CURRICULUM VITAE

Lynda Chin, M.D.

LyndaChin.com

Dr. Lynda Chin is currently the executive director for ***REDI***, an integration platform for **R**eal-world **E**ducation, early **D**etection and **I**ntervention. Previously, Dr. Chin was the Chief Innovation Officer and associate vice chancellor for health affairs at the University of Texas System, where she developed ***REDI*** as an ecosystem platform that connects consumers and patients, traditional and new entrant healthcare providers, with data and analytics, technology and services, for more effective and patient-centered chronic disease management.

Dr. Chin graduated with a B.A. degree from Brown University and a M.D. degree from Albert Einstein College of Medicine. She conducted her clinical and scientific training at Columbia Presbyterian Medical Center and the Albert Einstein College of Medicine in NY, where she completed in parallel her residency training in the hospital and postdoctoral fellowship in the laboratory. Dr. Chin began her independent career as a solo practice board-certified dermatologist in NYC, learning first hand what it meant to provide care in the front line; this experience has motivated her interest to leverage technology for democratization of evidence-based care in community settings. Dr. Chin next went on to pursue a productive academic research career at Dana-Farber Cancer Institute where she was a professor at Harvard Medical School and a senior associate member at the Broad Institute of MIT and Harvard. Her research program spanned the fields of transcription, telomere biology, cancer genomics, and personalized cancer medicine. She held multiple leadership roles in US project, The Cancer Genome Atlas (TCGA), and was the principle investigator driving development of *Firehose*, a pipeline designed to make TCGA data not only available but usable to the broader biology and clinical communities. Dr. Chin has been a member of the Scientific Steering Committee of the International Cancer Genome Consortium (ICGC), and is actively involved in conceptualizing the next phase of ICGC, ICGC-ARGO (Accelerating Research on Genomic Oncology). For scientific accomplishment, Dr. Chin was elected to the National Academy of Medicine in 2012.

Dr. Chin joined MD Anderson Cancer Center from 2011-2015 as the founding chair for the Department of Genomic Medicine. Instead of the traditional research-focused model, Dr. Chin defined the mission of the new department as one to bring to bear on cancer not only the transformative potential of science and genomics, but also of data, technologies and innovative strategies. As chair, she launched the efforts to create the Translational Research Accelerator, a big data platform built to integrate longitudinally research and clinical care data at MD Anderson to accelerate translational research. She also conceptualized and led the development of MD Anderson Oncology Expert Advisor© powered by IBM Watson to explore how AI analytics can be responsibly deployed to democratize evidence-based care.

Throughout her career, Dr. Chin has championed integration, collaboration and cooperation between the research and clinical care enterprises, as well as between public and private sectors. She was the Scientific Director of the Belfer Institute for Applied Cancer Science at Dana-Farber Cancer Institute and subsequently the Institute for Applied Cancer Science at MD Anderson, an organization designed to bring together the best attributes of academia and industry in a new organizational construct to rapidly translate cancer genomics knowledge into effective therapeutic endpoints. To re-imagine a data-rich and technology-enabled care delivery ecosystem that can more effectively address the rising chronic disease burden, Dr. Chin brought together major industry partners, such as PwC, AT&T, IBM and Walmart, to develop and operationalize the REDI platform in one of the poorest communities in US to show how collaboration and purposeful data sharing can improve diabetes management for a vulnerable population.

Dr. Chin has co-founded biotechnology companies in cancer therapeutics and biomarkers. Most recently, she has launched Apricity Health, with a mission to address not only quality of care but quality of life for patients with technology, data and analytics, initially focusing on cancer immunotherapy.

PRESENT TITLE AND AFFILIATION

Primary Appointment

Executive Director, REDI Platform, Health Affairs, The University of Texas System

Professor of Medicine, Dell Medical School, the University of Texas at Austin, Austin, TX

CITIZENSHIP

United States

OFFICE ADDRESS

The University of Texas System
Email: lchin@utsystem.edu

EDUCATION

Degree-Granting Education

Brown University, Providence, RI, BS, Magna Cum Laude, 1988, Neuroscience

Albert Einstein College of Medicine, Bronx, NY, MD, 1993, Medicine

Postgraduate Training

Clinical Internship, Medicine, Columbia Presbyterian Medical Center, New York, NY, 1993-1994

Clinical Residency, Dermatology, Albert Einstein College of Medicine, Bronx, NY, 1994-1997

Research Fellowship, Molecular Genetics, Albert Einstein College of Medicine, Bronx, NY, 1994-1997

CREDENTIALS

Board Certification

Diplomat of the National Board of Medical Examiners, 1994

Diplomat of the American Board of Dermatology, 1997

Licensures

Active

New York State Medical License, #201011, 1995

Drug Enforcement Administration, 1996

Inactive

Massachusetts State Medical License, #161171

Massachusetts Controlled Substance License

EXPERIENCE/SERVICE

Academic Appointments

Instructor, Dept of Medicine, Albert Einstein College of Medicine, Bronx, NY, 1997-1998

Assistant Professor, Dept of Dermatology, Harvard Medical School, Boston, MA, 1998-2004

Associate Professor, Dept of Dermatology, Harvard Medical School, Boston, MA, 2005-2009

Professor, Dept of Dermatology, Harvard Medical School, Boston, MA, 2009-2011

Professor, Dept of Genomic Medicine, Division of Cancer Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX, 2011 – 2015

Professor, Dept of Medicine, Dell Medical School, the University of Texas Austin, Austin, TX, 2015 – Present

Administrative Appointments/Responsibilities

Co-Director, The Arthur & Rochelle Belfer Cancer Genomics Center of Dana-Farber Cancer Institute, Boston, MA, 1999-2004

Scientific Director, The Belfer Institute for Applied Cancer Science, Dana-Farber Cancer Institute, Boston, MA, 2004-2011

Scientific Director, MD Anderson Institute for Applied Cancer Science, Houston, TX, 2011-2015

Chair, Dept of Genomic Medicine, Division of Cancer Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX, 2011-2015

Director, Institute for Health Transformation, the University of Texas System, 2015 – 2017

Associate Director, Digital Medicine, Texas Medical Center Innovation Institute, 2015 – 2017

Executive Director, REDI Platform, the Univeristsy of Texas System, 2017 – present

Other Appointments/Responsibilities

Chief Resident, Department of Dermatology, Albert Einstein College of Medicine, Bronx, NY, 1996-1997

Attending Physician, Weiler Hospital, Albert Einstein College of Medicine, Bronx, NY, 1997-1998

Attending Physician, Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, 1997-1998

Attending Physician, Jacobi Medical Center, Albert Einstein College of Medicine, Bronx, NY, 1997-1998

Assistant Physician, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, 1998-2011

Chair, Skin Organ Site Subcommittee, Mouse Model of Human Cancer Consortium (MMHCC), 1999-2004

Member, Steering Committee, NCI-sponsored Mouse Model of Human Cancer Consortium (MMHCC), 1999-present

Member, Internal Review Committee for HMS Dermatology Residency Training Program, Massachusetts General Hospital, Boston, MA, 2000

Member, Harvard Faculty Fellowship Committee, Harvard Medical School, Boston, MA, 2004-2010

Member, The BBS Corporate Affiliate Committee, Harvard Medical School, Boston, MA, 2004-2011

Member, Harvard MD-PhD Program Subcommittee on Admission, Harvard Medical School, Boston, MA, 2005-2008

Member, Scientific Committee, 22nd EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, 2009-2010

Co-Leader, Program in Melanoma, Dana-Farber/Harvard Cancer Center, Boston, MA, 2009-2011

Member, Conflict of Interest Committee, Dana-Farber Cancer Institute, Boston, MA, 2009-2011

Associate Member, The Broad Institute of MIT and Harvard, Cambridge, MA, 2009-2011

Senior Associate Member, The Broad Institute of MIT and Harvard, Cambridge, MA, 2011-2015

The Human Oncology and Pathogenesis Program (HOPP), External Advisory Board, Memorial Sloan Kettering Cancer Center (MSKCC), New York, NY, 2009-present

The Koch Institute of MIT, External Advisory Board, Boston, MA, 2010 – present

The Scientific Planning Committee, International Cancer Genome Consortium (ICGC) - ARGO, 2015 – present

Endowed Positions

M.G. & Lillie A. Johnson Chair for Cancer Treatment and Research, The University of Texas MD Anderson Cancer Center, Houston, TX, 2012 - 2015

HONORS AND AWARDS

Valedictorian, Franklin D. Roosevelt High School, 1984

Westinghouse Science Competition Semi-finalist, 1984

Honors Degree in Neuroscience, Brown University, 1988

Magna Cum Laude, Brown University, 1988

Albert M. Kligman Fellowship, Society for Investigative Dermatology, 1997

LaLezari Awards for Research Excellence, 1998

World Congress Fund Award, 1998

The V Foundation Award, 1999

The Wilson S. Stone Memorial Award, 2000

BASF Bioresearch Corporation Award, 2001

The Barr Investigator Award, 2001

The Charles E. Culpeper Scholarships in Medical Science, 2001

The Dunkin' Donut Rising Star Award, 2001

The Goldhirsh Brain Tumor Foundation Research Award, 2002

The James S. McDonnell Foundation 21st Century Research Award, 2003

The Claire and Richard Morse Research Award, 2004

The Milstein Innovation Award, American Skin Association, 2009

Elected, The National Academy of Medicine (Institute of Medicine), 2012

UT System Chancellor's Health Fellow on Healthcare Data and Analytics, University of Texas System, 2014

Estela Medrano Memorial Award, Society for Melanoma Research, 2014

Lila and Murray Gruber Memorial Cancer Research Award, American Academy of Dermatology, 2014

RESEARCH

Grants and Contracts

Funded

Project Principal Investigator, Genetics and Biology of Pancreatic Ductal Adenocarcinoma, P01 CA117969 08, NIH/NCI, 4/15/2006-12/31/2015

Co-Principal Investigator, Harvard Genome Characterization Center in the Cancer Genome Atlas, U24 CA144025 04, NIH/NCI, PI - Kucherlapati/Chin, 8/1/2009-7/31/2015

Co-Principal Investigator, Uses of GEM models for Translational Cancer Research, U01 CA141508 05, NIH/NCI, PI - Chin/DePinho, 9/1/2009-7/31/2015

