CURRICULUM VITAE

PART I: General Information

DATE PREPARED: November 2020

Name: Joshua LaBaer
Executive Director, The Biodesign Institute
Director, Virginia G. Piper Center for Personalized Diagnostics
Virginia G. Piper Chair of Personalized Medicine
Dalton Endowed Chair of Cancer Research
Professor, School of Molecular Sciences, Arizona State University (ASU)
Adjunct Professor of Medicine - College of Medicine, Mayo Clinic, AZ

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Education:

1977-1981 B.S. **Nutrition** - University of California, Berkeley, CA (UC Berkley)

1981-1989 Ph.D. **Biochemistry and Biophysics** - University of California School of Medicine, San Francisco, CA (UCSF)

1981-1990 M.D. University of California School of Medicine, San Francisco, CA

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.

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	Physician License, Massachusetts Board of Registration in Medicine
1993	Internal Medicine Certification, American Board of Internal Medicine
1995	Medical Oncology Certification, American Board of Internal Medicine
1999	Advanced Cardiac Life Support
2009	Arizona Medical License

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.
Massachusetts General Hospital (MGH) Cancer Center, Harvard University
Cell cycle regulation
July 1993 - 1999

Academic Appointments:

1990-1995	Clinical Fellows in Medicine, Harvard Medical School
1995-1999	Instructor in Medicine, Harvard Medical School
1999-2009	Director, Harvard Institute of Proteomics
2009-Present	Professor of School of Molecular Sciences, ASU
2009-Present	Director, Virginia G. Piper Center for Personalized Diagnostics, ASU
2011-2013	Directorate, The Biodesign Institute, ASU
2011-2013	Chair of the Directorate, The Biodesign Institute, ASU
2013-Present	Biodesign Executive Committee, ASU
2014-Present	Adjunct Professor of Medicine in College of Medicine, Mayo Clinic
2016-2017	Interim Executive Director, The Biodesign Institute, ASU
2017-Present	Executive Director, The Biodesign Institute, ASU

Hospital or Affiliated Institution Appointments:

1995-2009	Instructor in Medicine, Dana-Farber Cancer Institute
1995-2009	Associate Physician, Brigham and Women's Hospital
2013-Present	Research Adjunct Affiliate, Mayo Clinic; Cancer Prevention and Control Program and Women's Cancer Program.
2014-Present	Adjunct Professor of Medicine in College of Medicine, Mayo Clinic
2016-2020	Honorary Professor of Chinese PLA General 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-Present	Director, Virgina G. Piper Center for Personalized Diagnostics, ASU
2009-Present	Professor of Chemistry and Biochemistry, School of Molecular Sciences
2010-Present	Chair, Biodesign Personnel Committee, ASU
2011-2013	Directorate, the Biodesign Institute, ASU
2011-2013	Chair of the Directorate, The Biodesign Institute, ASU
2013-Present	Biodesign Executive Committee
2016-2017	Interim Executive Director, The Biodesign Institute, ASU
2017-Present	Executive Director, The Biodesign Institute, ASU
2020-Present	Director, ASU Biodesign Clinical Testing Laboratory

Professional Societies:

1984-Present	American Association for the Advancement of Science (AAAS)
1989-Present	American College of Physicians
1990-Present	Massachusetts Medical Society
2001-Present	International Human Proteome Organization
2000-Present	U.S. Human Proteome Organization (USHUPO)
2010-Present	American Association of Cancer Research (AACR)
2014-Present	Radiation Research Society

Editorial Boards:

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

Scientific Advisory Boards:

2000-Present	Proteome Society
2000-Present	USHUPO
2000-2011	Protein Forest
2000-2011	Genstruct, Chair
2004-2008	Lumera-Plexera Corporation
2007-2010	Barnett Institute
2007-2011	NRC Genomics and Health Initiative Partnership for Personalized Medicine
2008-Present	Promega Corporation

2008-2013 United States Human Proteome Organization, Treasurer
2009-Present National Cancer Institute (NCI) Board of Scientific Advisors
2010-Present NCI, Division of Cancer Prevention, Early Detection Research Network (EDRN): Chair of the EDRN Executive Committee and Co-Chair of the Steering Committee
2010-Present Center for Sustainable Health – Executive Committee
2011-Present Committee on Biomedicine and Health Outcomes, Chair
2011-Present National Biomarker Development Alliance (NBDA)
2011-Present The Dorothy Foundation, Scientific Advisory Board
2011-Present Provista Diagnostics Scientific Advisory Board
2012-2014 USHUPO, President Elect
2014-2016 USHUPO, President
2013-Present Global Biological Standards Institute (GBSI) Scientific Advisory Council
2014-Present American Type Culture Collection (ATCC) Board of Directors
2016-Present INanoBio Scientific Advisory Board
2020-Present Bio-Rad Laboratories Scientific Advisory Board

Awards and Honors:

1978 Edward Frank Kraft Prize for Outstanding Academic Achievement, U of California
1977-81 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
1986-87 Chancellor's Fellowship
1989 Alpha Omega Alpha
2001-15 Arthur and Rochelle Belfer Foundation Awardee, 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
2014-18 Flinn Foundation Awardee
2016 HUPO 2016 Translational Proteomics Award
2016 Dalton Endowed Chair of Cancer Research
2017 ASU Founder's Faculty Achievement Research Award
2018 Fellow of the National Academy of Inventors (NAI)
2020 Jon W. McGarity Arizona Bioscience Leader of the Year award
2020 Arizona Governor's Innovator of the Year Award – Academia

PART II: RESEARCH, TEACHING, AND CLINICAL CONTRIBUTIONS

A. Funding Information

	COMPLETED		
PI	NIH K08, CA64166 "CDK3 and Cell Cycle Regulation"	1995-2000	
PI	NIH: NIDDK: Functional Genomics of the Beta Cell	1998-2008	1,328,790
PI	NIH: NIAID: New England Research Center of Excellence in Emerging and Biothreat Pathogens	2002-2008	3,867,500
PI	NIH: NIAID: Identifying Targets for Therapeutic Interventions Using Proteomics Technology	2004-2009	8,499,460
PI	NIH: NIGMS: Development and Implementation of a Materials Repository for the PSI	2006-2010	5,815,692
PI	NIH: NCI Functional Proteomics of Breast Cancer	2003-2007	2,415,584
PI	NIH: NHGRI: Automated Clone Evaluation for Functional Proteomics	2004-2007	1,041,775
PI	NIH:NIGMS: Development of a Repository for Glycan-related Enzymes	2010-2012	270,863
PI	NIH: NIAID: Children's Hospital Boston	2010-2012	215,400
PI	Juvenile Diabetes Research Foundation International (JDRF) The Use of Protein Microarrays to study Autoimmunity and Diabetes	2010-2012	599,659
PI	Komen (Susan G.) Breast Cancer Foundation	2010-2011	1,200
PI	Expedition Inspiration Fund for Breast Cancer Research Functional Genomics and Proteomics for the understanding of endocrine resistance in Breast Cancer	2010-2011	10,000
PI	(Contract) Proteomika, S.L.: NAPPA Technology in Molecular Diagnostics- Identification of Diagnostic Autoantibodies in Lung Cancer	2010-2011	84,885
PI	Translational Genomics Research Institute: Autoantibody Screening for Autism	2011-2012	99,639
PI	(Contract) SAIC-Frederick Inc. (NIH: NCI) NCI-SAIC Antibody validation project	2009-2013	599,648
PI	NIH:NCI Discovery Platform for Cancer Antigens	2011-2013	243,689
PI	NIH: NCI Autoantibodies and Breast Cancer	2012-2013	95,744
PI	NIH:NCI NYU Lung Cancer Biomarker Center	2012-2013	108,846
PI	Juvenile Diabetes Research Foundation International (JDRF) Role of Viral Infection in the Development of T1D	2013-2013	112,000
PI	USC (NIH: NCI) YRS 2-5: Multi-Scale Complex Systems Transdisciplinary Analysis of Response to Therapy (MC-START)	2009-2014	1,145,741
PI	NIH: NIDDK A Pipeline for the Production of Bivalent Synthetic Antibodies to the Human Proteome	2011-2014	416,795
Co-I	NIH: NCI Mutation-Specific p53 Antibodies as Biomarkers of Pancreatic Cancer	2012-2014	368,183
Co-I	NIH: NIAMS: A protein array platform for anti-citrulline antibodies in Rheumatoid Arthritis	2012-2014	377,438

