

CURRICULUM VITAE



NAME AND ADDRESS

Lee J. Helman, M.D.
Scientific Director for Clinical Research,
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CITIZENSHIP

United States

MARITAL STATUS

Married, two children

EDUCATION

1976

BA with distinction
George Washington University
Washington, D.C.

1980

MD *Magna Cum Laude*
University of Maryland School of Medicine
Baltimore, Maryland

SPECIALTY BOARD CERTIFICATION

Internal Medicine 1983 certificate # 90797

Medical Oncology 1985 certificate # 90797

STATE LICENSURE Maryland (#D25357, 1980) exp. 09/30/14

POSITIONS HELD

2008-2009 Acting Clinical Director, National Cancer Institute, National Institutes of Health, Bethesda, MD

2007-present Scientific Director for Clinical Research, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

2005-2007 Acting Scientific Director for Clinical Research, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

2005-2007 Acting Chief, Medical Oncology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

POSITIONS HELD *continued*

2001-present Deputy Director, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD

1999-present Professor of Pediatrics, Part-Time, Johns Hopkins University, Baltimore Maryland

1999-present Professor of Oncology, Part-Time, Johns Hopkins University, Baltimore Maryland

1997-2007 Chief, Pediatric Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1996-1997 Acting Chief, Pediatric Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1995-1996 Acting Deputy Chief, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1993-present Head, Molecular Oncology Section, Pediatric Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1994-1998 Associate Professor of Pediatrics, Uniformed Services of the Health Sciences, F. Edward Hébert School of Medicine, Bethesda, MD

1990-1992 Medical Officer, Molecular Genetics Section, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1987-1990 Senior Staff Fellow, Molecular Genetics Section, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

1986-1987 Biotechnology Fellow, Molecular Genetics Section, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD

- 1984-1986 Medical Staff Fellow, Molecular Genetics Section, Pediatric Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 1983-1984 Medical Staff Fellow, Pediatric Branch and Medicine Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD
- 1982-1983 Senior Assistant Resident in Internal Medicine, Barnes Hospital, St. Louis, MO
- 7/82-12/82 Chief Resident, Washington University Medical Service, St. Louis Veterans Administration Medical Center, St. Louis, MO
- 1981-1982 Junior Assistant Resident in Internal Medicine, Barnes Hospital, St. Louis, MO
- 1980-1981 Internship in Internal Medicine, Barnes Hospital, St. Louis, MO

SOCIETIES

- American Association of Cancer Research, Member
- Clinical Pharmacology/Modality-based Clinical Research Section, Clinical Research Subcommittee, 2001 Program Committee, 2001
- Pediatric Cancers-Basic Science to the Clinic Section of the Clinical Research Subcommittee, 2003 Program Committee
- Pediatric Oncology Task Force, 2003-present, Chair, 2009-present
- Subsection Committee Member, 2004 Program Committee
- Pediatric Cancer-Basic Science Section, Cellular, Molecular and Tumor Biology Subcommittee; Pediatric Cancer-Clinical Investigations Section, Clinical Research Subcommittee, 2004 Program Committee
- Grants Committee, 2004-2006
- Pediatric Cancers-Basic Science and Pediatric Cancer-Clinical Investigations Sections, 2005 Program Committee
- AACR-NCI-EORTC International Conferences Scientific Advisory Committee, 2006-present; Co-Chair Molecular Targets Program Committee for 2013 Meeting
- Sarcoma Expert Panel, 2007
- Translational Cancer Medicine Think Tank, 2007
- Centennial Award for Childhood Cancer Research Selection Committee, 2007
- Special Conferences Committee 2007-2010
- Program Committee Co-Chairperson, 2008 Annual Meeting, New Concepts in Organ-Site Research Pediatric Cancers, Diagnosis and Treatment of Pediatric Cancer: From 20th Century successes to 21st Century Opportunities
- Publications Committee, 2008-2011
- Science Education Committee 2008-2011
- 2008 Annual Meeting, Meet-the-Expert session: Translating Cancer Biology into Cancer Medicine: IGFIR Ab Development in Sarcomas
- Clinical and Translational Cancer Research Committee Steering Committee 2009-2012, 2012-2015