Co-Principal Investigator, The Cancer Genome Atlas Data Analysis Center, U24 CA143845 04, NIH/NCI, PI - Chin/Getz, 9/29/2009-7/31/2015

Co-Principal Investigator, Role of Tumor Stroma in Therapeutic Response and Resistance, U54-CA163125 03, NIH/NCI, 9/21/2011-7/31/2016

Principal Investigator, Recruitment Award, R1204, Cancer Prevention & Research Institute of Texas (CPRIT), 12/1/2011-11/30/2016

Principal Investigator, Melanoma Tissue Donation Program, 0727030, Kennedy Memorial Foundation, 1/31/2012-1/30/2017

Project Principal Investigator, Biological annotation of TCGA data, U01 CA168394 02, NIH/NCI, 5/1/2012-4/30/2017

Principal Investigator, Hermelin Brain Tumor Center Genomics Bases Medicine, N/A, Henry Ford Health System, 8/2/2012-8/1/2015

Co-Principal Investigator, Immunologic Checkpoint Blockade in Cancer Therapy, SUC2CR-AACR-DT10, American Association for Cancer Research (AACR), 3/1/2013-2/29/2016

Project Principal Investigator, Overcoming Resistance to BRAF (V600E) Targeted Therapies in Melanoma, P01 CA163222 01 A1, NIH/NCI, 3/12/2013-2/28/2018

Co-Investigator, Exosomal RNA in Normal and Melanoma Associated Body Fluids, NIH/NCI, PI - Kalluri, 9/1/2014-8/31/2015

Co-Investigator, UTMDACC Melanoma SPORE Project 4, NIH/NCI, PI - Grimm, 9/1/2014-8/31/2015

Completed

Co-Principal Investigator, Evolution of Primary and Resistant Solid Tumors, U01-CA84313, NIH/NCI, 9/27/1999-3/31/2010

Principal Investigator, The Genetic Basis of Melanoma Metastasis, R01 CA93947, NIH/NCI, 12/10/2001-12/31/2011

Principal Investigator, Genomic Profiling for Drug Response and Resistance, GlaxoSmithKline RCA, 9/12/2006-9/11/2011

Principal Investigator, Tumor Microenvironment Network (TMEN) Genomics & Bioinformatics Core, U54 CA126505, NIH/NCI, 9/25/2006-8/31/2011

Principal Investigator, Cancer Genome Characterization Centers: Array-CGH Technology Platform, U24-CA126554, NIH/NCI, 9/28/2006-8/31/2010

Core Principal Investigator, Gastrointestinal Cancer: Genomics and Bioinformatics Core, P50-CA12703, NIH/NCI, PI - Fuchs/DePinho, Core PI: Chin, 7/1/2007-8/31/2011

Project Principal Investigator, Genetics and Biology of Malignant Glioma Project 3 and Core C, P01 CA95616 10-NCE, NIH/NCI, PI - DePinho, Project PI: Chin/Hahn, 3/1/2008-2/28/2014

Co-Principal Investigator, Skin SPORE Admin Core as co-PI, P50 CA093683, NIH/NCI, PI - Kupper/Chin/Atkins/Duncan, 8/1/2008-10/31/2011

Principal Investigator, Development of intra-tumoral prognostic biomarkers for primary melanoma, Melanoma Research Alliance, 6/1/2009-5/31/2011

Co-Principal Investigator, Functional Annotation of Cancer Genomes: TCGA, Glioblastoma and Ovarian Cancer, RC2 CA148268, NIH/NCI, PI - Hahn/Chin, 9/1/2009-8/31/2011

Principal Investigator, Rational Therapeutic Strategy against BRAF Mutant Melanoma, Milstein Innovation Award, 10/1/2009-9/30/2012

Co-Principal Investigator, Systematic Functional Interrogation of the GBM Genome for Curative Combination Therapy, Ivy Research Award, PI - Chin/DePinho, 1/1/2010-12/31/2012

Patents and Technology Licenses

Patents

Dana-Farber Cancer Institute, **Chin L**, DePinho R, Maser R, Feng B. Inducible Cancer Model to Study the Molecular Basis of Host Tumor Cell Interactions In Vivo, United States, 09/619,247, 7/19/2000-7/19/2020, Issued

Dana-Farber Cancer Institute, DePinho R, **Chin L**. Identifying and Characterizing Genes, United States, 10/112,503, 3/28/2002-1/19/2023, Issued

Dana-Farber Cancer Institute, Stegh A, Kim HG, DePinho R, **Chin L**. BCL2L12 Polypeptide Activators and Inhibitors, United States, 11/259,640, 10/25/2005-1/16/2025, Issued

Dana-Farber Cancer Institute, Heffernan T, **Chin L**. Context Specific Genetic Screen Platform to Aid in Gene Discovery and Target Validation, United States, 61/297,143, 1/21/2010, Filed

Dana-Farber Cancer Institute, **Chin L**, Scott K, Kabbarah O. Compositions, Kits and Methods for the Diagnosis, Prognosis, and Monitoring of Cancer Using GOLPH3, Canada, CA2737106A1, 10/5/2009, Pending

Dana-Farber Cancer Institute, **Chin L**, DePinho R, Maser R, Feng B. Compositions and Methods for Cancer Gene Discovery, United States, 12/601,052, 11/20/2009, Pending

Dana-Farber Cancer Institute, Scott K, Ghosh P, **Chin L**. Signatures and Determinants Associated with Metastasis and Methods of Use Thereof, United States, 13/001,203, 3/31/2011, Pending

Grant Reviewer/Service on Study Sections

NIH Peer-review Study Section on R01 grants, NIH, Member, 2001-2007

PUBLICATIONS

Peer-Reviewed Original Research Articles

1. Simons JA, Freedman EG, Stevenson SB, **Chin L**, Wohlgenant TJ. Clutter interference and the integration time of echoes in the echolocating bat, Eptesicus fuscus. J Acoust Soc Am 86(4):1318-1332, 10/1989.
2. Schreiber-Agus N, **Chin L**, Chen K, Torres R, Thomson CT, Sacchettini JC, DePinho RA. Evolutionary relationships and functional conservation among vertebrate Max-associated proteins: the zebra fish homolog of Mxi1. Oncogene 9(11):3167-77, 11/1994. PMID: 7936639.
3. Schreiber-Agus N, **Chin L**, Chen K, Torres R, Rao G, Guida P, Skoultchi AI, DePinho RA. An amino-terminal domain of Mxi1 mediates anti-Myc oncogenic activity and interacts with a homolog of the yeast transcriptional repressor SIN3. Cell 80(5):777-86, 3/1995. PMID: 7889571.
4. **Chin L**, Schreiber-Agus N, Pellicer I, Chen K, Lee HW, Dudast M, Cordon-Cardo C, DePinho RA. Contrasting roles for Myc and Mad proteins in cellular growth and differentiation. Proc Natl Acad Sci U S A 92(18):8488-92, 8/1995. PMCID: PMC41182.
5. Rao G, Alland L, Guida P, Schreiber-Agus N, Chen K, **Chin L**, Rochelle JM, Seldin MF, Skoultchi AI, DePinho RA. Mouse Sin3A interacts with and can functionally substitute for the amino-terminal repression of the Myc antagonist Mxi1. Oncogene 12(5):1165-72, 3/1996. PMID: 8649810.

6. Hatton KS, Mahon K, **Chin L**, Chiu FC, Lee HW, Peng D, Morgenbesser SD, Horner J, DePinho RA. Expression and activity of L-Myc in normal mouse development. Mol Cell Biol 16(4):1794-804, 4/1996. PMCID: PMC231166.
7. Serrano M, Lee H, **Chin L**, Cordon-Cardo C, Beach D, DePinho RA. Role of the INK4a locus in tumor suppression and cell mortality. Cell 85(1):27-37, 4/1996. PMID: 8620534.
8. Alland L, Muhle R, Hou H, Potes J, **Chin L**, Schreiber-Agus N, DePinho RA. Role for N-CoR and histone deacetylase in Sin3-mediated transcriptional repression. Nature 387(6628):49-55, 5/1997. PMID: 9139821.
9. **Chin L**, Pomerantz J, Polsky D, Jacobson M, Cohen C, Cordon-Cardo C, Horner JW, DePinho RA. Cooperative effects of INK4a and ras in melanoma susceptibility in vivo. Genes Dev 11(21):2822-34, 11/1997. PMCID: PMC316663.
10. Pomerantz J, Schreiber-Agus N, Liégeois NJ, Silverman A, Alland L, **Chin L**, Potes J, Chen K, Orlow I, Lee HW, Cordon-Cardo C, DePinho RA. The Ink4a tumor suppressor gene product, p19Arf, interacts with MDM2 and neutralizes MDM2's inhibition of p53. Cell 92(6):713-23, 3/1998. PMID: 9529248.
11. Greenberg RA, Allsopp RC, **Chin L**, Morin GB, DePinho RA. Expression of mouse telomerase reverse transcriptase during development, differentiation and proliferation. Oncogene 16(13):1723-30, 4/1998. PMID: 9582020.
12. **Chin L**, Pomerantz J, DePinho RA. The INK4a/ARF tumor suppressor: one gene--two products--two pathways. Trends Biochem Sci 23(8):291-6, 8/1998. PMID: 9757829.
13. **Chin L**, Merlino G, DePinho RA. Malignant melanoma: modern black plague and genetic black box. Genes Dev 12(22):3467-81, 11/1998. PMID: 9832500.
14. Greenberg RA, O'Hagan RC, Deng H, Xiao Q, Hann SR, Adams RR, Lichtsteiner S, **Chin L**, Morin GB, DePinho RA. Telomerase reverse transcriptase gene is a direct target of c-Myc but is not functionally equivalent in cellular transformation. Oncogene 18(5):1219-26, 2/1999. PMID: 10022128.
15. FitzGerald MJ, Arsura M, Bellas RE, Yang W, Wu M, **Chin L**, Mann KK, DePinho RA, Sonenshein GE. Differential effects of the widely expressed dMax splice variant of Max on E-box vs initiator element-mediated regulation by c-Myc. Oncogene 18(15):2489-98, 4/1999. PMID: 10229200.
16. **Chin L**, Artandi SE, Shen Q, Tam A, Lee SL, Gottlieb GJ, Greider CW, DePinho RA. p53 deficiency rescues the adverse effects of telomere loss and cooperates with telomere dysfunction to accelerate carcinogenesis. Cell 97(4):527-38, 5/1999. PMID: 10338216.
17. Greenberg RA, **Chin L**, Femino A, Lee KH, Gottlieb GJ, Singer RH, Greider CW, DePinho RA. Short dysfunctional telomeres impair tumorigenesis in the INK4a(delta2/3) cancer-prone mouse. Cell 97(4):515-25, 5/1999. PMID: 10338215.
18. **Chin L***, Tam A, Pomerantz J, Wong M, Holash J, Bardeesy N, Shen Q, O'Hagan R, Pantginis J, Zhou H, Horner JW, Cordon-Cardo C, Yancopoulos GD, DePinho RA* (Co-corresponding author). Essential role for oncogenic Ras in tumour maintenance. Nature 400(6743):468-72, 7/1999. PMID: 10440378.
19. Orlow I, Rabbani F, **Chin L**, Pomerantz J, Ligeois N, Dudas M, DePinho R, Cordón-Cardó C. Involvement of the Ink4a gene (p16 and p19arf) in murine tumorigenesis. Int J Oncol 15(1):17-24, 7/1999. PMID: 10375589.
20. **Chin L**, DePinho RA. Flipping the oncogene switch: illumination of tumor maintenance and regression. Trends Genet 16(4):147-50, 4/2000. PMID: 10729826.
21. Artandi SE, Chang S, Lee SL, Alson S, Gottlieb GJ, **Chin L**, DePinho RA. Telomere dysfunction promotes non-reciprocal translocations and epithelial cancers in mice. Nature 406(6796):641-5, 8/2000. PMID: 10949306.
22. Wong KK, Chang S, Weiler SR, Ganesan S, Chaudhuri J, Zhu C, Artandi SE, Rudolph KL, Gottlieb GJ, **Chin L**, Alt FW, DePinho RA. Telomere dysfunction impairs DNA repair and enhances sensitivity to ionizing radiation. Nat Genet 26(1):85-8, 9/2000. PMID: 10973255.