PI	ASU-Mayo Seed Grant: Defining the Role of Androgen Receptor in Endocrine-Resistant Breast Cancer	2013-2014	28,833
Co-I	HHS-NIH: Antibody Biomarkers for Early Detection of Tuberculosis	2011-2014	362,025
PI	TRIF: Developing a Pipeline for the Production of Engineered Polymerases	2014-2014	100,000
Co-I	TRIF: NAPPA Enabling: Does Mycobacterium tuberculosis use cellular modiFICations to AMP up virulence	2014-2014	100,000
Co-I	TRIF: Development of a bacterialprotein array to monitor gut microbiome alterations in autism spectrum disorder and other human diseases	2014-2014	100,000
PI	Mayo Clinic Scottsdale: Inflammatory Bowel Disease Biomarker Discovery Project	2014-2015	39,855
Co-I	Phoenix Children's Hospital: Whole Genome and Transcriptome Sequencing Analyses of Desmoplastic Small Round Cell Tumors	2012-2015	220,00
Co-I	Translational Genomics Research Institute (Stand Up 2 Cancer) Personalized Medicine for Patients with BRAF wild-type (BRAFwt) Cancer	2012-2015	75,000
PI	U01 CA086402; UTHSCSA (NIH: NCI: EDRN):Use of Protein Array to Identify Autoantibody Biomarkers in Colorectal Cancer	2014-2015	115,875
PI	W911SR-10-D-0020; Excet, Inc (Army:ECBD): Antigen Identification for Antibodies against Vaccinia Virus Utilizing Nucleic Acid Programmable Protein Arrays (NAPPA) Technology	2014-2015	110,892
PI	R13 CA196182; HHS-NIH-NCI: US HUPO Conference 2015	2015-2016	20,600
PI	U01 CA117374; HHS-NIH-NCI: Biomarker Detection Using NAPPA Tumor Antigen Arrays	2005-2016	4,564,174
Co-I	U54 GM094599; HHS-NIH-NIGMS: Center for Membrane Proteins in Infectious Diseases (MPID)	2010-2016	1,305,630
PI	11028738-01; Engr Arts (HHS-NIH-NIGMS):Piezoelectric Pipetting for High Density Nucleic Acid Programmable Protein Arrays	2012-2016	795,273
Co-I	R21 CA187892; HHS-NIH-NCI: Power analysis tools for biomarker discovery with heterogeneous diseases	2012-2016	795,723
PI	4078; Excet, Inc: Antigen and Epitope Identification for Antibodies against Yersinia pestis Utilizing Nucleic Acid Programmable Protein Arrays (NAPPA) Technology	2015-2016	110,708
Co-I	Translational Genomics Research Instittue (TGen): TMA Microbiome	2016-2016	43,000
PI	U01 GM098912; HHS-NIH-NIGMS: Continuation and Enhancement of the PSI: Biology-Materials Repository	2011-2017	1,414,689
Co-I	FP00001458; GBSI: Design and Creation of a Registry for Housing Standard Procurement Operating Procedures for Tissue Collection	2014-2017	416,000

Co-I	FP00006831; Arizona Alzheimer's Disease Core Center: Using protein arrays to find molecular antibody biomarkers in Alzheimer's Disease	2016-2017	30,000
PI	ARI-208289; ASU- MAYO Seed Grant: qPCR-based Bio-burden Testing of Duodenoscopes	2016-2017	43,000
PI	HHS0100201000008C; BARDA: Integrated Biodosimetry System (IBiS) for High Throughput Medical Care After Radiologic and Nuclear Events	2009-2018	34,685,397
Co-I	ASU FDN (Kleberg Foundation): Does Mycobacterium tuberculosis use cellular modiFICations to survive in human macrophages	2014-2018	200,000
PI	R21 CA196442; HHS-NIH-NCI: Multiplexed In Solution Protein Array (MISPA) for identifying novel protein interactions in cancer and for early detection of immune responses in path	2015-2018	672,075
Co-I	1531991; NSF-BIO-DBI: MRI: Acquisition of Cryo-EM for Southwest Regional Center	2015-2018	2,825,509
PI	MMSA 12/05/16 16-0027-10-18; Dignity Health dba St. Joseph's Hospital and Medical Center: MMSA Research: Global antibody immune response profiling in lung transplantation patients	2018-2018	250,000
PI	1991; ASU FDN (Flinn Foundation): Flinn-JL) Establishment of a high throughput protein production center to empower translational research in Arizona (ASUF 30005389)	2014-2019	1,000,000
PI	R24 GM120465; HHS-NIH-NIGMS: DNASU, the Plasmid Materials Repository, 2020 and Beyond	2016-2019	1,671,156
PI	FP00005524; CIATEJ: Search and validation of biomarkers for tuberculosis in Mexican patients with diabetes mellitus	2016-2019	57,000
PI	1032238-ASU; BARROW INST/ST JOS HOSP (NIH): Targeting Olig2 Co-Regulators for Malignant Glioma Therapy	2015-2020	675,940
Co-I	16X118; Leidos (HHS-NIH): Center for Membrane Protein Drug Discovery (MEDD)	2016-2020	800,553
Co-I	TRENT-17-01; TGEN: CRS Microbiome	2017-2020	300,000
	ACTIVE		
PI	BCRF: Breast Cancer 1000 Project: Covering genes that collaborate with mutant TP53 to drive breast cancer aggressiveness	2012-2020	500,000
PI	708-110998-2; MRIGlobal: Clinical Validation and Biodosimetry High Throughput Diagnostic Tests	2017-2020	1,595,414
PI	R01 AI113725; HHS: National Institutes of Health (NIH): Real-time Detection of Active TB in HIV Exposed Children on Customized Nanotrap	2017-2020	1,278,330
PI	R21 AI126361; HHS: National Institutes of Health (NIH): Multiplexed Quantification of Circulating Peptidomic Signatures for EBOLA Early Diagnosis	2017-2020	373,141

Co-PI	2020-NIH-ASU-001; INanoBio, Inc. (HHS-NIH): Tools and Methods for Producing High Quality Functional Protein Microarrays for Biomarker Discovery	2018-2020	255,247
PI	2189; ASU FDN (Flinn Foundation): An Integrated Metagenomics and Immunoproteomics Study of the Role of Microbiome in Pouchitis Development	2018-2020	200,000
PI	W911NF19C0039; DOD-DARPA: Biological Technologies Office (BTO): Diagnostic Epigenetics of Infectious agents and Chemical Toxicity (DEPICT)	2019-2020	4,539,173
PI	ARI-261211; Mayo Clinic Arizona: Screening for Anti-Microbial Antibodies in UC and CD Patient	2020-2020	68,100
Co-PI	AWD00035563; Arizona Department of Health Services: Student-Cohort Studies of SARS-CoV-2 Infection and Immunology	2020-2020	3,500,000
PI	R01 CA199948; HHS-NIH-NCI: Exploiting the immune response to detect pathogen-induced cancers	2015-2021	2,427,423
Co-I	UNR-17-09; UNIV OF NEVADA – RENO: Discovery of Secreted Circulating and In Vivo Amplified Bacterial Antigens	2016-2021	943,837
PI	U01 CA214201; NCI: - Novel approaches to study immune responses to post translational modifications for cancer detection	2016-2021	2,452,601
Co-PI	R33 CA217702; HHS: National Institutes of Health (NIH): Validation and Advanced Development of Albumin Oxidizability as a Marker of Plasm	2018-2021	1,091,880
PI	R01 DK120357; HHS: National Institutes of Health (NIH): Identification of Anti-Neo-Antigen AutoAntibodies in Type 1 Diabetes	2018-2021	1,646,295
PI	LTR 12/14/18; ASU FDN (Leo and Annette Beus): cXFEL Project Phase I	2019-2021	10,000,000
Co-PI	ARI-256553; Mayo Clinic Arizona: Verification and Clinical Testing of ASU-Mayo Quantitative Bioburden Testing by qPCR	2019-2021	65,499
PI	CTR050514; Arizona Department of Health Services: ADHS ISA # CTR050514: COVID-19 Saliva Based Testing	2020-2021	12,733,000
PI	R41 GM134782; Tango Biosciences, Inc. (HHS-NIH): Array Based Affinity Selections	2020-2021	68,000
PI	ARI-256833; Mayo Clinic Arizona: Novel immunology and proteomic biomarkers in response to CAR T-cells	2020-2021	42.000
PI	21X089; Leidos (HHS-NIH): Multiplexed in-solution serological test for SARS-CoV-2, human coronaviruses and other respiratory pathogens	2020-2025	14,922,843
843	U01 AI148319; HHS: National Institutes of Health (NIH): Rapid Low-Cost Paper-based Biodosimetry that reveals individual organ injuries	2020-2025	2,283,658
PI	R24 GM137776; HHS: National Institutes of Health (NIH): NIGMS National and Regional Resources - DNASU	2020-2025	5,513,882

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

C. Report of Teaching

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

Harvard Medical School

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

Cold Spring Harbor Laboratory

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

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, 3hrs/ 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

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 Services on the Brigham and Women's inpatient service: 160 hour/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 "Annual": "Biochemistry of Cancer" Special Topics Class –Department of Chemistry: 25 Students
2013	Invited Guest lecturer, "Functional Proteomics Applications for Target and Biomarker Discovery," Fall Biological Design core course, Biodesign Institute, BDI-Auditorium
2014	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry
2015	Invited Guest Lecturer, BCH 462, Professor Neal Woodbury, April 14, 2015- 10:30am-11:45am
2015	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry
2016	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry
2017	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry
2017	Invited Guest Lecturer, "R&D Administration within Large Organizations", School of the Future of Innovation in Society (SFIS), ISTB, B280, January 24, 2017 1:45pm-2:45pm
2017	Invited Guest Lecturer, CHM 501 for new students, Chemistry (CHM), PSH 130, August 10, 2017 2:00pm – 3:00pm
2018	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry
2019	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry

2020	BCH 598 Spring Course: "Biochemistry of Cancer; Special Topics"-Department of Chemistry

c. Advisees/Trainees

Pascal Braun	Graduate Student, Ph.D. (1997-03) Post-Doctorate Fellow with Gavin MacBeath Lab Department of Chemistry and Chemical Biology (Harvard) *Currently* Group Leader at Technische Universität München Visiting Scientist at HelmholtzZentrum München
Yanhui Hu	Post-Doctoral Fellow (2000-04) Harvard Institute of Proteomics *Currently*: Bioinformatician at Harvard Medical School
Bhupinder Bhullar	Post-Doctoral Fellow (2000-05) Harvard Institute of Proteomics *Currently:* Scientist at Novartis, Lab Head at Novartis Institutes for Biomedical Research
Lisa M. Hines	Post-Doctoral Fellow (2001-04) Harvard Institute of Proteomics University of Colorado Health Sciences Center *Currently*: Department of Biology, University of Colorado at Colorado Springs, Colorado
Jaehong Park	Post-Doctoral Fellow (2001-05) Harvard Institute of Proteomics *Currently:* Associate Director, TMED Oncology, Takeda Pharmaceuticals, Boston, MA
Carol Chang	Graduate Student, M.S. (2002-04) Institute of Chemistry & Cell Biology (Harvard)
Tallamraju VS Murthy	Post-Doctoral Fellow (2002-08) Harvard Institute of Proteomics *Currently*: Applications Manager, Thermo Fisher Scientific
Manuel Fuentes Garcia	Post-Doctoral Fellow (2004-08) Harvard Institute of Proteomics *Currently:* Associate Professor, Centro de Investigación del Cáncer/IBMCC, Departamento de Medicina y Servicio General de Citometría, University of Salamanca, Spain
Niroshan Ramachandran	Post-Doctoral Fellow (2004-07) Harvard Institute of Proteomics

	Currently: Director of Product Management, NanoString Technologies, Seattle, WA
Daniel Schiwek	Post-Doctoral Fellow (2004-07) Harvard Institute of Proteomics *Currently*: Manager, Sales and Business Development, Lonza Biotechnology Pharmaceutical, Detroit Michigan
Wagner Montor	Post-Doctoral Fellow (2004-08) Harvard Institute of Proteomics *Currently*: Adjunct Professor of Medicine at FCMSCSP - Santa Casa de São Paulo Medical School, Brazil
Laura Gonzalez	Post-Doctoral Fellow (2004-09) Harvard Institute of Proteomics *Currently:* Clinical Curation Scientist, Ashion Analytics, Phoenix, AZ
Marcin Pacek	Post-Doctoral Fellow (2006-08) Harvard Institute of Proteomics *Currently*: R&D Director at iLine Microsystems Bilbao Area, Spain Biotechnology
Sahar Sibani	Post-Doctoral Fellow (2006-09) Harvard Institute of Proteomics *Currently*: Senior Manager, Merck Millipore Pharmaceuticals, San Diego, CA
Sean Rollins	Post-Doctoral Fellow (2007-2009) Harvard Institute of Proteomics *Currently*: Assistant Professor, Fitchburg State University, MA
Sanjeeva Srivastava	Post-Doctoral Fellow (2007-10) Harvard Institute of Proteomics *Currently:* Associate Professor, Department of Biosciences and Bioengineering, Indian Institute of Technology Bombay, India (IITB).
Shane Miersch	Post-Doctoral Fellow (2007-10) Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics *Currently:* Senior Research Associate at Terrence Donnelly Centre for Cellular and Biomolecular Research at U of Toronto. Toronto, Canada
Lin Li Lu	Post-Doctoral Fellow (2007-09) Harvard Institute of Proteomics

Rodrigo Barderas	Post-Doctoral Fellow (2007-09) Harvard Institute of Proteomics *Currently*: Faculty of Chemistry, Complutense University of Madrid, Spain
Fernanda Festa	Post-Doctoral Fellow; (2007-14) Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics @ ASU *Currently:* Research Scientist Fox Chase Cancer Center, Philadelphia,PA *Currently:* Professor Departamento de Bioquímica y Biología Molecular
Zahra Moradpour	Post-Doctoral Fellow; (2008-10) Harvard Institute of Proteomics & V.G. Piper Center for Personalized Diagnostics, Arizona State University *Currently:* Department of Pharmaceutical Biotechnology, University of Medical Sciences, Shiraz, Iran
Clinton Mielke	Graduate Student Ph.D. (2009- 2013) Biodesign Graduate Initiatives, Arizona State University *Currently:* Founder at Infinome, Information Technology & Services, San Francisco
Carlos Morales-Betanzos	Graduate Student Ph.D (2009-14) Dept of Chemistry/Bio Chemistry, Arizona State University *Currently:* Research Scientist, Vanderbilt University
Xiaobo Yu	Post-Doctoral Fellow (2010-14) V.G. Piper Center for Personalized Diagnostics Arizona State University *Currently:* Principal Investigator, Beijing Proteome Research Center, National Center for Protein Sciences, Beijing China
Gokhan Demirkan	Post-Doctoral Fellow (2011-2014) V.G. Piper Center for Personalized Diagnostics Arizona State University *Currently:* Scientist at NanoString Technologies, Inc.
Justin Saul	Graduate Student, Masters (2009-14) Chemistry/Bio Chemistry, Arizona State University *Currently*: Research Specialist, VG Piper Center for Personalized Diagnositcs
Xiaofang Bian	Graduate Student Ph.D. (2009-2015) Biodesign Graduate Initiatives, Arizona State University *Currently*: Scientist III, Thermo Fisher Scientific

Jie (Ryan)Wang	Graduate Student Ph.D. (2009-2015) Biodesign Graduate Initiatives, Arizona State University *Currently*: Bioinformatics Scientist, Caris Life Sciences
Haoyu Wang	Graduate Student M.S. (2013- 2016) Chemistry/Biochemistry, Arizona State University *Currently*: Columbia University- Master of Science Program in Biostatistics under Mailman School of Public Health
Brianne Petritis	Graduate Student Ph.D (2009-2018) Biodesign Graduate Initiatives, Arizona State University
Femina Rauf	Assistant Researh Scientist (2012- Present) V.G. Piper Center for Personalized Diagnostics Arizona State University
Xiangwei Peng	Graduate Student PhD (2017-2020); Statistics/Modeling School of Mathematical and Statistical Scieneces, Arizona State University

Current Postdoctoral Scholars:

Lusheng Song	Post-Doc Fellow (2013-) V.G. Piper Center for Personalized Diagnostics Arizona State University
Joy Blain	Post-Doc Fellow (2016-) V.G. Piper Center for Personalized Diagnostics Arizona State University

Current Graduate Students:

Anasuya Pal	Graduate Student Ph.D. (2012-); Chemistry/Biochemistry, Arizona State University
Yanyang Tang	Graduate Student Ph.D. (2013-); Chemistry/Biochemistry, Arizona State University
Mahasish Shome	Graduate Student Ph.D. (2016-); Chemistry/Biochemistry, Arizona State University
Jennifer Hesterman	Graduate Student Ph.D. (2019-Present); ASU
Inam (Miryam) Ridha	Graduate Student Ph.D. (2019-Present); ASU

PART III: BIBLIOGRAPHY

Original Articles, Reviews, Chapters, and Editorials

1. Defranco, A. L., J. Labaer, K. A. Fahey and R. Y. Tsien (1985). "Crosslinkage of membrane IGM causes an increase in cytoplasmic calcium via phosphoinositide hydrolysis." Federation Proceedings 44(4): 1297-1297.
2. Labaer, J., R. Tsien and A. Defranco (1985). "Anti-receptor antibodies stimulate a rise in intracellular calcium in lymphocytes-b." Clinical Research 33(2): A381-A381.
3. Labaer, J., R. Y. Tsien, K. A. Fahey and A. L. Defranco (1986). "Stimulation of the antigen receptor on Wehi-231 B-Lymphoma cells results in a voltage-independent increase in cytoplasmic calcium." Journal of Immunology 137(6): 1836-1844.
4. LaBaer, J. Rapid sequencing of miniprep DNA using Sequenase and end-labeled sequencing primer. *US Biochemicals*, 1989 (Comments) 15: 19–20.
5. Garabedian, M. J.; LaBaer, J.; Liu W-H; Thomas J. Analysis of protein–DNA Interactions. *Gene Transcription - A Practical Approach*; Oxford University Press: Oxford, 1993; 243–295.
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6. Brazilian International Genome Conference. Angra Dos Reis, Rio De Janeiro, Brazil. 2001.
7. Human Proteome Project Symposium. McLean, Virginia. 2001.
8. Second International Structural Genomics Meeting. Arlie Center,Virginia. 2001
9. Harvard-Armenise Symposium on Cancer Biology and Genomics and Post-Genomics. Grand Hotel Borromee, Lago Maggiore, Italy. 2001
10. Genomics and Proteomics of the Kidney. National Institutes of Health. Bethesda, Maryland. 2001.
11. Keynote Address. Asan-Harvard Medical International Symposium, Genomics and Proteomics: Impact on Medicine and Health. Seoul, South Korea. 2001
12. Chips to Hits. Sheraton San Diego Hotel and Marina. San Diego, California. 2001
13. Proteomic Summit. Perkin Elmer Life Sciences. Boston, Massachusetts. 2001
14. Human Proteome Project Conference. San Diego, California. 2002
15. Medical Grand Rounds. Children's Hospital of Philadelphia. Philadelphia, Pennsylvania. 2002.
16. Keynote Address. Pharma R&D Directions. Cancun, Mexico. 2002
17. Session Chair. Proteomics and the Proteome. Geneva, Switzerland. 2002
18. Defining the Mandate of Proteomics in the Post-Genomics Era. National Academy. Washington, D.C. 2002
19. ACI Proteomics. Boston, Massachusetts. 2002
20. ABRF. Denver, Colorado. 2003
21. Yale Biotech Speaker Series. New Haven, CT. 2003
22. Protein Production & Crystallization Workshop. Bethesda, MD. 2003
23. IRI Frontiers of Technology Conference. Allentown, PA. 2003