- 2010 Annual Meeting, Pediatric Cancer Educational session: New Perspectives in Pediatric Cancer - From Preclinical Models to Targeted Therapies: Targeting the IGF1R in Pediatric Sarcomas – An Evolving Story
- 2010 Annual Meeting, New Concepts in Organ Site Research session: Bridging the Gap: Moving Laboratory Discoveries into Clinical Trials: Development of “Achilles Heel” Screening in Rhabdomyosarcoma Identifies Novel Therapeutic Targets
- 2011 Annual Meeting, Pediatric Oncology Subcommittee of the Scientific Program Committee; Translational Research-Molecular Biology in the Clinic Subcommittee of the Clinical Research Section, Scientific Program Committee
- 2012 Annual Meeting Scientific Program Committee; Annual Meeting Clinical Trials Committee

American Society of Clinical Oncology, Member

- Program Committee 1990
- Board of Directors (Specialty Other Than Medical Oncology/Hematology), 2003-2006
- Audit Committee, 2003-2006, Chair 2004-2006
- 2004, 2005 International Travel Grants Mentorship Program
- Cancer Communications Committee 2004-2006

SOCIETIES *continued*

- Board Liaison to Committee and Task Forces 2004-2006
- Governance Task Force 2005
- Bylaws Committee Chair-Elect 2007-2008, Chair 2008-2009, Immediate Past Chair 2009-2010
- Special Awards Selection Committee 2007
- Advanced Clinical Research Award in Sarcoma Subcommittee, ASCO Cancer Foundation 2008
- Chair, Clinical Science Symposium, Emerging Targets for Sarcoma Therapy, 2008 Annual Meeting
- Chair Education Session: Translocation-Specific Sarcomas: Can Molecular Targets Translate to Therapeutics?: IGF1R Targeting of Translocation-Associated Sarcomas, 2010 Annual Meeting

Connective Tissue Oncology Society

- Founding Member 1995
- Board of Directors 1996-1998
- Treasurer 1998-1999; Secretary 1999-2000; Vice President 2000-2001, President 2001-2002, Immediate Past President 2002-2003

NATIONAL SERVICE

- Cancer Research Foundation of America Grant Reviewer, 1990
- Israel Science Foundation Grant Reviewer, 1993
- Dutch Cancer Society Grant Reviewer, 1994
- American Cancer Society Grant Reviewer
- International Human Frontier Science Program Grant Reviewer, 1995
- U.S. Army Medical Research and Materiel Command Breast Cancer Research Program-Endocrinology 3 Study Section, 1996
- National Cancer Institute of Canada — Program Project Review, 1996
- Children’s Cancer Foundation — Medical Advisory Board, 1996-2008; Chairman, 2000-2008; Grant Review Panel Chairman, 2000-2008
- Children’s Inn at NIH — Board of Directors & Clinical Advisor, 1997-present; Secretary, Board of

Directors, 2004-2005; Co-Chair, Board Development Committee, 2005-2012; Board Chair, 2012-2014

Dept. of Veterans Affairs, VA Palo Alto Health Care System Grant Reviewer, 1997

Israel Cancer Research Fund - Scientific Review Panel, 1997-1999, 2008

Association for International Cancer Research Grant Reviewer, 1998

US Israel Bi-National Science Foundation Grant Reviewer, 1998

Ohio Cancer Research Associates Grant Reviewer, 1999

Israel Cancer Research Fund Scientific Advisory Board, 1999-present

Candlelighters Ad Hoc Grant Reviewer, 1999, 2000

Children's Oncology Group Ewing's Biology Committee, 2000-present, Bone Sarcoma Disease Committee, 2001-present, Scientific Advisory Committee, 2001-present

American Joint Committee on Cancer Bone Task Force, 2000-present

Canadian Institutes of Health Research Grant Reviewer, 2000

Scientific Review Board, Cancer Research Foundation of America's Hope Street Kids, 2000-present

International Consortium for CURE of Childhood Cancer in China, National Cancer Institute Representative and Senior Consultant, 2000-present

Scientific Advisory Board, Children's Cancer Research Institute, Vienna, Austria, 2001-present