23. Lu Y, Lian H, Sharma P, Schreiber-Agus N, Russell RG, **Chin L**, van der Horst GT, Bregman DB. Disruption of the Cockayne syndrome B gene impairs spontaneous tumorigenesis in cancer-predisposed Ink4a/ARF knockout mice. Mol Cell Biol 21(5):1810-8, 3/2001. PMCID: PMC86742.
24. Bardeesy N, Bastian BC, Hezel A, Pinkel D, DePinho RA, **Chin L**. Dual inactivation of RB and p53 pathways in RAS-induced melanomas. Mol Cell Biol 21(6):2144-53, 3/2001. PMCID: PMC86838.
25. Lee KH, Rudolph KL, Ju YJ, Greenberg RA, Cannizzaro L, **Chin L**, Weiler SR, DePinho RA. Telomere dysfunction alters the chemotherapeutic profile of transformed cells. Proc Natl Acad Sci U S A 98(6):3381-6, 3/2001. PMCID: PMC30662.
26. Wong AK, Alfert M, Castrillon DH, Shen Q, Holash J, Yancopoulos GD, **Chin L**. Excessive tumor-elaborated VEGF and its neutralization define a lethal paraneoplastic syndrome. Proc Natl Acad Sci U S A 98(13):7481-6, 6/2001. e-Pub 6/2001. PMCID: PMC34694.
27. Hemann MT, Rudolph KL, Strong MA, DePinho RA, **Chin L**, Greider CW. Telomere dysfunction triggers developmentally regulated germ cell apoptosis. Mol Biol Cell 12(7):2023-30, 7/2001. PMCID: PMC55650.
28. Yang J, Luan J, Yu Y, Li C, DePinho RA, **Chin L**, Richmond A. Induction of melanoma in murine macrophage inflammatory protein 2 transgenic mice heterozygous for inhibitor of kinase/alternate reading frame. Cancer Res 61(22):8150-7, 11/2001. PMID: 11719444.
29. Sharpless NE, Ferguson DO, O'Hagan RC, Castrillon DH, Lee C, Farazi PA, Alson S, Fleming J, Morton CC, Frank K, **Chin L**, Alt FW, DePinho RA. Impaired nonhomologous end-joining provokes soft tissue sarcomas harboring chromosomal translocations, amplifications, and deletions. Mol Cell 8(6):1187-96, 12/2001. PMID: 11779495.
30. You MJ, Castrillon DH, Bastian BC, O'Hagan RC, Bosenberg MW, Parsons R, **Chin L**, DePinho RA. Genetic analysis of Pten and Ink4a/Arf interactions in the suppression of tumorigenesis in mice. Proc Natl Acad Sci U S A 99(3):1455-60, 2/2002. e-Pub 1/2002. PMCID: PMC122212.
31. Sviderskaya EV, Hill SP, Evans-Whipp TJ, **Chin L**, Orlow SJ, Easty DJ, Cheong SC, Beach D, DePinho RA, Bennett DC. p16(Ink4a) in melanocyte senescence and differentiation. J Natl Cancer Inst 94(6):446-54, 3/2002. PMID: 11904317.
32. Porter D, Lahti-Domenici J, Torres-Arzayus M, **Chin L**, Polyak K. Expression of high in normal-1 (HIN-1) and uteroglobin related protein-1 (UGRP-1) in adult and developing tissues. Mech Dev 114(1-2):201-4, 6/2002. PMID: 12175512.
33. O'Hagan RC, Chang S, Maser RS, Mohan R, Artandi SE, **Chin L**, DePinho RA. Telomere dysfunction provokes regional amplification and deletion in cancer genomes. Cancer Cell 2(2):149-55, 8/2002. PMID: 12204535.
34. Kannan K, Sharpless NE, Xu J, O'Hagan RC, Bosenberg M, **Chin L**. Components of the Rb pathway are critical targets of UV mutagenesis in a murine melanoma model. Proc Natl Acad Sci U S A 100(3):1221-5, 2/2003. e-Pub 1/2003. PMCID: PMC298754.
35. Sharpless NE, Kannan K, Xu J, Bosenberg MW, **Chin L**. Both products of the mouse Ink4a/Arf locus suppress melanoma formation in vivo. Oncogene 22(32):5055-9, 8/2003. PMID: 12902988.
36. **Chin L**. The genetics of malignant melanoma: lessons from mouse and man. Nat Rev Cancer 3(8):559-70, 8/2003. PMID: 12894244.
37. O'Hagan RC, Brennan CW, Strahs A, Zhang X, Kannan K, Donovan M, Cauwels C, Sharpless NE, Wong WH, **Chin L**. Array comparative genome hybridization for tumor classification and gene discovery in mouse models of malignant melanoma. Cancer Res 63(17):5352-6, 9/2003. PMID: 14500367.
38. Aguirre AJ, Brennan C, Bailey G, Sinha R, Feng B, Leo C, Zhang Y, Zhang J, Gans JD, Bardeesy N, Cauwels C, Cordon-Cardo C, Redston MS, DePinho RA, **Chin L**. High-resolution characterization of the pancreatic adenocarcinoma genome. Proc Natl Acad Sci U S A 101(24):9067-72, 6/2004. PMCID: PMC428474.

39. Brennan C, Zhang Y, Leo C, Feng B, Cauwels C, Aguirre AJ, Kim M, Protopopov A, **Chin L**. High-resolution global profiling of genomic alterations with long oligonucleotide microarray. Cancer Res 64(14):4744-8, 7/2004. PMID: 15256441.
40. Allinen M, Beroukhim R, Cai L, Brennan C, Lahti-Domenici J, Huang H, Porter D, Hu M, **Chin L**, Richardson A, Schnitt S, Sellers WR, Polyak K. Molecular characterization of the tumor microenvironment in breast cancer. Cancer Cell 6(1):17-32, 7/2004. PMID: 15261139.
41. Hochedlinger K, Blelloch R, Brennan C, Yamada Y, Kim M, **Chin L***, Jaenisch R* (Co-corresponding authors). Reprogramming of a melanoma genome by nuclear transplantation. Genes Dev 18(15):1875-85, 8/2004. PMCID: PMC517407.
42. Blelloch RH, Hochedlinger K, Yamada Y, Brennan C, Kim M, Mintz B, **Chin L**, Jaenisch R. Nuclear cloning of embryonal carcinoma cells. Proc Natl Acad Sci U S A 101(39):13985-90, 9/2004. e-Pub 8/2004. PMCID: PMC521109.
43. Wang G, Maher E, Brennan C, **Chin L**, Leo C, Kaur M, Zhu P, Rook M, Wolfe JL, Makrigiorgos GM. DNA amplification method tolerant to sample degradation. Genome Res 14(11):2357-66, 11/2004. PMCID: PMC525695.
44. Wang G, Brennan C, Rook M, Wolfe JL, Leo C, **Chin L**, Pan H, Liu WH, Price B, Makrigiorgos GM. Balanced-PCR amplification allows unbiased identification of genomic copy changes in minute cell and tissue samples. Nucleic Acids Res 32(9):e76, 2004. e-Pub 5/2004. PMCID: PMC419625.
45. Bardeesy N, Kim M, Xu J, Kim RS, Shen Q, Bosenberg MW, Wong WH, **Chin L**. Role of epidermal growth factor receptor signaling in RAS-driven melanoma. Mol Cell Biol 25(10):4176-88, 5/2005. PMCID: PMC1087708.
46. Westbrook TF, Martin ES, Schlabach MR, Leng Y, Liang AC, Feng B, Zhao JJ, Roberts TM, Mandel G, Hannon GJ, DePinho RA, **Chin L**, Elledge SJ. A genetic screen for candidate tumor suppressors identifies REST. Cell 121(6):837-48, 6/2005. PMID: 15960972.
47. Tonon G, Wong KK, Maulik G, Brennan C, Feng B, Zhang Y, Khatry DB, Protopopov A, You MJ, Aguirre AJ, Martin ES, Yang Z, Ji H, **Chin L**, DePinho RA. High-resolution genomic profiles of human lung cancer. Proc Natl Acad Sci U S A 102(27):9625-30, 7/2005. e-Pub 6/2005. PMCID: PMC1160520.
48. Wang Y, Putnam CD, Kane MF, Zhang W, Edelmann L, Russell R, Carrión DV, **Chin L**, Kucherlapati R, Kolodner RD, Edelmann W. Mutation in Rpa1 results in defective DNA double-strand break repair, chromosomal instability and cancer in mice. Nat Genet 37(7):750-5, 7/2005. e-Pub 6/2005. PMID: 15965476.
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Invited Articles

1. **Chin L**, Liégeois N, DePinho RA, Schreiber-Agus N. Functional interactions among members of the Myc superfamily and potential relevance to cutaneous growth and development. J Investig Dermatol Symp Proc 1(2):128-35, 4/1996. PMID: 9627706.
2. **Chin L**. Modeling malignant melanoma in mice: pathogenesis and maintenance. Oncogene 18(38):5304-10, 9/1999. PMID: 10498882.