24. Journal of Proteome Research Editorial Advisory Board meeting. Washington, DC. 2003
25. Society of University Surgeons Genomics Workshop in St. Louis, MO February 2004
26. IBC USA Conferences Inc. Advances in Protein Science in Boston, MA April 2004
27. St. Paul's Hospital James Hogg iCAPTURE Centre for Cardiovascular and Pulmonary Research iCAPTURE seminar series in Vancouver, BC Canada May 2004
28. Fondation des Treilles "RNA Interference" colloquium in Nice, France June 2004
29. GeneExpression Systems, BioArrays 2004 meeting in New York, NY July 2004
30. ESF Functional Genomics Programme / MolTools Workshop: Ligand Binders against the Human Proteome in Clare College, Cambridge, England September 2004
31. Keynote Address. Cambridge Healthtech Institute's PepTalk Conference, Protein Arrays: Complex Challenges—Creative Solutions. San Diego, California 2005
32. Speaker. 2nd Annual Symposium on Enabling Technologies for Proteomics (ETP). Calgary, AB Canada 2005.
33. Session Chair. New England Regional Center of Excellence/Biodefense and Emerging Infectious Diseases: 2nd Annual Retreat. Durham, NH 2005.
34. Vanderbilt University Medical Center - Mass Spectrometry Research Center: "Clinical Proteomics: Today and Tomorrow," Workshop. Nashville, TN 2005.
35. Keynote Speaker. 2005 ASEICA Congresonacional (Association Espanola De Investigacion Sobre El Cancer. Pamplona, Spain 2005.
36. Speaker. Association of American Cancer Institutes (AACI): 2005Annual Meeting. Washington, DC 2005.
37. Speaker. 2006 Federal Biodefense Research FY: Pre-Conference Symposium, "The State of the Art in Biodefense Research." Washington, DC 2005.
38. ABRF International Symposium: "Integrating Science, Tools and Technologies with Systems Biology." Long Beach, CA 2006.
39. Lead Moderator & Organizing Committee. National Institute of Standards and Technology (NIST): "Measurement Challenges In Proteomics." Boston, MA 2006.
40. Program Chair. HUPO Biomarker Cardiovascular Disease Initiative: 1st Workshop. Boston, MA 2006.
41. Keynote Lecture. Biomedicum Helsinki: "Functional Genomic: Making the Whole More than the Sum of its Parts." Helsinki, Finland 2006.
42. Guest Speaker. Eastern Virginia Medical School: Department of Microbiology and Molecular Cell Biology. Norfolk, VA 2006.
43. Speaker. Wadsorth David Axelrod Institute Symposium: "Genomics: The Science Today and the Vision for Tomorrow." Albany, NY 2006.
44. Keynote Speaker. IBC Life Science: "Discovery 2 Diagnostics and 13th Annual Chips to Hits Conference." Boston, MA 2006.
45. State-of-the-Art Lecturer. 2006 Annual HUPO World Conference. "Transforming Proteomics from Bench to Bedside." Long Beach, CA 2006.
46. Featured Speaker. Cambridge Healthtech Initiative: PepTalk – Protein Arrays. San Diego, CA 2007.
47. Speaker Expedition Inspiration Fund for Breast Cancer Research (EIFBRC): 11the Annual Laura Evans Memorial Breast Cancer Symposium, "The Transformation of Breast Cancer Management From Clinical Care to Clinical Science." Sun Valley, ID 2007.
48. Featured Speaker. Centro Nacional de Investigaciones Oncológicas: Madrid, Spain. March, 2007
49. Guest Speaker. Biotechnology Research Institute: Montreal, Canada. April 2007.

50. Featured Speaker. Cambridge Healthtech Initiative: Proteomics--Dynamics of Change: Beyond Genome. San Francisco, CA. June 2007.
51. Guest Speaker. Systematics Biology- towards automated biology Symposium Zurich, Switzerland. September 2007.
52. Featured Speaker. "The Protein Island Matsuyama International Symposium" 4th Matsuyama International Symposium on Cell-free Sciences in Matsuyama, Japan September 2007.
53. Featured Speaker. Breast Cancer Symposium "Think Tank 18" in Big Island, Hawaii. January, 2008.
54. Featured Speaker. International Cancer Biomarker Consortium in Honolulu Big, Hawaii. February, 2008.
55. Featured Speaker. Smith College Seminar for the Biochemistry Program in Northampton, Massachusetts. March, 2008
56. Featured Speaker. Harvard School of Public Health Bioinformatics Forum in Boston, Massachusetts. April, 2008
57. Featured Speaker. AACC Oak Ridge Conference in San Jose, California. April, 2008
58. Keynote Speaker. Cambridge Healthtech Institute, PEGS: The Definitive Protein Engineering Summit "Recombinant Antibodies" Conference, in Boston, Massachusetts. April, 2008
59. Featured Speaker. National Genome Research Network in Heidelberg, Germany. May, 2008
60. Keynote Speaker. Qatar Foundation Seminar, Doha, Qatar. May, 2008
61. Featured Speaker. 12th Annual Armenise-Harvard Foundation Symposium Stresa, Italy June, 2008
62. Featured Speaker. NHGRI Proteomic Sequence & Function Workshop, Rockville, MD. July, 2008
63. Featured Speaker. Protein Society 2008 Symposium San Diego, CA. July, 2008
64. Guest Speaker. HUPO 2008 Amsterdam, Netherlands, August, 2008
65. Guest Speaker. Biomarker Discovery Summit Philadelphia, PA, September, 2008
66. Featured Speaker. TBIO Seminar Havana, Cuba November, 2008
67. Featured Speaker. Georgetown University Seminar Washington, D.C December, 2008
68. Featured Speaker. Breast Cancer Symposium "Think Tank 19" in Big Island, San Jose, Costa Rica. January, 2009
69. Featured Speaker. Distinguished Lectureship in Proteomic Sciences at UCLA Los Angeles, California. January, 2009
70. Featured Speaker. Pittcon 2009 in Chicago, Illinois. March, 2009
71. Featured Speaker. The Otto Herz Memorial Lectureship in Cancer Research at Tel Aviv University in Tel Aviv, Israel. March, 2009
72. Featured Speaker. Centro de Investigacion del Cancer (CIC-IBMCC) in Salamanca, Spain. April, 2009
73. Featured Speaker. PABSELA Microbial Pathogenesis for Partners Harvard Medical International in Cordoba, Argentina. September, 2009
74. Featured Speaker. NCI's Structural Biology and Molecular Applications, "Transient Molecular Workshop," San Francisco, CA , August 24-28, 2009
75. Featured Speaker. NCI – Early Detection Research Network, Scientific Workshop, Bethesda, MD, August 31-Sept 2, 2009
76. 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. 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. Serve as a co-chair at the session on Young Investigator Awards, Annual HUPO World Congress, Toronto Canada, Sept 28-30, 2009
79. Featured Speaker: “Functional proteomics and medicine.” Nanoforum XXII, Genova, Italy, October, 2009
80. 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. Honoree - BCRF 2009 Research, Scientific meeting (“mini retreat”) held at Memorial Sloan-Kettering Cancer Center New York City, Oct 26-28, 2009
82. 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. 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. Speaker, PSI Annual Meeting 2009, “PSI Material Repository,” National Institutes of Health Campus, Bethesda, MD December 8-10, 2009
85. Invited Guest Speaker, Juvenile Diabetes Foundation of Arizona, Scottsdale, December 2009
86. Served as Host, Early Detection Research Network Meeting, Tempe, AZ, March 1-3, 2010
87. “High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery,” 2010 US HUPO Annual Conference, Denver, CO March 7, 2010
88. 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. Invited Speaker, “Harnessing the Proteome for Personalized Diagnostics,” Virginia G. Piper Foundation, Board of Trustee, Phoenix, AZ, April 12, 2010
90. Invited Speaker, UCSF Breast SPORE – EAB Meeting, San Francisco, CA, April 21, 2010
91. Panel Presentation, PSI: Biology High-Throughput Enabled Structural Biology Partnerships; Experimental Biology Meeting, Anaheim Convention Center, Anaheim CA April 22, 2010
92. Invited Speaker, Wistar Institute, Distinguished Seminar Series, Philadelphia, PA, May 12, 2010
93. Invited Lecturer, “Proteomics in Translational Genetic Research,” Pediatric Grand Rounds; Phoenix Children’s Hospital (PCH), Phoenix, AZ. May 18, 2010.
94. 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. Invited to serve as a PhD thesis examiner, Lund University, Sweden June 17, 2010
96. Board of Scientific Advisors (BSA) Meeting. National Cancer Institute National Institutes of Health. Bethesda, MD June 28-29, 2010
97. 10th Annual Midwest Center for Structural Genomics [MCSG] Meeting, Argonne National Laboratory, Argonne, IL July , 2010
98. “Materials Repository” PSI: Biology – Initial Meeting of the PSI:Biology Network, July 19-20, 2010, Bethesda, MD