NATIONAL SERVICE continued

Johns Hopkins Oncology Center, Advisory Committee for the Lab Research Training in Pediatric Oncology-Hematology Training Grant, 2001-present

Cancer Research UK, United Kingdom Grant Reviewer, 2001-present

Sarcoma Foundation of America Medical Advisory Board, 2002-present

National Cancer Institute of Canada Review Team for Program Project Applications, 2002

Ireland-Northern Ireland-National Cancer Institute Cancer Consortium, Implementation Group Member, 2003-present; Strategic Advisory Group Member, 2006-present, Member Scholar Exchange Working Group, 2008-present

European Commission's 6th Framework Programme for Research and Demonstration Activities, Major Diseases Unit for Cancer-Evaluation of European Projects on Cancer Research, 2005

Coaches Curing Kids' Cancer, Co-Chair Medical Advisory Board, 2005 to present

MD Anderson Cancer Center, External Advisory Board for the Department of Sarcoma Medical Oncology, 2006

Samuelsson Foundation Grant Reviewer, 2006-present

Cincinnati Children's Hospital Medical Center Research Foundation, Scientific Advisory Council, 2006

Life Raft Group Grant Reviewer, 2006-present

Maine Institute for Human Genetics & Health, Founding Member, 2007, and Chair, Scientific Advisory Board, 2007-2009

Children's Research Institute at Children's National Medical Center, Scientific Advisory Committee, 2007-2010

Alex's Lemonade Stand Fund Grant Program Grant Reviewer, 2008-present

Foster Foundation Advisory Board, 2008-present

EuroBoNeT Consortium, External Advisory Board, 2009-2011

8th International Symposium on Targeted Anticancer Therapies (TAT 2010), Organizing Committee, 2009-2010

Irish Cancer Society, Grant Reviewer, 2010

Irish Medicines Board, Expert Panel of the Clinical Trials Subcommittee, 2010, 2011
Clinical Trials Network of Texas, CTNet, External Advisory Board, 2010-2013
Baylor College of Medicine, External Advisory Board, Project: Targeted Therapies for Metastatic Osteosarcoma, 2010-2015
Stand Up To Cancer, Scientific Advisory Committee, 2012-present
Stand Up To Cancer-St. Baldrick's Pediatric Dream Team Translational Cancer Research Grant, Co-Vice Chair, Joint Scientific Advisory Committee, 2012-present

NIH SERVICE

Ad Hoc Review Committee — Programs of Excellence in Endocrinology, National Institute of Diabetes and Digestive and Kidney Diseases, 1990
Ad Hoc Review Committee — Endocrine Aspects of Human Neoplasia, National Institute of Diabetes and Digestive and Kidney Diseases, 1990
Institutional Review Board Panel, 1995-1997
Non-Melanoma Vaccine Working Group Steering Committee, NCI 1998-present
NCI/Frederick Cancer Research and Development Center Committee, 1998-present
NCI Intramural Advisory Board, NIH, 1998-2002; Vice Chairman, 2000, Chairman, 2001, 2002; NCI Intramural Working Group Co-Chair, 2000, 2001
Pediatric Care Committee, Clinical Center, NIH, 1998-2000
NIH SERVICE *continued*
Office of Research Services Advisory Committee, NIH, 1998-2002
White Ribbon NCI Ethics Panel, 1999-present
Physician Data Query, NCI, Reviewer of Clinical Trial Protocols, 1999-present
NIH Clinical Research Training Program Tutor/Mentor, 2000-2008
NIH Clinical Center Review Team Bench-to-Bedside Awards, 2001, 2002, 2003, 2004, 2005
NCI Cellular, Molecular and Developmental Biology Faculty Steering Committee, 2001-2005
NCI Metastasis Working Group Steering Committee 2003-present
NCI Title 42 Standing Committee, 2002-2008
NCI Intramural Clinical Trials Committee, 2002-present
NCI Sarcoma Progress Review Group, Executive Director, 2003-present
Board of Governors, Warren Grant Magnuson Clinical Center, NIH, 2003-2008 (Restructured and Renamed Advisory Board for Clinical Research in 2004)
Member, Clinical Center Careers in Clinical Research Committee, Advisory Board for Clinical Research, NIH, 2003-present, Chair, 2003-2006
NCI Roundtable Meeting of the Translational Research Working Group, 2006
NCI Clinical Trials Operations Committee, 2006-2008; renamed Clinical and Translational Research Operations Committee, 2008-present
NCI Molecular Targets Faculty Steering Committee, 2006-present
NCI Clinical Trials Advisory Committee, *Ex Officio*, 2007-present
NIH PET Steering Committee, Chair, 2007-2009
NCI Center of Excellence-Molecular Oncology Steering Committee, 2007
U.S.-Japan Cooperative Cancer Research Program Steering Committee, 2007-present
NIH Research Festival Symposia Co-Chair, 2008
Investigational Drug Steering Committee PAM (PI3K/Akt/mTOR) Task Force, 2008
NIH Intramural Working Group 2009-2011
NCI Center for Cancer Research Grand Rounds, *Recent Advances in Ewing's Sarcoma*, May 2008
NIH Bone Marrow Stromal Cell Transplantation Oversight Committee, 2008-present