3. Tietze MK, **Chin L**. Murine models of malignant melanoma. Mol Med Today 6(10):408-10, 10/2000. PMID: 11006531.
4. Wong AK, **Chin L**. An inducible melanoma model implicates a role for RAS in tumor maintenance and angiogenesis. Cancer Metastasis Rev 19(1-2):121-9, 2000. PMID: 11191050.
5. Bardeesy N, Wong KK, DePinho RA, **Chin L**. Animal models of melanoma: recent advances and future prospects. Adv Cancer Res 79:123-56, 2000. PMID: 10818679.
6. Yang FC, Merlino G, **Chin L**. Genetic dissection of melanoma pathways in the mouse. Semin Cancer Biol 11(3):261-8, 6/2001. PMID: 11407950.
7. Herlyn M, Padarathsingh M, **Chin L**, Hendrix M, Becker D, Nelson M, DeClerck Y, McCarthy J, Mohla S. New approaches to the biology of melanoma: a workshop of the National Institutes of Health Pathology B Study Section. Am J Pathol 161(5):1949-57, 11/2002. PMCID: PMC1850774.
8. Sharpless E, **Chin L**. The INK4a/ARF locus and melanoma. Oncogene 22(20):3092-8, 5/2003. PMID: 12789286.
9. Kabbarah O, **Chin L**. Revealing the genomic heterogeneity of melanoma. Cancer Cell 8(6):439-41, 12/2005. PMID: 16338657.
10. Tonon G, Brennan C, Protopopov A, Maulik G, Feng B, Zhang Y, Khatry DB, You MJ, Aguirre AJ, Martin ES, Yang Z, Ji H, **Chin L**, Wong KK, DePinho RA. Common and contrasting genomic profiles among the major human lung cancer subtypes. Cold Spring Harb Symp Quant Biol 70:11-24, 2005. PMID: 16869734.
11. Kabbarah O, **Chin L**. Advances in malignant melanoma: genetic insights from mouse and man. Front Biosci 11:928-42, 2006. e-Pub 1/2006. PMID: 16146783.
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13. Stegh AH, **Chin L**, Louis DN, DePinho RA. What drives intense apoptosis resistance and propensity for necrosis in glioblastoma? A role for Bcl2L12 as a multifunctional cell death regulator. Cell Cycle 7(18):2833-9, 9/2008. e-Pub 9/2008. PMID: 18769159.
14. Protopopov A, Feng B, **Chin L**. Full complexity genomic hybridization on 60-mer oligonucleotide microarrays for array comparative genomic hybridization (aCGH). Methods Mol Biol 439:87-100, 2008. PMID: 18370097.
15. Kwong LN, **Chin L**. The metastasis problem gets stickier. Cancer Cell 15(1):1-2, 1/2009. PMID: 19111873.
16. Kwong LN, **Chin L**. The brothers RAF. Cell 140(2):180-2, 1/2010. PMID: 20141832.
17. Dunn GP, Rinne ML, Wykosky J, Genovese G, Quayle SN, Dunn IF, Agarwalla PK, Chheda MG, Campos B, Wang A, Brennan C, Ligon KL, Furnari F, Cavenee WK, DePinho RA, **Chin L**, Hahn WC. Emerging insights into the molecular and cellular basis of glioblastoma. Genes Dev 26(8):756-84, 4/2012. PMCID: PMC3337451.
18. Tsao H, **Chin L**, Garraway LA, Fisher DE. Melanoma: from mutations to medicine. Genes Dev 26(11):1131-1155, 6/2012. PMCID: PMC3371404.
19. Kwong LN, Heffernan TP, **Chin L**. A systems biology approach to personalizing therapeutic combinations. Cancer Discov 3(12):1339-44, 12/2013. PMCID: PMC3864744.
20. **Chin L** and Satell G. How Physicians Can Keep Up with the Knowledge Explosion in Medicine. HBR Dec 19th 2016. https://hbr.org/2016/12/how-physicians-can-keep-up-with-the-knowledge-explosion-in-medicine.
21. Fuster V, Frazer J, Snair M, Vedanthan R, Dzau V; Committee on Global Health and the Future of the United States: A Report of the National Academies of Sciences, Engineering and Medicine. The Future Role of the United States in Global Health: Emphasis on Cardiovascular Disease. J Am Coll Cardiol. 2017 Dec 26;70(25):3140-3156. doi: 10.1016/j.jacc.2017.11.009. Epub 2017 Nov 30. Review. PubMed PMID: 29198877.

Book Chapters

1. Pomerantz J, Schreiber-Agus N, Liegeois N, Tam A, Olive KP, DePinho RA, **Chin L**. The role for INK4a in melanoma pathogenesis: One gene, two products, multiple pathways. In: The Biology of Tumors. Ed(s) E Mihich, C Croce. Plenum Press: New York, NY, 1-14, 1998.
2. Sharpless NE, **Chin L**. Chapter 15: The Biology and Genetics of Melanoma. In: Melanocytes to Melanoma: the Progression to Malignancy. Ed(s) VJ Hearing, SPL Leong. Humana Press: Totowa, NJ, 265-90, 2006.
3. Fisher DE, Kwong LN, **Chin L**. Molecular Biology of Cutaneous Melanoma. In: Cancer: Principles and Practice of Oncology, 8th. Ed(s) VT DeVita, TS Lawrence, SA Rosenberg. Lippincott Williams & Wilkins: Philadelphia, PA, 1889-97, 2008.
4. **Chin L**, Garraway L. Molecular Biology of Cutaneous Melanoma. In: Cancer: Principles and Practice of Oncology, 9th. Ed(s) VT DeVita, TS Lawrence, SA Rosenberg, 2009.

EDITORIAL AND REVIEW ACTIVITIES

Member of Editorial Review Board

Member, Editorial Advisory Panel, Nature Communications, Nature Publishing Group, 2010-2016

Journal Reviewer

Reviewer, Cancer Cell, Cell Press
Reviewer, Cancer Research, American Association for Cancer Research
Reviewer, Cell, Cell Press
Reviewer, Clinical Cancer Research, American Association for Cancer Research
Reviewer, Genes and Development, Cold Spring Harbor Laboratory Press
Reviewer, Genome Biology, BioMed Central Ltd.
Reviewer, Journal of Clinical Investigation, American Society for Clinical Investigation
Reviewer, Molecular and Cellular Biology, American Society for Microbiology
Reviewer, Molecular Cancer Research, American Association for Cancer Research
Reviewer, Nature, Nature Publishing Group
Reviewer, Nature Biotechnology, Nature Publishing Group
Reviewer, Nature Cell Biology, Nature Publishing Group
Reviewer, Nature Genetics, Nature Publishing Group
Reviewer, Nature Medicine, Nature Publishing Group
Reviewer, New England Journal of Medicine, Massachusetts Medical Society
Reviewer, Oncogene, Nature Publishing Group
Reviewer, Proceedings of the National Academy of Sciences of the United States of America, National Academy of Sciences
Reviewer, Public Library of Science (PLoS)
Reviewer, Science, American Association for the Advancement of Science
Reviewer, Science Signaling, American Association for the Advancement of Science
Reviewer, Science Translational Medicine, American Association for the Advancement of Science

TEACHING

Teaching Within Current Institution -

Direct Supervision

Graduate Students

Supervisor, Samirkumar B. Amin, MS, 2012-present

Baylor SCBMB, MD Anderson, Ayush Raman, PhD, 2014-present

Postdoctoral Research Fellows

Diane Scaduto, PhD, 2011-2013

Ian Watson, PhD, 2011-present

Supervisor, John Miller, PhD, 2011-2015

Peiling Tsou, MD, PhD, 2011-2015

Sharmistha Sarkar, PhD, 2011-2915

Yonathan Lissanu Deribe, MD, PhD, 2011-2015

Dong Yang, PhD, 2012-2013

Chia-Chin Wu, PhD, 2012-2015

Kadir Akdemir, PhD, 2013-2015

Tony Gutschner, PhD, 2013-2015

Clinical Residents and Fellows

Genevieve Boland, MD, 2012-11/2013

Research Mentor, DoCM Hematology/Oncology Fellowship Program, Koichi Takahashi, MD, 2012-2014

Emily Keung, MD, 2012-6/2014

Pei-Ling Chen, MD, 2014-2015

Zheng Lan, MD PhD, 2014-2015

Other Supervisory Teaching

Liren Li, MD, PhD, 2011-12/2013

Kunal Rai, PhD, 2011-11/2014

Chang-Jiun Wu, PhD, 2011-2015

Giannicola Genovese, MD, 2011-2015

Lawrence Kwong, PhD, 2011-2015

Teaching Outside Current Institution

Formal Teaching

Teaching Faculty, HHMI Medical Student Fellow (1 student), Albert Einstein College of Medicine, Course Hours: 150
1996-1998

Lecturer, Pediatric Grand Rounds, Albert Einstein College of Medicine
1996

Clinical Attending, Dermatology Continuity Clinic (10 residents), Albert Einstein College of Medicine, Course Hours: 150
1997-1998