99. PS-OC Trans-Network Proposal "Understanding of drug resistance in breast cancer by correlative structure-function analysis." Denver CO, August 1-2, 2010
100. EDRN Orientation and Planning Meeting, in Rockville, MD, August 11-13, 2010
101. EDRN investigators orientation and planning meeting. Rockville, MD, August 11-13, 2010
102. NCI/DCP Early Detection Research Network (EDRN) Network Consulting Team Meeting, Rockville, MD, September 2, 2010
103. 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. 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. Project Lead Participant - USC PSOC Site Visit – Los Angeles CA, September 30, 2010
106. 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. 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. 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. Invited, Breast Cancer Research Foundation Seminar, New York, October 26-27, 2010
110. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 1-2, 2010
111. 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. EDRN meeting, Denver. CO, November 15-16, 2010
113. PSI: Biology Annual Meeting, Bethesda MD, December 8-9, 2010
114. 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. 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. Invited participant. "Basic Sciences Provocative Questions Workshop," National Cancer Institute, Lawton Chiles International House (Stone House), Bethesda, MD, February 10, 2011

117. 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. 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. 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. 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. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, March 1, 2011
122. Participant, 22nd EDRN Steering Committee Meeting, National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Covel Commons, University of California, Los Angeles, CA March 8-10, 2011
123. Participant, Second Annual NCI Physical Sciences – Oncology Center (PS-OC). Network Investigators' Meeting. La Jolla, CA April 10-12, 2011.
124. Invited Plenary, Head Start-"UP" 2011, "Antigen Biomarkers for the Early Detection of Breast Cancer," Palo Alto, CA, May 10, 2011.
125. Advisor, UCSF Breast Oncology Program SPORE IAB/EAB internal review meeting. San Francisco, CA, May 17-19, 2011.
126. 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. Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, June 20-21, 2011
128. Invited Plenary, Colon Cancer Biomarker Validation Project, Fred Hutchinson Cancer Research Center, Seattle WA, June 24
129. 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. Invited Participant: NCI Clinical Proteomic Tumor Analysis Consortium; Bethesda, MD, August 24, 2011
131. NCI – Early Detection Research Network DMCC Site visit, Seattle WA August 31, 2011
132. 7th NCI – Early Detection Research Network (EDRN) Scientific Workshop, Bethesda MD, September 13-16, 2011
133. Invited Plenary, Colon Cancer Mini-symposium, Chang Gung University, Taiwan, September 26-30, 2011
134. 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. USC PSOC Symposium, Los Angeles, CA, Oct 17-18, 2011

136. Invited Honoree, Mini-Retreat, The Breast Cancer Research Foundation, Memorial Sloan-Kettering Cancer Center, New York, NY, Oct 24, 2011
137. 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. CEGS Special Emphasis Panel Applicant Interview (AI), Bethesda, MD, Nov 3, 2011
139. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 7, 2011
140. EDRN; Chairman- EDRN Network Consulting Team (NCT) Meeting, Natcher Conference Center, Room D, NIH Campus, Bethesda, MD, Nov 8, 2011
141. Protein Structure Initiative (PSI) Annual Meeting, Natcher Conference Center, Bethesda, MD, Dec 13-14, 2011.
142. Invited PI, Protein Capture Reagents Consortia Meeting, Bethesda, MD, Dec 15-16, 2011
143. 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. Invited Participant; Tissue Issue Think Tank Meeting, hosted by, Research Advocacy Network, Dallas, February 9, 2012
145. Organizer, US HUPO 8th Annual Conference, "From Genes to Function," PALACE Hotel, San Francisco, March 4-7, 2012
146. 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. "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. Invited, National Cancer Institute/ National Institutes of Health, " Defining Molecularly-Informed Natural History of Occult Neoplasms," Rockville, MD, March 8-9, 2012
149. 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. PI Participant. Midwest Center for Structural Genomics Annual Meeting. Argonne National Laboratory, Argonne, IL, April 4, 2012
151. "Applying protein microarrays for early disease detection," The Science Café, Biodesign Institute, Tempe AZ, April 9, 2012
152. 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. NCI Investigators' Network Meeting, Tampa Bay, Florida, April 16-18
154. 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. 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. Workshop Presentation "Early Detection and Biomarkers" Xian, China, May 12-14, 2012.

157. Invited to present results to: BARDA CBRN Diagnostics Biodosimetry In –Process Review (IPR). June 8, 2012, Washington DC, June 8, 2012
158. High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery. Microbiology and Immunology Seminar Series, Albert Einstein College of Medicine, New York, New York, June 11, 2012
159. Joint Meeting, National Cancer Advisory Board and the National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, June 24-25, 2012
160. Co-Chair of the *Catch and Display:* Protein Capture Agents + Arrays session. The 2012 World Congress of the Human Proteome Organization (HUPO), Boston, Massachusetts, September 9 - 13, 2012.
161. Editors' Meeting, the Journal Of Proteome Research, Boston, MA, September 10, 2012
162. Invited Speaker and Participant. Forum for the Asian-Pacific Biosignature Center (APBC), Tianjin International Institute for Joint Biotechnology and Medicine, Tianjin China, September 24-26, 2012
163. Executive Committee, and Participant, 25th EDRN Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), San Antonio, TX, October 2-4, 2012.
164. Invited, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Spanish National Institute of Proteomics (ProteoRed consortium), Madrid, Spain Bitechnology Center, Madrid, Spain. October 15, 2012
165. Invited. "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Cancer Research Center, Salamanca, Spain October 16, 2012
166. Invited, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," III ProteoRed-ISCIII Protein Microarrays Course, Scientific Park-Universidad Complutense de Madrid (University of Madrid-CSIC), Madrid, Spain, October 18-20, 2012.
167. Honoree, Breast Cancer Research Foundation, BCRF Symposium: Magical Wands to Make Cancers Disappear: Fantasy or the Future? The Waldorf Astoria, Jade and Astor Salons, New York, October 30, 2012
168. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 5, 2012
169. Invited Participant, Think Tank II, Research Advocacy Network, Grand Hyatt, Dallas, TX Nov 14-15, 2012
170. Keynote Address, High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery, Principle Investigator's Retreat for the National Cancer Institute's (NCI) Innovative Molecular Analysis Technologies (IMAT) program, Methodist Research Hospital Institute in Houston, TX, on Nov. 27-28, 2012.
171. Session Chair, Cellular Pathway Tools, Principle Investigator's Retreat for the National Cancer Institute's (NCI) Innovative Molecular Analysis Technologies (IMAT) program, Methodist Research Hospital Institute in Houston, TX, on Nov. 27-28, 2012.
172. Seminar: High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery, Department of Biochemistry, Virginia Tech Life Science Seminars (VTLSS) / Molecular Cell Biology and Biotechnology (MCBB), Virginia Polytechnic Institute and State University, Blackburg, VA, November 29-30, 2012
173. 2nd Annual Protein Capture Reagents Network Meeting, NIH and USDHHS, Rockville, MD December 10-11, 2012
174. PSI: Biology Technologies Workshop, National Institute of General Medical Sciences, Bethesda, MD, December 12, 2012

175. Annual Meeting of the PSI Network Investigators, Natcher Conference Center room D on the NIH campus in Bethesda MD, December 13-14, 2012
176. Keynote Address: High-Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery, PepTalk–the Protein Science Week, Cambridge Healthtech Institute, Palm Springs, CA, January 24, 2013
177. Invited Guest Panelists, Voice America Radio: Episode- The Role of Tissue Collection in Cancer, Speaker, Cancer Support Community, Frankly Speaking About Cancer, Feb. 2013
178. Board Committee Member, National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, March 4, 2013
179. Translational Proteomics: Biology, Technology and Clinical Advances, US HUPO 9th Annual Conference, Baltimore Hilton - Baltimore, MD, March 10-13, 2013
180. "Autoantibodies in Basal-like Breast Cancer?" 8th Early Detection Research Network (EDRN) Scientific Workshop, Bethesda, Maryland, March 13-15, 2013
181. "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," Departments of Molecular & Cellular Biology and Cellular and Molecular Medicine, MCB-CMM Seminar Series. University of Arizona, Tucson AZ, March 21, 2013
182. "High-throughput Biomarker Discovery using cell-based and protein-arrays." 7th Annual Arizona Myeloma Network, Myeloma Research Roundtable, Chaparral Suites Ballroom, Scottsdale, Arizona, March 22, 2013
183. High-throughput Biomarker and Target Discovery using Cell-based Assays and Protein Arrays. Technology Assessment Committee Meeting; College of American Pathologists (CAP). Phoenix, AZ March 23, 2013
184. Keynote Address. "Challenges in the Biomarker Development Lifecyle: So Many "Biomarkers" "Discovered" – So Few Approve." The National Biomarker Development Alliance (NBDA) Workshop II, Scottsdale, Arizona. March 25, 2013
185. Invited Speaker, "Improving patient care with personalized diagnostics." The Dorothy Foundation, Arizona Biltmore Resort, Phoenix Arizona, May 3, 2013
186. Invited, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery." Department of Biochemistry, Harland G. Wood Memorial Lecture, Case Western Reserve University, School of Medicine, Cleveland, OH, May 14, 2013.
187. Invited Participant. NIH Common Fund Workshop to Address Opportunities in Glycomics and Glycobiology, Bethesda, MD, May 22-23, 2013
188. -Throughput Cell based Studies and Protein Microarrays: for Biomarker and Target Discovery, Cancer Center Grand Rounds (CCGR), Mayo Clinic, Scottsdale, AZ, May 30, 2013.
189. Invited, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," The Methodist Hospital Research Institute, Houston, TX, June 4, 2013
190. Joint Meeting, National Cancer Advisory Board and the National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, June 23-25, 2013
191. Provista Diagnostics Scientific Advisory Board meeting, New York, July 12, 2013
192. Invited, Think Tank, "The Emerging Intersection between the Physical Sciences and Oncology," USC Physical Sciences in Oncology Center, Banbury Conference Center, Cold Spring Harbor Laboratory NY, July 12-14, 2013.
193. High-Throughput Cell based Studies and Protein Microarrays: for Biomarker and Target Discovery, Cancer Center Grand Rounds, Mayo Clinic, Rochester, MN, August 21, 2013.