NCI Experimental Therapeutics (NEXT) Development Committee, Co-chair, 2009-present; Senior Advisory Committee, 2009-present

EDITORIAL BOARDS

Editorial Board, *Clinical Sarcoma Research*, 2010-2015
Editorial Board, *Journal of Clinical Oncology*, 2008-2010, 2011-2013
Associate Editor, *Clinical Cancer Research* 2002-2007; Senior Editor 2007-2010
Associate Editor, *Cancer Research*, 2000-2007
Consulting Editor, *SARCOMA - A multidisciplinary Journal* (through 2005)
Editorial Board, *Clinical Proteomics*, 2003-2004
Associate Editor, *Journal of Pediatric Hematology/Oncology*, 2003-2004
Associate Editor, Principles and Practice of Pediatric Oncology, 6th Edition, July 2009-May 2011

HONORS AND AWARDS

Phi Beta Kappa, George Washington University, Washington, D.C. 1976
Alpha Omega Alpha, University of Maryland School of Medicine, Baltimore, MD 1979
ASCO Travel Awards 1986 and 1987
American Society of Clinical Investigation 1996

HONORS AND AWARDS *continued*

Israel Cancer Research Fund's Elliott Osserman Award for Distinguished Service in Support of Cancer Research 1999
NIH Merit Award 2002
Association of American Physicians 2003
NCI Director's Award 2005
NIH Director's Award 2006, 2009
Federal Technology Transfer Award 2005, 2006, 2010, 2011, 2012
The Life Raft Group Humanitarian Award 2008
ASCO Pediatric Oncology Award and Lecture: Pathways to New Targets for Pediatric Sarcomas, 2011 Annual Meeting
ASCO Statesman Award, 2011 Annual Meeting
NCI Women Scientists Advisors Mentoring and Leadership Award 2012
The Arielle Anacker Cancer Foundation Man of the Year for Outstanding Work in Research of Pediatric Bone Cancers 2012
British Association for Cancer Research Tom Connors Lecturer Award at the National Cancer Research Institute Cancer Conference, Liverpool, United Kingdom, 2012

PATENTS

Novel Immunotherapeutic Methods and Vaccines, 1999. U.S. Patent No. 5,997,869

Immunogenic Peptides and Methods of Use for Treating and Preventing Cancer: A peptide epitope and improvement thereof inducing T cell immunity to alveolar rhabdomyosarcoma in HLA-B7-positive individuals, 2011. U.S. Patent No. 7,867,977

RESEARCH INTERESTS

Research focuses on three major themes related to the biology and treatment of pediatric sarcomas, specifically rhabdomyosarcoma, Ewing's sarcoma and osteosarcoma: (1) determine the

pathophysiologic consequences of IGF signaling; (2) identify the molecular/biochemical determinants of the biology of these sarcomas; and (3) apply preclinical laboratory findings to develop novel clinical studies for these sarcomas.