Lecturer, Medicine Grand Rounds, Brigham and Women's Hospital, Boston, MA
1999

Organizer, Cancer Genetics Workshop, Dana-Farber/Harvard Cancer Center
2000

Teaching Faculty, 16th Annual Course, Jackson Lab, Bar Harbor, ME 2006

Supervisory Teaching

Direct Supervision

Medical Students

Supervisor, Harvard Medical School, Joyce Wu, MD candidate, 2007-2008

Graduate Students

Supervisor, Harvard Medical School, Alice Tam, MD, 1998-1999

Supervisor, Harvard Medical School, Aram Hezel, MD, 1998-1999

Supervisor, Harvard Medical School, Alex Wong, MD, 1999-2000

Supervisor, Harvard Medical School, Clarissa F-S Yang, MD, 2000-2001

Supervisor, Harvard Medical School, Yunyu Zhang, MS, 2002-2005

Supervisor, Harvard Medical School, Sachet Shukla, MS, 2008-2011

Postdoctoral Research Fellows

Supervisor, Harvard Medical School, Maya Artandi, MD, 2000-2001

Supervisor, Harvard Medical School, Kannan Karrupiah, PhD, 2000-2002

Supervisor, Harvard Medical School, Marcus Bosenberg, MD, PhD, 2000-2002

Supervisor, Harvard Medical School, Cristina Nogueira, PhD, 2000-2007

Supervisor, Harvard Medical School, Hyungee Kim, PhD, 2001-2003

Supervisor, Harvard Medical School, Zhenxiong Wang, PhD, 2002-2004

Supervisor, Harvard Medical School, Joseph H. Jeong, PhD, 2002-2008

Supervisor, Harvard Medical School, Cameron Brennan, MD, 2003-2006

Supervisor, Harvard Medical School, Omar Kabbarah, PhD, 2003-2006

Supervisor, Harvard Medical School, Bin Feng, PhD, 2003-2007

Supervisor, Harvard Medical School, Minjung Kim, PhD, 2003-2009

Supervisor, Harvard Medical School, Wolf Ruprecht Wiedemeyer, PhD, 2004-2009

Supervisor, Harvard Medical School, Kenneth Scott, PhD, 2005-2009

Supervisor, Harvard Medical School, Timothy Heffernan, PhD, 2006-2009

Supervisor, Harvard Medical School, Lawrence N. Kwong, PhD, 2007-2011

Supervisor, Harvard Medical School, Steven Quayle, PhD, 2007-2011

Supervisor, Harvard Medical School, Papia Ghosh, PhD, 2008-2011

Supervisor, Harvard Medical School, Chengyin Min, PhD, 2009-2011

Supervisor, Harvard Medical School, Giannicola Genovese, MD, 2009-2011

Supervisor, Harvard Medical School, Sharmistha Sarka, PhD, 2009-2011

Supervisor, Harvard Medical School, Terrence Wu, MD, PhD, 2009-2011

Supervisor, Harvard Medical School, Erik J. Uhlmann, MD, 2010-2011

Supervisor, Harvard Medical School, Ian Watson, PhD, 2010-2011

Supervisor, Harvard Medical School, Kunal Rai, PhD, 2010-2011

Supervisor, Harvard Medical School, Nina Seitzer, PhD, 2010-2011

Supervisor, Harvard Medical School, Yonathan L. Deribe, MD, PhD, 2010-2011

Clinical Residents and Fellows

Supervisor, Harvard Medical School, Audrey Wang, MD, 2006-2007

CONFERENCES AND SYMPOSIA

Organization of Conferences/Symposia (Include chairing session)

1. Chair, International Investigative Dermatology, Third Joint Meeting, Germany, 1998
2. Organizer, Mouse Model of Human Cancer Consortium (MMHCC), The First MMHCC Cutaneous Oncology Workshop: Modeling Cutaneous Cancers in the Mouse, Puerto Rico, 2001
3. Session Chair, Cold Spring Harbor Laboratory, Meeting on Cancer Genetics and Tumor Suppressor Genes, Cold Spring Harbor, NY, 2002
4. Co-Organizer, 19th Annual Oncogene Meeting, Frederick, MD, 2003
5. Co-Chair, American Association for Cancer Research, Annual Meeting Educational Session: Mouse Models, Washington, DC, 2003
6. Planning Committee, Melanoma 2003: Turning Scientific Discoveries into Clinical Targets, Melanoma State of the Science Meeting, Bethesda, MD, 2003
7. Organizer, Mouse Model of Human Cancer Consortium (MMHCC), The Second MMHCC Cutaneous Oncology Workshop, Monterey, CA, 2003
8. Co-Organizer, American Association for Cancer Research, Session on Melanoma: New Concepts in Organ-Site Research, 96th Annual Meeting, Anaheim, CA, 2005
9. Organizer and Speaker, Dana-Farber/Harvard Cancer Center, Symposium on Melanoma, 2005
10. Session Chair and Invited Speaker, American Association for Cancer Research, Annual Meeting Educational Session: Genetic Mechanism of Cancer Development, Washington, DC, 2006
11. Session Chair, American Association for Cancer Research, 98th Annual Meeting Educational Session: What is a validated target? Los Angeles, CA, 2007
12. Chair and Speaker, Society for Melanoma Research, 4th International Congress on Melanoma, New York, NY, 2007
13. Chair, American Association for Cancer Research, 99th Annual Meeting, Major Symposium on Integrative Cancer Genomics, San Diego, CA, 2008
14. Session Chair, Cold Spring Harbor Laboratory, Meeting on Mechanisms and Models of Cancer, Cold Spring Harbor, NY, 2008
15. Organizer, The Cancer Genome Atlas (TCGA), GBM Genetics and Biology: a TCGA workshop, Bethesda, MD, 2008
16. Organizer and Speaker, American Association for Cancer Research, Special Conference on Brain Cancer, San Diego, CA, 2009
17. Organizer and Speaker, American Association for Cancer Research, Special Conference on Translation of Cancer Genome, Boston, MA, 2009
18. Session Chair, The Cancer Genome, Meeting on The Biology of Genomes, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 2009
19. Session Chair and Speaker: Cancer Genomics, Wellcome Trust and Nature Genetics, 3rd Annual Meeting, Genetics of Common Diseases", Cambridge, United Kingdom, 2009
20. Organizer and Speaker, EMBO-EMBL, Cancer Genomics, Heidelberg, Germany, 2011
21. Organizer and Speaker, Keystone Symposium, Changing Landscape of the Cancer Genome, Boston, MA, 2011
22. Organizer, American Association for Cancer Research (AACR), Translation of the Cancer Genome: Scientific, Clinical, and Operational Challenges, San Francisco, CA, 2011
23. Chair, The Cancer Genome Atlas, Major Symposium on TCGA, Washington, DC, 2011
24. Organizer and Speaker, EMBL Conference on Cancer Genomics, Heidelberg, Germany, 2013
25. Co-Chair & Invited Speaker, Texas FreshAir Roundtable, Academia Industry Roundtable, Office of Health Affairs, Austin, TX, 2013
26. Organizer and Invited Speaker, Genome Biology and Genome Medicine Journals, Beyond the Genome Conference, Boston, MA, 2014

27. Organizer and Speaker, American Association for Cancer Research (AACR) Translation of the Cancer Genome, San Francisco, CA, 2015
28. Organizer and Speaker, EMBL Conference on Cancer Genomics, Heidelberg, Germany, 2015
29. Co-organizer and Speaker, Cancer Precision Medicine Conference, Tiajian, China, 2016
30. Chair and Speaker, "Artificial Intelligence-enabled Cancer Care and Research: Potential and challenges", Major Symposium at the AACR Annual Meeting, Washington DC, 2017
31. Session Chair and Speaker, State of Reform Texas, "Models of Value-Based Care", Austin, TX, Feb 2017

Presentations at Conferences

Plenary and Keynotes

1. Keynote Speaker, Massachusetts General Hospital, Center for Human Genetic Research Retreat, Charlestown Navy Yard, MA, 2003
2. Plenary Speaker, First Annual Melanoma Congress, Philadelphia, PA, 2003
3. Plenary Lecturer, XIXth International Pigment Cell Conference, VA, 2005
4. State-of-the-Art Plenary Lecture, 67th Annual Meeting, Society of Investigative Dermatology, Philadelphia, PA, 2006
5. Plenary Speaker, BIO International Convention, Super-Session on Cancer Genomics, San Diego, CA, 2008
6. Keynote Speaker, International Society of Gastrointestinal Oncology, Arlington, VA, 2008
7. Plenary Speaker, Early Detection Research Network (EDRN), 5th Annual Scientific Workshop, Bethesda, MD, 2009
8. Keynote Speaker, Accelerate Brain Cancer Cure (ABC2), Annual Scientific Retreat, Washington, DC, 2010
9. Keynote Speaker, Chinese Biopharmaceutical Association-USA, 15th Annual Conference, Washington, DC, 2010
10. Keynote Speaker, Clinical Proteomic Technologies for Cancer initiative (CPTC), Fourth Annual Meeting, Bethesda, MD, 2010
11. Opening Plenary Speaker, American Association for Cancer Research Annual Meeting, Orlando, FL, 2011
12. TEDMED Speaker, Can Medical Industry and Medical Research Live Happily Ever After? TEDMED, New York, NY, 2012
13. Keynote Address, Annual Retreat, Herbert Irving Comprehensive Irving Cancer Center (HICCC), Tarrytown, NY, 2012
14. Keynote Speaker, Sachs Cancer Bio Partnering Forum, Sachs, Boston, MA, 2013
15. Keynote Speaker, MD Anderson, MDA Network Symposium, Boston, MA, 2014
16. Keynote Speaker, MD Anderson Cancer Center, Cullen Trust, Houston, TX, 2014
17. Keynote Speaker, International Conference on Intelligent Biology and Medicine (ICIBM), San Antonio, TX, 2014
18. Keynote Address, 26th Annual Cancer Progress Conference, NYC, NY, 2015
19. Keynote Speaker, Frontiers in Academic Pathology, New York, NY, 2015
20. Keynote Speaker, Institute for Health Technology Transformation, Houston, TX, 2015
21. Keynote Speaker, Human Genome Meeting 2016, HUGO, Houston, TX, 2016
22. Keynote Speaker, Medical World America, Houston, TX, 2016
23. Keynote speaker, National Health IT Collaborative Symposium on "Opportunities and Challenges in Using Health Technology to Deliver Quality Healthcare in Rural and Underserved Communities", Orlando, FL. Feb 2017
24. Keynote, InnoTech Conference, San Antonio, TX, April 2017
25. Keynote Speaker, HIMSS Precision Medicine Summit, Boston, July 2017
26. Keynote Speaker, P4 China on International Precision Medicine Convention. Guangzhou, China, Oct. 2017