194. Executive Committee, and Participant, 26th EDRN Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Seattle, WA, September 10-12, 2013.
195. Invited Presentation: High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery. Session: Session 4 "New Tide of Biomarker Discovery," "The Evolution of Technology in Proteomics," 12th Human Proteome Organization Congress, Yokohama, Japan, September 15, 2013.
196. Poster Presentation: High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery. "The Evolution of Technology in Proteomics," 12th Human Proteome Organization Congress, Yokohama, Japan, September 16, 2013.
197. Associate Editor. Journal of Proteome Research Editors Meeting, Yokohama, Japan, Sept 17, 2013
198. Invited, Proteome Scale Identification of Autoantibody Biomarkers in Cancer, 25th Annual Colrain Meeting, Greenfield, MA, October 1-3, 2013.
199. Honoree, Breast Cancer Research Foundation, BCRF Symposium and Award Luncheon: The Waldorf Astoria, Grand Ball Room, New York, October 15, 2013.
200. Board Committee Member, National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, November 7-8, 2013.
201. Invited Seminar Presentation, Bioinformatics Department, Arizona State University/Mayo Clinic, Scottsdale, AZ, November 21, 2013.
202. PSI: Biology Technologies Workshop; Natcher Conference Center (NCC), the NIH Campus, Bethesda, MD, December 9,11, 2013.
203. PI, PSI: Biology Network Principal Investigator and Advisory Board Meeting, The Natcher Conference Center (NCC), NIH Campus, Bethesda, MD, December 10-11, 2013.
204. Moderator, Session 6. 3rd Annual Protein Capture Reagents Program Meeting, National Institutes of Health U.S. Department of Health and Human Services, Rockville, MD, December 16-17, 2013.
205. Presentation, "Protein Work," Ventana (Roche) and the Biodesign Institute, Tucson, AZ., January 6, 2014.
206. "Overview of Biomarker Discovery – the Key Barriers," National Biomarker Development Alliance (NBDA) Forum: Overview of Biomarkers, Barriers to their Development – and Strategies for Change. The National Press Club, Washington DC, January 13, 2014.
207. Board member, Global Biological Standards Institute , GBSI Scientific Advisory Council Inaugural Meeting, Washington DC, January 22, 2014
208. NBDA Workshop IV, Scottsdale, AZ., February 3-4, 2014.
209. Presentation "Breast Cancer" and Co-Chair Session "Biomarker Discovery Pipeline," US-Japan Joint Meeting on Biomarkers for Early Cancer Detection NCI Shady Grove Campus, Room TE 406, Gaithersburg, MD, February 10-11, 2014.
210. Executive Committee, and Participant, 26th EDRN Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Houston, TX March 4-6, 2014
211. Board Meeting, National Cancer Institute National Institutes of Health, Board of Scientific Advisors (BSA), Bethesda, MD, March 6, 2014
212. Presentation and Mandatory - IPR review of a High Throughput Gene Expression Biomarker-Based Radiation Dosimetry, Biomedical Advanced Research and Development Authority (BARDA), Washington DC, March 17, 2014

213. Executive Committee Presentation, "The US-led Chromosome-Centric HPP teams," HUMAN PROTEOME PROJECT, "Frontiers in Proteomics" Annual Meeting, Seattle WA, April 4-9, 2014
214. Presentation Developing Alternative Protein Affinity Reagents for Molecular Medicine, US HUPO "Frontiers in Proteomics" annual Meeting, Seattle, WA, April 4-9, 2014
215. Invited Presentation, "High-Throughput Cell based Studies and Protein Microarrays: for Biomarker and Target Discovery," Arizona Osteopathic Medical Association Meeting, Scottsdale, AZ, April 10,2014
216. Invited Presentation, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," 2014 Baylor Cancer Center/Breast Cancer Program Lecture, Baylor College of Medicine, Houston TX, April 17, 2014
217. Invited Presentation, "High Throughput Cell-Based Studies And Protein Microarrays for Biomarker and Target Discovery," Emerging Technologies for Clinical & Laboratory Diagnostics: The 46th Annual Oak Ridge Conference, American Association For Clinical Chemistry, San Jose, CA, April 25, 2014
218. Invited Presentation, "High Throughput Cell-Based Studies and Protein Microarrays for Biomarker and Target Discovery," 1st International Symposium of Translational Theranostics, Tsinghua University Graduate School in Shenzhen, China. May 26, 2014
219. Joint Meeting; National Cancer Advisory Board and the National Institutes of Health (NCAB), Board of Scientific Advisors (BSA), Bethesda, MD, June 23-24, 2014
220. Invited medical consultant. Knight Cancer Institute, Oregon Health & Science University, School of Medicine, Portland OR, Aug 27-28,2014
221. "Research Updates on EDRN," 9th EDRN Early Detection Research Network (EDRN) Scientific Workshop: Biomarkers at a Crossroad in Personalized Cancer Risk Assessment and Detection, National Cancer Institute, Bethesda, MD, September 8-11, 2014.
222. Invited Presentation: "Autoantibody Biomarkers in Basal-Like Breast Cancer," 9th EDRN Early Detection Research Network (EDRN) Scientific Workshop: Biomarkers at a Crossroad in Personalized Cancer Risk Assessment and Detection, National Cancer Institute, Bethesda, MD, September 8-11, 2014.
223. Invited Presentation, "Improving International Research with Clinical Specimens: 5 Achievable Objectives," Translational Medicine Forum, **MipTec 2014** Conference, Basel, Switzerland September 25, 2014.
224. Associate Editor. Journal of Proteome Research Editors Meeting, Madrid Spain October 5-8, 2014
225. Session Chair, "Advances in Expression and Interaction Proteomics," at the 13th Human Proteome Organization World Congress, The proteome quest to understand biology and disease. Madrid Spain October 5-8, 2014
226. Honoree, Breast Cancer Research Foundation, BCRF Symposium and Award Luncheon: The Waldorf Astoria, Grand Ball Room, New York, October 09, 2014.
227. Invited Knight Cancer Institute Early Detection Think Tank. Oregon Health & Science University, School of Medicine, Portland OR, October 9, 2014.
228. Keynote Address: "Protein Microarrays for Studies in Biomarkers and Post Translational Modificaion", PepTalk–the Protein Science Week, Town and Country Resort & Convention Center, San Diego, CA, January 21, 2015.
229. Conference Chair, 11th Annual US HUPO Conference: "Next Generation Proteomics", Tempe Mission Palms Hotel, Tempe, AZ, March 15-18, 2015.

230. Invited Presentation, “What’s the Hottest Topics We Work on and What’s the Biggest Obstacles Impeding Us”, FUSION 2015: A Biodesign Scientific Retreat, Carefree Resort and Conference Center, Carefree, AZ March 20-21 2015
231. Board Committee Meeting, ATCC Global Board of Directors Meeting, Manassas, VA, March 22- 24 2015
232. Invited Presentaion, “Protein Microarrays for Studies in Biomarkers and Post Translational Modification”, Stanford Early Detection Seminar Series, Stanford, CA March 26-27 2015
233. Executive Committee, and Participant, 29th EDRN Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Atlanta, GA March 30-April 2, 2015
234. Invited Panel Discussant and Invited Presentation, “Harnessing the Proteome for Personalized Diagnostics”, International Society for Biological and Environmental Repositories (ISBER) 2015, Sheraton Phoenix Downtown, Phoenix, AZ, May 5-9, 2015.
235. Invited Presentation, “Nucleic Acid Programmable Protein Arrays for Tracking Global Immune Responses”, The Environmental Determinants of Diabetes in the Young (TEDDY), Hyatt Regency Bethesda, Bethesda, MD, May 19, 2015.
236. Invited Lecture and Seminar, “High-Throughput Protein Microarrays for Personalized Diagnostics”, Fudan University, Shanghai China, May 25-29, 2015.
237. Invited Presentation, “IVTT-coupled proteomic identification of missing proteins”, C-Human Proteome Project 2015 Workshop at the European Proteomics Association annual Congress (EuPA2015), Milan, Italy, June 23-24, 2015.
238. Invited Collaborative Initiative, Sackler Convergence Lab, W Hotel, Boston, MA, July 7-8, 2015.
239. Invited Reviewer, Breast Cancer Research Program, Dulles Hyatt, Herndon, VA, August 10-12, 2015.
240. Invited Presentation, “Proteomics MicroArray Platforms” 5TH Nordic Proteomics Symposium, Clarion Hotel and Congress Malmö Live, Malmo, Sweden, August 23-25, 2015.
241. Invited Discussant, Breast Cancer Symposoim, ASCO Breast, San Francisco Marriott Marquis, San Francisco CA, September 24-25, 2015.
242. Invited Presentation and Session Organizer, “Sample Preparation for Proteomics” HUPO 2015 Congress, Vancouver Convention Centre, Vancouver, CA, September 27-30, 2015.
243. Invited Speaker, “High-Throughput Protein Microarrays for Personalized Diagnostics” Wenzhou International Forum on LaBoratory Medicine, Wenzhou Medic al College, Wenzhou, China, October 31-November 1, 2015.
244. Invited Speaker, “High-Throughput Protein Microarrays for Personalized Diagnostics” Tongji University and Fudan University, Shanghai, China,November 2-3, 2015.
245. Board Committee Meeting, ATCC Global Board of Directors Meeting, Manassas, VA, November 15-17, 2015.
246. Invited Speaker, “Can we use our immune sytems to detect cancer for us” MRM Cancer Support Group Lecture Series, Donovan’s Steakhouse, Phoenix, AZ 85016, November 19, 2015
247. Invited Speaker “Protein Microarrays for Studies in Biomarkers and Post Translational Modification” Tata Institute of Fundamental Research (TIFR) &Targeted Proteomics Workshop and International Symposium at Indian Institute of Technology Bombay, India, December 11-14, 2015.
248. BARDA-ASU IPR, Washington, D.C., January 21, 2016

