17-19, 2011.
126. LaBaer, J. Invited participant, Quantum Leap Healthcare Collaborative (Quantum), Workshop “The Role of Pre-competitive Collaborations in Advancing Regulatory Science and Enabling Evidence-Based Review.” Sausalito, CA, May 22-24, 2011.
127. LaBaer, J. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, June 20-21, 2011
128. LaBaer, J. Invited Plenary, Colon Cancer Biomarker Validation Project, Fred Hutchinson Cancer Research Center, Seattle WA, June 24
129. LaBaer, J. Co-Organizer and Co-Chair: National Cancer Institute (NCI), National Heart, Lung, and Blood Institute (NHLBI), Food and Drug Administration (FDA), and American Association for Clinical Chemistry (AACC) Workshop: Statistical Experimental Design Considerations in Research Studies Using Proteomic Technologies, co-chair the session titled “Case Study II (Early Detection of Ovarian Cancer),” Bethesda, Bethesda, MD August 22-23, 2011

130. LaBaer, J. Invited Participant: NCI Clinical Proteomic Tumor Analysis Consortium; Bethesda, MD, August 24, 2011
131. LaBaer J. NCI – Early Detection Research Network DMCC Site visit, Seattle WA August 31, 2011
132. LaBaer, J. 7th NCI – Early Detection Research Network (EDRN) Scientific Workshop, Bethesda MD, September 13-16, 2011
133. LaBaer, J. Invited Plenary, Colon Cancer Mini-symposium, Chang Gung University, Taiwan, September 26-30, 2011
134. LaBaer, J. Invited Plenary, “Making hard decisions. Detecting and managing prostate cancer in the molecular age,” ASU Foundation- President’s Community Enrichment Programs (PCEP), Payson, AZ October 13, 2011
135. LaBaer, J. USC PSOC Symposium, Los Angeles, CA, Oct 17-18, 2011
136. LaBaer, J. Invited Honoree, Mini-Retreat, The Breast Cancer Research Foundation, Memorial Sloan-Kettering Cancer Center, New York, NY, Oct 24, 2011
137. LaBaer, J. Honoree, BCRF Symposium: “Behind the Headlines: Hype vs. Hope in Breast Cancer Research and Management in the News,” The Waldorf Astoria, Jade and Astor Salons, New York, October 25, 2011
138. LaBaer, J. CEGS Special Emphasis Panel Applicant Interview (AI), Bethesda, MD, Nov 3, 2011
139. LaBaer, J. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 7, 2011
140. LaBaer, J. EDRN; Chairman- EDRN Network Consulting Team (NCT) Meeting, Natcher Conference Center, Room D, NIH Campus, Bethesda, MD, Nov 8, 2011
141. LaBaer, J. Protein Structure Initiative (PSI) Annual Meeting, Natcher Conference Center, Bethesda, MD, Dec 13-14, 2011.
142. LaBaer, J. Invited PI, Protein Capture Reagents Consortia Meeting, Bethesda, MD, Dec 15-16, 2011
143. LaBaer, J.; E. Harlow; Invited Presenters, “Biomarkers: Discussion of plans for evaluating NCI’s current activities,” NCI Scientific Program Leaders and Office of Director Staff Retreat. Bethesda, MD, January 24, 2012
144. LaBaer, J., Invited Participant; Tissue Issue Think Tank Meeting, hosted by, Research Advocacy Network, Dallas, February 9, 2012
145. LaBaer, J. Organizer, US HUPO 8th Annual Conference, “From Genes to Function,” PALACE Hotel, San Francisco, March 4-7, 2012
146. LaBaer, J. Session Moderator, US HUPO 8th Annual Conference, “From Genes to Function,” PALACE Hotel, Novel Applications, Tuesday, March 6, San Francisco, March 4-7, 2012
147. LaBaer, J. , “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” US HUPO 8th Annual Conference, “From Genes to Function,” PALACE Hotel, Novel Applications, Tuesday, March 6, San Francisco, March 4-7, 2012
148. LaBaer, J. Invited, National Cancer Institute/ National Institutes of Health, “ Defining Molecularly-Informed Natural History of Occult Neoplasms,” Rockville, MD, March 8-9, 2012
149. LaBaer, J. Host and Participant, 24th EDRN Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network

- (EDRN), Tempe Mission Palms Hotel & Conference Center, Tempe, AZ, March 13-15, 2012.
150. LaBaer, J. PI Participant. Midwest Center for Structural Genomics Annual Meeting. Argonne National Laboratory, Argonne, IL, April 4, 2012
 151. LaBaer, J. “Applying protein microarrays for early disease detection,” The Science Café, Biodesign Institute, Tempe AZ, April 9, 2012
 152. LaBaer, J. The Use of Protein Microarrays and Functional Proteomics to Discover Disease Biomarkers, Mayo Clinic GI Specialty Spring Meeting/ASU/Mayo Collaboration Meeting, Scottsdale, AZ, April 11, 2012
 153. LaBaer, J. NCI Investigators' Network Meeting, Tampa Bay, Florida, April 16-18
 154. LaBaer, J. Presentation: “Biomarker Research on Breast Cancer: New Technology,” National Cancer Institute – Cancer Institute/Hospital of the Chinese Academy of Medical Sciences (CICAMS) meeting, “*Cancer Prevention, Biomarkers and Screening Research in China and the United States: Opportunities for Collaboration,*” Beijing, China. May 9-11, 2012
 155. LaBaer J. Co-Chair Session: Cancer Biomarker Research for Early Diagnosis and Prevention.” National Cancer Institute – Cancer Institute/Hospital of the Chinese Academy of Medical Sciences (CICAMS) meeting, “*Cancer Prevention, Biomarkers and Screening Research in China and the United States: Opportunities for Collaboration,*” Beijing, China. May 9-11, 2012
 156. LaBaer J. Workshop Presentation “Early Detection and Biomarkers” Xian, China, May 12-14, 2012

Thesis:

LaBaer J. A detailed analysis of the DNA-Binding affinity and sequence specificity of the glucocorticoid receptor DNA-binding domain [dissertation]. San Francisco (CA): UCSF; 1989.

Patents:

US Patent 6,800,453
Nucleic-acid programmable protein arrays
Oct. 5, 2004

Research Experience and Supervisors:

Dr. Ignacio Tinoco, Chemistry, UC Berkeley
Chemical synthesis of nucleotides
September 1978 - June 1979

Dr. Leonard F. Bjeldanes, Nutritional Sciences, UC Berkeley
Induction of polycyclic aromatic hydrocarbon-metabolizing enzymes
and cytochrome P450-related enzymes by components
of cruciferous vegetables
June 1979 - June 1981

Dr. J Michael Bishop, Microbiology and Immunology, UCSF
Gene Amplification of oncogenes in tumor cell lines
Summer 1982

Dr. Anthony L. DeFranco, Microbiology and Immunology, UCSF
Mechanisms of B lymphocyte activation by anti-receptor antibodies
January - July 1984

Dr. Keith R. Yamamoto, Biochemistry and Biophysics, UCSF
Molecular analysis of glucocorticoid receptor action
July 1984 - June 1990

Dr. Edward E. Harlow, Jr.
MGH Cancer Center, Harvard University
Cell cycle regulation
July 1993 - 1999