27. Keynote Speaker on "Trust, Transparency and Transformation" *@ HIMSS Machine Learning and AI for Healthcare, Las Vegas, March 2018*
28. *Keynote, Industrial Revolution 4.0: The Future of Hospital* the 9th Korea Healthcare Congress, Seoul, Korea, April 2018
29. Opening Keynote and Panel, "Cross-Sector Collaborations to Engage, Empower, and Enhance Care for Underserved Populations" *@ World Congress Payer and Provider Summit on Social Determinants of Health,* Scottsdale, AZ, June 2018

Lectureships and Visiting Professorships

1. Duhring Lecture Series, University of Pennsylvania Medical Center, Department of Dermatology, Philadelphia, PA, 1999
2. The Gregory Lilienfeld Visiting Professor Lectureship, Albert Einstein College of Medicine, Bronx, NY, 1999
3. The Fink Lecture, Memorial Sloan-Kettering Cancer Center, New York, NY, 2001
4. Danny Thomas Lecture, St. Jude Children's Research Hospital, Memphis, TN, 2009
5. The Latta Lecture, University of California, Los Angeles, Los Angeles, CA, 2010
6. 4th Annual Michael Fisher Lectureship, Montefiore Medical Center, Bronx, NY, 2011
7. Lila and Murray Gruber Memorial Cancer Research Award and Lectureship, 72nd Annual Meeting AAD, AAD, Denver, CO, 2014

Invited Talks

1. Invited Speaker, 44th Annual Symposium on the Biology of Skin, Snowmass, CO, 1995
2. Presenter, Residents and Fellows Symposium, 54th Annual Meeting, American Academy of Dermatology, Washington, DC, 1996
3. Presenter, Section of Dermatology, New York Academy of Sciences, New York, NY, 1997
4. Speaker, Concurrent Featured Symposia, Annual Meeting, Society for Investigative Dermatology, Washington, DC, 1997
5. Invited Speaker, 47th Annual Montagna Symposium on the Biology of Skin, Snowmass, CO, 1998
6. Invited Speaker, 9th International p53 Workshop, Greece, 1998
7. Invited Speaker, The 3rd Peter Mac Symposium, Melbourne, Australia, 1999
8. Invited Speaker, 27th Annual Meeting, American Society for Photobiology, Washington, DC, 1999
9. Speaker, Special Conference on Cancer Biology and the Mutant Mouse, American Association for Cancer Research, Keystone, CO, 1999
10. Invited Lecturer, 1st Annual Postdoctoral Fellow Retreat, Division of Basic Sciences, National Cancer Institute, 2000
11. Invited Participant, Melanoma Workshop: Melanoma Biology and Progression, National Cancer Institute, Bethesda, MD, 2000
12. Invited Speaker, 91st Annual Meeting, Symposium on Melanoma, American Association for Cancer Research, San Francisco, CA, 2000
13. Invited Speaker, Special Conference on Melanoma: Basic Biology and Immunological Approaches to Therapy, American Association for Cancer Research, The Woodlands, TX, 2000
14. Invited Speaker, IXth Annual Meeting, PanAmerican Society for Pigment Cell Research, College Station, TX, 2000
15. Invited Speaker, 13th International Congress on Photobiology, San Francisco, CA, 2000
16. Workshop Faculty, Educational Workshop: Pathobiology of Cancer, American Association for Cancer Research, Keystone, CO, 2000
17. Invited Speaker, Symposium on Basic Biology, 5th World Congress on Melanoma, Venice, Italy, 2001

18. Invited Speaker, The Gordon Research Conference on Cancer, Salve Regina, RI, 2001
19. Invited Speaker, Genomics and Genetics of Senescence and Cancer, Keystone Symposium, Keystone, CO, 2002
20. Invited Speaker, 93rd Annual Meeting Educational Session: Emerging Technologies for Modeling Cancer in the Mouse, American Association for Cancer Research, San Francisco, CA, 2002
21. Invited Speaker, 93rd Annual Meeting Meet-the-Expert Sunrise Session: Melanoma Models, American Association for Cancer Research, San Francisco, CA, 2002
22. Invited Speaker, The Gordon Research Conference on Cancer, Salve Regina, RI, 2002
23. Invited Speaker, The Banbury Meeting on Critical Review of Melanoma Biology and Therapy, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 2002
24. Invited Speaker, Conference: Frontiers in Cancer Prevention Research, Boston, MA, 2002
25. Invited Speaker, Annual Meeting, PanAmerican Society for Pigment Cell Research, Cape Cod, RI, 2003
26. Invited Speaker, Melanoma Symposium, Salt Lake City, UT, 2003
27. Invited Speaker, Annual Scientific Symposium on Genes, Environment and Disease, National Institute of Environmental Health Sciences (NIEHS), Boston, MA, 2003
28. Invited Speaker, Annual Meeting Symposium on Brain Tumor, American Association for Cancer Research, Washington, DC, 2003
29. Invited Speaker, Mouse Models of Cancer, American Association for Cancer Research, FL, 2003
30. Invited Speaker, Roundtable, The Fund to Cure Myeloma, New York, NY, 2003
31. Invited Speaker, Oncogenes and Growth Control Meeting, San Diego, CA, 2003
32. Invited Speaker, Mouse Model, Keystone Symposium, Keystone, CO, 2004
33. Invited Speaker, The Montagna Symposium on the Biology of the Skin, OR, 2004
34. Invited Speaker, 6th Annual Conference, American Association for Cancer Research/Japanese Cancer Association, HI, 2004
35. Invited Speaker, 2nd International Melanoma Research Congress, Phoenix, AZ, 2004
36. Invited Speaker, Melanoma Research Conference, Vanderbilt-Ingram Cancer Center, Nashville, TN, 2004
37. Invited Speaker, Conference, Melanoma Research Foundation, NC, 2005
38. Invited Speaker, 96th Annual Meeting, Method Workshop on New Genomic Technologies, American Association for Cancer Research, Anaheim, CA, 2005
39. Invited Speaker, Joint International Conference on Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications, AACR-NCI-EORTC, Philadelphia, PA, 2005
40. Invited Speaker, 96th Annual Meeting, Major Symposium on Modeling the Complexity of Cancer in Animal Models, American Association for Cancer Research, Anaheim, CA, 2005
41. Invited Speaker, 96th Annual Meeting, Major Symposium on Genome Aberration, Formation and Function, American Association for Cancer Research, Anaheim, CA, 2005
42. Invited Speaker, Banbury Meeting on A Critical Review of Melanoma: Genomic Approaches with Therapeutic Promise, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 2005
43. Invited Speaker, Molecular Targets for Cancer Therapy, Keystone Symposium, Santa Fe, NM, 2005
44. Invited Speaker, Cell and Molecular Biology of Cancer, Lausanne, Switzerland, 2005
45. Invited Speaker, T&F Informa Microarray Workshop, Boston, MA, 2005
46. Invited Speaker, Innovations in Microarray Technology and Bioinformatics, Chips-to-Hits, Boston, MA, 2005
47. Invited Speaker, Conference on the Mouse, Jackson Laboratory, New York, NY, 2006
48. Invited Speaker, 14th SPORE Investigators' Workshop, Washington, DC, 2006

49. Invited Speaker, Special Conference on Mouse Models of Cancers, American Association for Cancer Research, Boston, MA, 2006
50. Invited Speaker, 30th Annual Scientific Symposium, Lineberger Cancer Center, Chapel Hill, NC, 2006
51. Invited Speaker, General Motors Annual Scientific Conference on Genomics and Cancers, National Institutes of Health, Washington, DC, 2006
52. Invited Speaker, Special Conference on Obstacle to Translation in Melanoma, University of California, San Francisco, San Francisco, CA, 2006
53. Invited Speaker, 3rd International Conference on Tumor Progression and Therapeutic Resistance, Baltimore, MD, 2006
54. Invited Participant, Strategy Meeting, International Cancer Genomics Consortium, Toronto, Ontario, Canada, 2007
55. Invited Speaker, Mouse Models at the Frontiers of Cancer Discovery, Keystone Symposium, Whistler, British Columbia, Canada, 2007
56. Invited Speaker, Apoptotic and Non-Apoptotic Cell Death Pathways, Keystone Symposium, Monterey, CA, 2007
57. Invited Speaker, 98th Annual Meeting, Major Symposium on Metastasis, American Association for Cancer Research, Los Angeles, CA, 2007
58. Invited Speaker, New Frontiers in Cancer Detection and Diagnosis, The Gordon Research Conference, Ventura, CA, 2007
59. Invited Speaker, 15th SPORE Investigators' Workshop, Washington, DC, 2007
60. Invited Speaker, Annual Meeting, Society for Neuro-oncology, TX, 2007
61. Invited Speaker, VII Meeting of Molecular Oncology, Positano, Italy, 2007
62. Invited Speaker, Conference on UV Biology, Karolinska Institute, Sweden, 2007
63. Invited Speaker, Annual Short Course at Jackson Laboratory, Bar Harbor, ME, 2007
64. Invited Speaker, Agilent Symposium, Boston, MA, 2007
65. Invited Speaker, Meeting on Cancer Science, IPSEN Foundation, Costa Rica, 2008
66. Invited Speaker, European Association of Cancer Research, Lyon, France, 2008
67. Invited Speaker, Workshop, Canadian Cancer Research Alliance, Toronto, Ontario, Canada, 2008
68. Invited Speaker, Workshop on Biology of Brain Metastasis, National Cancer Institute, MD, 2008
69. Invited Speaker, Aspen Cancer Conference, Aspen, CO, 2008
70. Invited Speaker, Members Workshop, First International Cancer Genome Consortium, Washington, DC, 2008
71. Invited Speaker, Symposium on Defining Molecular and Drug Targets for Cancers, Biomedicum, Helsinki, Finland, 2008
72. Invited Speaker, Metastasis Genes and Functions, IRB Barcelona BioMed Conference, Barcelona, Spain, 2008
73. Invited Speaker, International Symposium on Invasion and Metastasis, Max Delbrück Center (MDC), Berlin, Germany, 2008
74. Invited Speaker, Tumor Suppressor, Keystone Symposium, Taos, NM, 2009
75. Invited Speaker, Annual Meeting Major Symposium, American Association for Cancer Research, Denver, CO, 2009
76. Invited Speaker, Second Annual Personal Genomes Meeting, Cold Spring Harbor, NY, 2009
77. Invited Speaker, International Melanoma Congress, Boston, MA, 2009
78. Invited Speaker, Sun Yat-sen Cancer Hospital, Guangzhou, China, 2009
79. Invited Speaker, Chinese University at Hong Kong, Hong Kong, China, 2009
80. Invited Speaker, Enabling a Future of Personalized Cancer Medicine: Leveraging 30 years of China-U.S. Scientific Progress, NCI-Chinese Academy of Medical Science, Beijing, China, 2009