249. Invited Collaborative Initiative, Sackler Convergence Lab, W Hotel, Boston, MA, January 29, 2016
250. Board member, Global Biological Standards Institute , GBSI Summit, Washington DC, February 9, 2016
251. Offset Projects, National Taiwan University, Taiwan, China, Feb 16-19, 2016
252. Invited Speaker "Protein Microarrays for Studies in Biomarkers and Post Translational Modification" ABRF 2016 Annual Meeting, Ft. Lauderdale, FL, Febraury 22-23, 2016
253. Invited Speaker, "High Throughput Protein Microarrays for Biomarker and Target Discovery" AMED-NCI Cancer Workshop, Tokyo Japan, March 6-9, 2016
254. Conference Chair, 21th Annual US HUPO Conference: "Proteomics: From New Technology to New Biology", Westin Waterfront Hotel, Boston, MA, March 13-16, 2016.
255. Board member, Global Biological Standards Institute , GBSI Scientific Advisory Board Meeting Meeting, Washington DC, March 16, 2016
256. Executive Director, FUSION 2016: A Biodesign Scientific Retreat, Carefree Resort and Conference Center, Carefree, AZ April 1, 2016
257. Board Committee Meeting, ATCC Global Board of Directors Meeting, Manassas, VA, April 13-14, 2016.
258. Invited Seminar Speaker, "Cell free methods for producing proteim microarrays" University of California, Irvine, Department of Pharmaceutical Science, Irvine, CA, April 20, 2016.
259. Invited Speaker, "Protein Microarrays for Studies in Biomarkers and Post Translational Modification" Protein Engineering Summit (PEGS), Seaport World Trade Center, Boston, MA, April 28, 2016.
260. Invited Discussant, San Fransisco Scientific Symposium, University of California, San Fransisco. April 30- May 2, 2016.
261. Invited Seminar Speaker, "Cell free methods for producing protein microarrays" The Division of Neurobiology Conference Series, Barrow Neurological Institute, Phoenix, AZ, May 10, 2016.
262. Invited speaker and recipient of Honorary Professor of Beijing 301 Hospital, "Cell free methods for producing protein Microarrays", Beijing Phoenix Center and 301 Hospital, Beijing, China, May 25-June 4, 2016.
263. Invited Participant, "CRS, animal models and manipulating the nasal microbiome workshop." Flinn Foundation, Phoenix, AZ, June 17, 2016.
264. Response to AzTE M11-067L Arizona Technologies Enterprises, LLC. // MBHB 11-426-PCT-US (2016-05-20), Interview with Examiner, USPTO, Alexandria, VA, June 21, 2016.
265. Techwatch Meeting (M & Q), BARDA, Washington D.C., June 22, 2016.
266. Invited Participant with Petra Fromme, Kickoff meeting of the NCI Chemical Biology Consortium, NIH Campus, Bethesda, MD, June 23-24 2016.
267. Invited Speaker, "Cell free methods for producing protein microarrays**",** The 30th Anniversary Symposium of the Protein Society, Hyat Regency Baltimore, Baltimore, MD, July 16-19, 2016.
268. Invited Speaker, "Cell free methods for producing protein microarrays**",** The Roche symposium on "Molecular Monitoring on a Chip: Tailoring Surfaces for Bioassays", Forum Buonas, Lake Zug, Switzerland, August 28-30, 2016.
269. Invited Speaker, "Cell free methods for producing protein microarrays", 15th Human Proteome Organization World Congress in 2016 (HUPO 2016), Taipei International Convention Center, Taipei, Taiwan, September 18-22, 2016.

270. Associate Editor, Journal of Proteome Research Editors Meeting, Taipei, Taiwan, September 18-22, 2016.
271. Invited Panelist and Moderator, "The Science Behind Antibody Validation Standards" and "Integration of Recombinant Antibodies", Antibody Validation Workshop, Asilomar Conference Grounds, Pacific Grove, CA, September 25-27 2016.
272. Prinicapal Investigator, BARDA FDA Pre-Submission, Food and Drug Administration Headquarters, Silver Spring, MD, October 5-6, 2016.
273. Executive Committee Chair and Participant, EDRN Planning and Steering Committee Meeting, , National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), DoubleTree by Hilton, Bethesda, MA, October 18-21, 2016.
274. Invited Member, Breast Cancer Reseach Foundation (BCRF), Doubletree by Hilton Metropolitan, New York City, NY, October 26-27, 2016.
275. Invited Speaker, The Environmental Determinants of Diabetes in the Young Study (TEDDY), Tysons Corner Marriott, Tysons Corner, VA, November 7-10, 2016.
276. Board Committee Meeting, ATCC Global Board of Directors Meeting, Manassas, VA, November 14-15, 2016.
277. Invited Seminar Speaker, The University of Arizona, College of Medicine, Tucson, AZ, November 17, 2016.
278. Principal Investigator, 17th Annual Innovative Molecular Analysis Technologies (IMAT) PI Meeting, National Institute of Health, Besthesda, MD, December 1-2, 2016.
279. Invited Speaker, Indo-US Bilateral Workshop cum Symposium and 8th Annual meeting of Proteomic Society, India; 3rd meeting of Asia Oceania Agricultural Proteomics Organization, The Grand Delhi, India, December 8-17, 2016.
280. Principal Investigator, ASU Request for feedback on DARPA 16-42, Washington D.C., January 3-4, 2017.
281. Executive Committee Chair and Participant, 31st EDRN Steering Committee Meeting, National Cancer Institute/Division of Cancer Prevention Early Detection Research Network (EDRN), Tempe Missom Palms, Tempe, AZ, March 7-9, 2017.
282. Invited Speaker, "From Proteomics to the bedside: Translating Discoveries in the Next Generation", American Association for Clinical Chemistry, Inc. (AACC), 13TH Annual US HUPO Conference, Precision Proteomics for Discovery and Health, US Grant Hotel, San Diego, CA, March 19-22, 2017.
283. Inivted Speaker, "Using Functional Proteomics to identify biomarkers and therapeutic targets", 2017 MCTB Symposium, ASU, Tempe, AZ, April 1, 2017.
284. Board Committee Meeting, ATCC Global Board of Directors Meeting, Manassas, VA, April 2-4, 2017.
285. Executive Director, FUSION 2017: A Biodesign Scientific Retreat, Carefree Resort and Conference Center, Carefree, AZ April 7-8, 2017
286. Invited speaker, "Using functional proteomics to identify biomarkers and therapeutic targets", 3rd CeTICS (Center of Toxins, Immune-response and Cell Signaling) Thematic Symposium, Butantan Institute in Sao Paulo, Brazil, May 10-13, 2017
287. Invited speaker, "Impact of post genomic technologies on health care", HTAI Conference, Rome, June 15-22, 2017
288. Invited speaker, "Using functional protomics to identify biomarkers and therapeutic targets", KitePharma, Santa Monica, CA, July 6-7, 2017
289. Invited speaker, "Adapting functional protein microarrays to include post translational modification. New territory for identifying biomarkers and therapeutic targets," Gordon Research Conference, Hong Kong, August 11-15, 2017