81. Invited Speaker, Gliomas: From Bench to Bedside and Back, Forbeck Foundation Meeting, Hilton Head, SC, 2009
82. Invited Speaker, Targeted Cancer Therapies, Keystone Symposium, Whistler, British Columbia, Canada, 2009
83. Invited Speaker, State-of-the-Art Genetic Screens in the Mouse, Wellcome Trust Sanger Institute, Hinxton, Cambridge, United Kingdom, 2009
84. Invited Speaker, International Conference on Molecular Targets and Cancer Therapeutics, AACR-NCI-EORTC, Boston, MA, 2009
85. Invited Speaker, Next Generation Sequencing and Genomic Medicine Applications Summit, San Francisco, CA, 2010
86. Invited Speaker, Interest Group on The Opportunities and Challenges of Personalized Medicine, Institute of Medicine (IOM), Washington, DC, 2010
87. Invited Speaker, Symposium on Personalized Medicine, Chinese University of Hong Kong-MD Anderson Cancer Center, Hong Kong, China, 2010
88. Invited Speaker, Annual Meeting, American Association for Cancer Research, Washington, DC, 2010
89. Invited Speaker, Translational Cancer Medicine, American Association for Cancer Research, San Francisco, CA, 2010
90. Invited Speaker, 3rd Annual Meeting, International Cancer Genome Consortium, Madrid, Spain, 2010
91. Invited Speaker, Inaugural James D. Watson Symposium on Cancer, Cold Spring Harbor Conferences Asia, Suzhou, China, 2010
92. Invited Participant, Think Tank on Brain Cancer, Sienna, Italy, 2011
93. Invited Speaker, Symposium on Cancer, Institut Suisse de Recherche (ISREC), Lausanne, Switzerland, 2011
94. Invited Speaker, From Carcinogenesis to Cancer Therapy, Cancer Conference, Cancun, Mexico, 2011
95. Invited Speaker, Biology of Cancer, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 2011
96. Invited Speaker, Annual Meeting, Advances in Genome Biology and Technology (AGBT), Marco Island, FL, 2011
97. Invited Speaker, American Association for Cancer Research, San Francisco, CA, 2011
98. Invited Speaker, NBTS, National Brain Tumor Society, 2011 NBTS Summit, Philadelphia, PA, 2011
99. Invited Speaker, International Conference, Session on Challenges in Genomic-Based Characterization of Tumors, AACR-NCI-EORTC, San Francisco, CA, 2011
100. Invited Speaker, Tumor Microenvironment Network (TMEN), DC, 2011
101. Chair, The Cancer Genome Atlas (TCGA) Symposium Meeting, The Cancer Genome Atlas's (TCGA) 1st Annual Scientific Symposium: Enabling Cancer Research through TCGA, National Harbor, MD, 2011
102. Chairperson and Invited Speaker, American Association for Cancer Research (AACR), Chicago, IL, 2012
103. Invited Speaker, NCI, MMHCC Steering Committee Meeting, San Francisco, CA, 2012
104. Invited Speaker, International Cancer Genome Consortium (ICGC), 6th ICGC Scientific Workshop, Cannes, France, 2012
105. Invited Speaker, Melanoma Research Alliance, Washington, DC, 2012
106. Invited Speaker, Nordic Society of Gynecologic Oncology (NSGO), Nordic Society of Gynecologic Oncology (NSGO), Finland, 2012
107. Invited Speaker, Tumor Microenvironment Network (TMEN), Washington, DC, 2012
108. Invited Speaker, Model Organisms to Human Biology (MOHB) – Cancer Genetics Conference, The Genetics Society of America Conferences, Washington, DC, 2012

109. Invited Speaker, Chinese Anti-Cancer Association, 7th Chinese Conference on Oncology, Bejing, China, 2012
110. Invited Speaker, Beyond the Genome Conference, Boston, MA, 2012
111. Invited Speaker, GBM Scientific Retreat, *FasterCures*, the Milken Institute's Center for Accelerating Medical Solutions, Santa Monica, CA, 2012
112. Invited Speaker, 13th Annual Retreat, Medical and Scientific Advisory Board of MPM Capital, LP, Boston, MA, 2012
113. Invited Speaker, 2012 Cell Symposia: Hallmarks of Cancer, Cell Press, San Francisco, CA, 2012
114. Invited, IBM Watson Solutions User Conference, Austin, TX, 2012
115. Invited Speaker, The Cancer Genome Atlas 2nd Annual Scientific Symposium, Crystal City, VA, 2012
116. ISREC distinguished Lecturer, ISREC, Geneva, Switzerland, 2013
117. Invited Speaker, 2013 TAMEST Annual Conference, The Academy of Medicine, Engineering and Science of Texas (TAMEST), Dallas, TX, 2013
118. Invited Speaker, Biomedical Cloud Think Tank, Ontario Institute for Cancer Research (OICR) and Broad Institute, Massachusetts General Hospital, New York, NY, 2013
119. Invited Speaker, AACR Special Conference on Tumor Invasion and Metastasis, American Association for Cancer Research (AACR), San Diego, CA, 2013
120. Invited Speaker, NCI/TMEN Grantees Steering Committee Mtg., Tumor Microenvironment Network (TMEN), New York, NY, 2013
121. Invited Speaker, AACR/JCA Joint Conference: Breakthroughs in Basic and Translational Cancer Research, American Association Cancer Research (AACR), Maui, HI, 2013
122. Invited Speaker, Personalizing Cancer Care Through Discovery Science, American Association for Cancer Research (AACR), Washington, DC, 2013
123. Invited Speaker, Cancer Pharmacogenomics and Targeted Therapies (CP & TT), Wellcome Trust Sanger Institute, London, United Kingdom, 2013
124. Speaker, The Cancer Genome Atlas Steering Committee Meeting, Washington, DC, 2013
125. Invited Speaker, The Cancer Genome Atlas Steering Committee Meeting, Washington, DC, 2013
126. Invited Speaker, National Biomarker Development Alliance Workshop, Scottsdale, AZ, 2013
127. Invited Speaker, Genomic and Epigenomics, The Weizmann Institute of Science, Israel, 2013
128. Invited Speaker, New Directions in Cancer Discovery, The Alexandria Oncology Summit (OS), New York, NY, 2013
129. Invited Speaker, Institute of Medicine (IOM), Washington, DC, 2013
130. Invited Speaker, IBM Enterprise Systems, IBM, Orlando, FL, 2013
131. Invited Speaker, Major Innovation in Health Care and Life Sciences, IIT Global, Houston, TX, 2013
132. Invited Speaker, IBM Watson, Austin, TX, 2013
133. Invited Speaker, Oppenheimer Healthcare Conference, Oppenheimer Healthcare Conference, New York, NY, 2013
134. Invited Speaker, GBM Think Tank II, National Biomarker Development Alliance, Scottsdale, AZ, 2014
135. Invited Speaker, Actionable Genome Consortium, MSKCC, New York, NY, 2014
136. Invited Speaker, 6th Annual Scientific Retreat, MRA, Washington, DC, 2014
137. Invited Speaker, American Association for Cancer Research Annual Meeting, San Diego, CA, 2014
138. Invited Speaker, ISPEN, Chantilly, France, 2014
139. Invited Speaker, The Genomics of Common Diseases Conference, Potomac, MD, 2014

140. Invited Speaker, Forum on Healthcare Innovation, Hartford, CT, 2014
141. Invited Speaker, Society for Melanoma Research (SMR), Melanoma Congress, Zurich, Switzerland, 2014
142. Invited Speaker, MMHCC Steering Committee Meeting, NCI/MMHCC Steering Committee Meeting, Rockville, MD, 2014
143. Invited Speaker, NCI/MDACC, Tumor Microenvironment Network, Houston, TX, 2014
144. Invited Speaker, IBM InterConnect 2015, Las Vegas, NV, 2015
145. Invited Speaker, The 26th Annual Cancer Progress Conference, Florham Park, NJ, 2015
146. Invited Speaker, WPO Annual Conference, Phoenix, AZ, 2015
147. Invited Speaker, PwC Advisory Leadership, Orlando, FL, 2015
148. Invited Speaker, PACC Phytel Conference, Dallas, TX, 2015
149. Invited Speakers, 11th Scientific Workshop of the International Cancer Genome Consortium (ICGC), Mumbai, India, 2015
150. Invited Speaker, UT System Texas FreshAIR Big Data & Data Analytics Conference, San Antonio, TX, 2016
151. Invited Speaker, Cellular Horizons: How Science, Technology, Information and Communication Will Impact Society. The Vatican Conference, Rome, Italy, 2016
152. Invited Speaker, Gates Foundation - Global Good Meeting, Seattle, WA, 2016
153. Invited Speaker, Xconomy Napa Summit, San Francisco, CA, 2016
154. Invited Speaker and Panel Moderator, Wall Street Summit, New York, NY, 2016
155. Invited Speaker, 12th ICGC Scientific Workshop, Boston, MA, 2016
156. Invited Speaker and Organizing Committee, First International Conference on Precision Medicine, Tianjin, China, 2016
157. Invited Speaker, the Forum on Healthcare Innovation, The Jackson Laboratory, Connecticut, 2016
158. Invited Speaker, Kellogg on Growth Conference, Chicago, IL 2016
159. Invited Speaker, AI in Medicine conference, Orange County, California, 2016
160. Invited Speaker, NASA Human Research Program Investigator's Workshop, Galveston TX, 2017
161. Invited Speaker, HIMSS "Digital and Personal Connected Health", Orlando FL, 2017
162. Invited Speaker, "Larger than Life Sciences", Smart Cities NYC'17: Powered by People Conference, NY, 2017
163. Invited Speaker, EMBL Conference on Cancer Genomics, Heidelberg, Germany 2017
164. Invited Speaker and Moderator, Texas Healthcare Innovation Forum, February 2018
165. Invited Speaker and Panelist, *Big Data and AI: Hype versus Reality*, HealthXL Global Gathering, Pittsburg, PA, February 2018
166. Invited Speaker, "Disruptive Technology" *@ The Health Management Academy*, Dallas, TX, February 13, 2018
167. Invited Speaker, "Public Health Security and Biological Threats", *73rd Annual Meeting of the ORAU Council of Sponsoring Institutions*, April 2017