290. Invited speaker, “ASU Breast Cancer Research,” Early Detection Research Network (EDRN), Seattle, WA, (September 11-14, 2017
291. Invited speaker, “Session: Implementation of Liquid Biopsy into the Point of Care,” Human Proteome Organization (HUPO), Pre-Congress Liquid Bioposy Workshop, Dublin, Ireland, September 17-21, 2017
292. Invited speaker, “Cell free methods for producing protein microarrays,” Human Proteome Organization (HUPO), Dublin, Ireland, September 17-21, 2017
293. Executive Director, Dublin City University, Dublin, Ireland, September 18, 2017
294. Invited Speaker, Mayo Clinic Phoenix, AZ ASU Trustees Meeting. October 13, 2017
295. Invited Speaker, Lifescape Premier Patient Evebt, Phoenix, AZ, October 25, 2017
296. Invited Speaker, “Immuno-Proteogenomic Predictors for Response to Immunotherapy in Melanoma,” Biomarkers Consortium CSC Annual Meeting, Dallas, TX, November 7, 2017
297. Invited Speaker, “Advance and Applications of Protein Microarrays including the use of Post Translational Modifications,” AACC Conference, San Diego, CA November 9, 2017
298. Invited Speaker, American Society of Biochemistry and Molecular Biology Chapter at Arizona State University, Tempe, AZ, January 18, 2018
299. Invited Speaker, “Overview of Transplant Rejection Research Project,” ASU-Dignity Health CEO Summit, Tempe, AZ, January 31, 2018
300. Invited Guest Speaker, “Sip of Science,” Arizona Horizon TV Show on PBS, Phoenix, AZ, January 31, 2018
301. Invited Speaker, “What would I like to learn from my genome,” Understand your Genome – Think Big presentation, Tempe, AZ, February 22, 2018
302. Invited Lecturer, “Nucleic Acid Programmable Protein Array (NAPPA) for clinical studies.” Mumbai, India February 25, 2018
303. Invited Speaker, Called the ‘Emperor of all Maladies’: Why are We Optimistic About Cancer?” Wiseguise Group, Scottsdale, AZ April 6, 2018
304. Invited Speaker, Country Club at DC Ranch, Scottsdale, AZ April 18th, 2018
305. Invited Speaker, Biological Design Graduate Program, “Experiences on being a Professor/Administrator,” Tempe, AZ April 27, 2018
306. Invited Speaker, Sigma Xi Banquet, Mesa, AZ May 4, 2018
307. Guest Speaker, called the ‘Emperor of all Maladies’: Why are We Optimistic About Cancer?”, “Sip of Science”, Chandler, AZ May 6, 2018
308. Invited Speaker, HonorHealth Scottsdale Shea Medical Center, Scottsdale, AZ May 7, 2018
309. Invited Speaker, TGen, Phoenix, AZ May 29th, 2018
310. Invited Speaker, Fifth Annual Synthetic Biology, Engineering, Evolution, and Design (SEED 2018, Scottsdale, AZ June 6th, 2018
311. Invited Speaker, Chengdu, China June 2018
312. Invited Speaker, Sino-Biodesign Forum, July 23, 2018
313. Invited Speaker, CHM 501 New Students Seminar, August 7th, 2018
314. Presenter, VI at Silverstone, September 9th, 2018
315. Invited Speaker, “Biodesign Overview, President’s Club Luncheon, November 19th, 2018
316. Invited Speaker, “Single Cell Doprlet Technology,” Arizona Horizons, November 30, 2018
317. Invited Speaker, “Disease-Associated Biomarkers,”Sanofi-Pasteur Inc., December 17, 2018
318. Invited Speaker, “Functional Proteome Array Screening Strategies for Biomarkers Discovery,” Fourth Annual Biomarker and Companion Diagnostics Conference, San Diego, CA, February 8, 2019

319. Invited Speaker, “Multiplex In-Solution Protein Array (MISPA) for high throughput, quantitative profiling of protein interactions and detection of immune responses to pathogen induced cancers,” US HUPO Conference, Rockville, MD, March 3-6, 2019
320. Invited Speaker, “Improving Early Detection of Breast Cancer with Auto-anti-Glycoprotein Antibodies,” 34th EDRN Steering Committee Meeting and 6th Annual US Japan Workshop on Cancer Biomarkerts in Collaboration with NCI Early Detection Research Network, Nashville, TN, March 17-20, 2019
321. Invited Speaker, US HUPO Annual Conference, Washington, DC, March 27-18
322. Invited Speaker, “Exploring the Proteome Using Functional Protein Microarrays,” Stowers Institute for Medical Research- Lecture Series Seminar, Kansas City, MO, April 2-3, 2019
323. Invited Speaker, 21st Chromosome-Centric Human Proteome Project, St. Malo, France, May 12-14, 2019
324. Invited Speaker, “Multiplex In-Solution Protein Array (MISPA) for high throughput, quantitative profiling of protein interactions and detection of immune responses to pathogen induced cancers,” Adelaide, Australia, September 15-19, 2019
325. Invited Speaker, “Functional Proteome Array Screening Strategies for Biomarkers Discovery,” Chengdu, China, September 19-22, 2019
326. Invited Speaker, “High-Throughput Expression of Functional Proteins in a Microarray Format,” 8th Symposium of the Mexican Proteomics Society, 3rd PanAmerican-Huam Proteome Organization (Pan-HUPO) Meeting, 1st Ibero-American Symposium on Mass Sectrometry, Acapulco, Mexico, October 20-23, 2019
327. Invited Speaker, “Protein arrays: overview and applications,” II ProteoRed Clinical Proteomics Course, La Coruña, Spain, December 8-12, 2019
328. Keynote Speaker, Engineering Genes, Vectors, Constructs, and Clones - PepTalk - The Protein Science Week. San Diego, CA. January 20, 2020
329. Keynote Speaker, SLAS2020 International Conference and Exhibition"Functional proteome array screening strategies for biomarker discovery" San Diego, CA. January 27, 2020
330. Invited Speaker, Clinical Proteomic Tumor Analysis Consortium Scientific Think Tank (CPTAC). (teleconference due to COVID-19). May 12, 2020
331. Invited Presenter, AZ House Health and Services Committee. Phoenix, AZ. (teleconference due to COVID-19) May 19, 2020
332. Invited Presenter, Large Public Power Council. (teleconference due to COVID-19). May 21, 2020
333. Invited Presenter, Senate Democratic Caucus Presentation. Phoenix, AZ (teleconference due to COVID-19). June 10, 2020
334. Invited Consultant, NIH Common Fund Glycoscience Program (teleconference due to COVID-19). June 16-17, 2020
335. Invited Presenter, Salt River Project Board and Council Work Study Session (teleconference due to COVID-19). June 24, 2020
336. Keynote Speaker, “New Methods for Cell-Free Presentation of Proteins for Functional Analysis,” The Essential Protein Engineering and Cell Therapy Summit 17th annual PEGS conference & expo, Boston, MA (teleconference due to COVID-19). September 3, 2020
337. Invited Speaker, **“**From Bench to Bedside in the COVID-19 Era: The Role of Testing in Clinical Care and Public Health Surveillance,” Health Talks: COVID-19 Series. College of Health Solutions, ASU (teleconference due to COVID-19). September 17, 2020

338. Invited Speaker, “Breaking barriers: How Arizona’s universities are delivering new solutions for COVID testing and diagnosis.” Arizona Wellbeing Commons (teleconference due to COVID-19). October 9, 2020
339. Invited Speaker, “A Multidisciplinary ASU-sized Response to COVID-19.” ASU School of Molecular Sciences Seminar Series (teleconference due to COVID-19). October 16, 2020
340. Invited Member, Breast Cancer Reseach Foundation (BCRF), New York City, NY (teleconference due to COVID-19). October 16, 2020
341. Invited Speaker, **“**Development of a Pan-coronavirus Proteome Serological Assay**,”**19th Human Proteome Organization (HUPO) World Congress. Stockholm, Sweeden (teleconference due to COVID-19). October 20, 2020
342. Executive Committee Chair and Participant, Early Detection Research Network (EDRN) Steering Committee. (teleconference due to COVID-19) October 27-28, 2020
343. Honoree, 2020 Governor’s Celebration of Innovation. (teleconference due to COVID-19) November 4, 2020

Patents:

US Patent 6,800,453; Filing Date: 01/22/2002
Nucleic-acid programmable protein arrays
Issue Date: 10/05/2004

US Patent 8,178,316; Filing Date: 06/28/2007
Evaluating proteins
Issue Date: 05/15/2012

US Patent 8,609,344; Filing Date:08/03/2004
Nucleic-acid programmable protein arrays
Issue Date:12/17/2013

US Patent 9,442,111; Filing Date: 12/12/2012
Method and apparatus for measuring phosphorylation kinetics on large arrays
Issue Date: 09/13/2016

US Patent 9.535.070, Filing Date: 11/06/2013
High Throughput detection of fusion proteins
Issue Date: 01/03/2017

US Patent 9,719,144 Filing Date: 05/25/2012
Microbiome markers and therapies for autism spectrum disorders
Issue Date: 08/01/2017

US Patent 9,857,374 Filing Date: 08/13/2010
Biomarkers for the early detection of breast cancer
Issue Date: 01/02/2018

US Patent 9,938,523 Filing Date: 03/15/2013
Nucleic acid-tagged compositions and methods for multiplexed protein-protein interaction

Issue Date: 04/10/2018

US Patent 10,351,842 Filing Date: 05/14/2015
Nucleic Acid-guided Ordered Protein Assemblies and Methods
Issue Date: 07/16/2019

US Patent 10,435,747 Filing Date: 08/11/2015
Radiation Biodositmetry Systems
Issue Date: 10/08/2019

US Patent 10,618,932 Filing Date: 02/21/2018
A Method for Targeted Protein Quantification by Bar-Coding Affinity Reagents with Unique DNA Sequences
Issue Date: 04/14/2020

US Patent 10,648,978 Filing Date: 02/09/2018
Methods for Detecting Novel Autoantibodies in Crohn's Disease
Issue Date: 05/12/2020

US Patent 10,717,977 Filing Date: 03/17/2014
Nucleic Acid-Tagged Compositions and Methods for Multiplexed Protein-Protein Interaction Profiling
Issue Date: 07/21/2020

US Patent 10,787,710 Filing Date: 08/11/2015
Radiation Biodosimetry Systems
Issue Date: 09/29/2020

US Patent 10,802,026 Filing Date: 08/15/2011
Biomarkers for the Early Detection of Breast Cancer
Issue Date: 10/13/2020