Presentations at Institutions

1. Invited Seminar, St. George's Hospital Medical School, Department of Anatomy & Developmental Biology, London, United Kingdom, 1998
2. Invited Seminar, Marie Curie Research Institute, United Kingdom, 1998
3. Invited Seminar, Melbourne-wide Skin Oncology Meeting, Melbourne, Australia, 1999
4. Invited Seminar, Yale University, New Haven, CT, 1999
5. Invited Seminar, Rutgers University, Rutgers Cancer Institute, NJ, 1999
6. Invited Seminar, The Wistar Institute, Philadelphia, PA, 1999
7. Invited Seminar, Van Andel Research Institute, Grand Rapids, MI, 2000

8. Invited Seminar, University of Cincinnati, The Procter & Gamble Seminar Series, Department of Dermatology, Cincinnati, OH, 2000
9. Invited Seminar, Washington University School of Medicine, St. Louis, MO, 2000
10. Invited Seminar, Mount Sinai School of Medicine, Derald H. Ruttenberg Cancer Center Seminar Series, New York, NY, 2000
11. Invited Seminar, Karolinska Institute, Department of Bioscience, Sweden, 2000
12. Invited Seminar, Memorial Sloan-Kettering Cancer Center, New York, NY, 2001
13. Invited Seminar, The Preuss Foundation Seminar, La Jolla, CA, 2001
14. Invited Seminar, National Institutes of Health, National Human Genome Research Institute, Bethesda, MD, 2002
15. Invited Seminar, University of California, San Francisco Cancer Center Seminar Series, San Francisco, CA, 2003
16. Invited Speaker, Fall Symposium, University of Michigan Cancer Center, MI, 2003
17. Invited Speaker, Neuro-oncology Conference, Brigham and Women's Hospital, Boston, MA, 2003
18. Invited Seminar, New York University Cancer Institute Seminar Series, New York, NY, 2003
19. Invited Seminar, BCMP Retreat, Harvard BBS Graduate Program, Boston, MA, 2003
20. Invited Seminar, Cutaneous Biology Research Center (CBRC) Seminar Series, Massachusetts General Hospital/Harvard, Boston, MA, 2004
21. Invited Seminar, Loyola University Medical Center, Clinical and Translational Seminar, Chicago, IL, 2004
22. Invited Seminar, Boston Cancer Research Association Seminar, Boston, MA, 2004
23. Invited Seminar, Ingenuity Pathway Analysis Seminar, Boston, MA, 2005
24. Invited Seminar, AstraZeneca R&D Seminar, MA, 2005
25. Invited Seminar, University of Vanderbilt Medical Center Seminar, Nashville, TN, 2005
26. Invited Seminar, Genentech Seminar Series, CA, 2005
27. Invited Seminar, Stanford Cancer Biology Seminar, Stanford, CA, 2005
28. Invited Seminar, Wayne State University Seminar, Detroit, MI, 2005
29. Invited Seminar, MD Anderson Seminar Series, Houston, TX, 2006
30. Invited Seminar, University of California Denver Health Science Center, Denver, CO, 2006
31. Invited Seminar, Memorial Sloan-Kettering Cancer Center, Cancer Biology and Genetics Seminar Series, New York, NY, 2006
32. Invited Seminar, Boston University School of Medicine Seminar Series, Boston, MA, 2006
33. Invited Seminar, Signal Transduction Seminar Series, Beth Israel Deaconess Medical Center, Boston, MA, 2006
34. Invited Seminar, BCMP Retreat Seminar, Signal Transduction Seminar Series, Beth Israel Deaconess Medical Center, Boston, MA, 2006
35. Invited Seminar, Merrimack Pharmaceuticals, Inc., Cambridge, MA, 2006
36. Invited Seminar, Synta Pharmaceuticals Inc., Wellesley, MA, 2006
37. Invited Speaker, Neuro-oncology and Cancer Biology Joint Retreat, Dana-Farber/Harvard Cancer Center, Boston, MA, 2006
38. Invited Speaker, Biological Chemistry & Molecular Pharmacology Retreat, Harvard Medical School, NH, 2006
39. Invited Seminar, Dermatology Grand Rounds, Johns Hopkins Medical Institute, Baltimore, MD, 2007
40. Invited Seminar, Merck Research Laboratory Seminar Series, Boston, MA, 2007
41. Invited Seminar, GU Seminar Series, Dana-Farber Cancer Institute, Boston, MA, 2007
42. Invited Seminar, MD Anderson Cancer Center, Experimental Therapeutics Seminar Series, Houston, TX, 2007
43. Invited Seminar, Immune Disease Institute (IDI) Seminar, Cutaneous Biology Research Center at Harvard, Boston, MA, 2007

44. Invited Seminar, Abbott Laboratories, Chicago, IL, 2007
45. Invited Seminar, The Wellcome Trust Sanger Institute, United Kingdom, 2008
46. Invited Seminar, Genzyme Seminar Series, MA, 2008
47. Invited Seminar, University of Massachusetts Seminar Series, MA, 2008
48. Invited Seminar, Fox Chase Cancer Center Seminar Series, Philadelphia, PA, 2008
49. Invited Seminar, University of Chicago, Cancer Biology Seminar, Chicago, IL, 2008
50. Invited Seminar, Neurosurgery Grand Rounds, Massachusetts General Hospital, Boston, MA, 2008
51. Invited Seminar, Seminar Series on Oncology, Dana-Farber/Harvard Cancer Center, Boston, MA, 2008
52. Invited Seminar, Grand Rounds, National Cancer Institute-Center for Cancer Research, Bethesda, MD, 2009
53. Invited Seminar, MIT Biology IAP Lecture Series, Boston, MA, 2009
54. Invited Seminar, Boston University Seminar Series, MA, 2009
55. Invited Seminar, New York University Seminar Series, New York, NY, 2009
56. Invited Seminar, Washington University, Siteman Cancer Center Basic Science Seminar Series, St. Louis, MO, 2009
57. Invited Seminar, Duke University Seminar Series, Durham, NC, 2009
58. Invited Seminar, Memorial Sloan-Kettering Cancer Center, President's Research Seminar Series, New York, NY, 2010
59. Invited Seminar, Hematology/Oncology Grand Rounds, Columbia University, New York, NY, 2010
60. Invited Seminar, Neuro-oncology Retreat, Memorial Sloan-Kettering Cancer Center, New York, NY, 2011
61. Invited Seminar, Cell and Molecular Biology of Cancer, Einstein Seminar, New York, NY, 2011
62. Invited Seminar, Grand Rounds, UT Southwestern Center, Dallas, TX, 2012
63. Invited Speaker, University of Copenhagen, Copenhagen, Denmark, 2012
64. Invited Seminar, Seminar Series, KOCH Institute, Boston, MA, 2014
65. Invited Speaker, Welcome Trust Sanger Institute, London, UK, 2015
66. Invited Seminar, UCLA Distinguished Lecture Series, Los Angeles, CA, 2016
67. Invited Speaker, Food and Drug Administration (FDA), Silver Spring, MD, 2016
68. Invited Speaker, Beijing Hospital, Beijing, China, 2016

PROFESSIONAL MEMBERSHIPS and ACTIVITIES

National and International Professional Society Activities, with Offices Held

- **American Medical Association**
  Member, 1996-present
- **Society for Investigative Dermatology**
  Member, 1996-present
- **Chinese American Medical Society**
  Member, 1997-present
- **American Academy of Dermatology**
  Member, 2001-present
- **American Association for Cancer Research**
  Member, 2001- present
  Member, Landon Basic Prize Nomination Committee, 2004
  Chair, Landon Basic Prize Nomination Committee, 2005

Member, Educational Session Committee, 2006-2007
Member, Special Conference Committee, 2006-2009
Co-Chairperson, 2008 Annual Meeting Program Committee, 2007-2008

- **National Cancer Institute**
  Member, Planning Committee for NCI/CTEP sponsored State of the Science meeting in melanoma, 2003
  Chair, Tumor Microenvironment Network (TMEN) Biomarker Development Working Group, 2007-2008
  Member, NCI-SMR Working Group: drafting the Congressional Responses to Melanoma Research, 2007

- **American Society for Clinical Investigation**
  Member, 2004-present
  Councilor, 2006-2009

- **The Cancer Genome Atlas (TCGA)**
  Member, Executive Subcommittee, 2007-2012
  Chair, CNS Disease Working Group, 2006-2015
  Chair, Melanoma Disease Working Group, 2009-2015

- **International Cancer Genomics Consortium (ICGC)**
  Leader, Working Group on Clinical and Pathological Issues, 2007-2008
  Member, Scientific Steering Committee, 2009 – 2018

- **National Academies of Science, Engineering and Medicine**
  Member, The National Academy of Medicine, 2012 – Present
  Committee member, chair of the digital health subcommittee, on "Global Health and the Future of the United States", 2016 – 2017

- **International Cancer Genomics Consortium – Accelerating Research on Genomic Oncology (ICGC-ARGO)**
  Leader, Working Group on Phenomics, 2017 – Present
  Member, Scientific Steering Committee, 2017 – Present

- **Association of American Physicians**
  Member, 2015-present

Other Professional Activities

- Invited Expert, Gates' Foundation xxx
- Invited Expert, Chan-Zuckerberg ARPA-ED
- Invited Expert Panelist, on "Innovation in Drug Development", by the Economist Intelligence Unit, The Economist Group. October 20th, 2017

DATE OF LAST CV UPDATE

January 2018