INVITED LECTURES

International Symposium on Childhood Rhabdomyosarcoma-Speaker, Children's Hospital, Columbus, OH, October 1989

1st Robert Steel Foundation International Symposium on Molecular Genetics and Developmental Biology of Embryonal Rhabdomyosarcoma and Sarcomas of Bone in Children-Speaker, Memorial Sloan-Kettering Cancer Center, New York, NY, June 1990

UCLA Symposium on The Biology of Sarcomas-Speaker, Lake Tahoe, CA, March 1990

American Association of Cancer Research-Session Chairs, Biology of Cancer Poster Discussion, 1992, and Molecular Markers, Orlando, FL, 1993

Interdisciplinary Sarcoma Symposiums-Speaker, Boca Raton, FL, February 1993

4th International Symposium on Insulins, IGFs, and Their Receptors-Speaker, Woods Hole, MA, April 1993

9th Annual Forbeck Forum-Speaker, Hilton Head, SC, October 1993

INVITED LECTURES *continued*

1995 Endocrine Society Annual Meeting Plenary Session-Speaker, Washington, DC, May 1995

National Cancer Institute Clinical Oncology Grand Rounds-Guest Speaker, National Institutes of Health, Bethesda, MD, 1995 and 1997

Second Annual Connective Tissue Oncology Society Meeting-Speaker, Toronto, Canada, October 1996

Second Osteosarcoma Research Conference-Speaker, Bologna, Italy, November 1996

Clinical Center Grand Rounds, National Institutes of Health-Guest Speaker, Bethesda, MD, 1996 and 1998

American Society of Clinical Oncology-*Meet the Professor*, Denver, CO, May 1997

Memorial Sloan-Kettering Cancer Center Division of Solid Tumor Oncology Conference-Speaker, New York, NY, May 1997

Robert Steel Foundation International Symposium on Sarcomas, Memorial Sloan-Kettering Cancer Center-Speaker, New York, NY, September 1997

Wells Center for Pediatric Research Combined Seminar Series-Speaker, Indiana University, Indianapolis, IN, October 1997

8th International Congress on Anti-Cancer Treatment-Speaker Paris, France, Feb 1998

Centernet Grand Rounds Program, Clinical Center, National Institutes of Health-Guest Speaker, Bethesda, MD, March 1998

American & European Musculoskeletal Tumor Societies Presidential-Guest Lecturer, Washington, D.C., May 1998

Frances Hester Dornette Lecture, 16th Annual, The Jewish Hospital-Guest Lecturer, Cincinnati,

OH, May 1998

Robert Steel Foundation International Symposium on New Strategies for Stimulating and Augmenting Host Resistance to Malignant Cells-Speaker, Memorial Sloan-Kettering Cancer Center, New York, NY, October 1998

Hematology/Oncology Research Seminar, Children's Hospital of Philadelphia-Speaker, Philadelphia, PA, February 1999

Johns Hopkins University School of Medicine, Department of Oncology-Visiting Professor, Baltimore, MD, February 1999

Pharmacology and Toxicology Seminar Series, Dartmouth Medical School-Speaker, Hanover, NH, March 1999

American Society of Clinical Oncology 35th Annual Meeting-Panel Discussant Pediatric Solid Tumors, Atlanta, GA, May 1999

International Meeting on Multidisciplinary Approach to Treatment of Bone and Soft-Tissue Sarcomas-Speaker, Naples, Italy, June 1999

Serono Symposia USA's International Symposium on Growth Hormone in Immune Reconstitution: Basic and Clinical Studies-Speaker, St. Petersburg Beach, FL, October 1999

INVITED LECTURES *continued*

American Association for Cancer Research 91st Annual Meeting, Symposia Exploiting the Genetic Defects of Pediatric Tumors-Speaker, San Francisco, CA, April 2000

European Musculoskeletal Oncology Society-Mario Campanacci Lecturer, London, England, May 2000

American Society of Clinical Oncology 36th Annual Meeting, Distinguishing Between Fact and Fiction in the Treatment and Pathogenesis of Pediatric Solid Tumors-Education Session Chair New Orleans, LA, May 2000

Childhood Bone Sarcomas-Molecular Characterization and Growth Factors- Distinguished Guest Speaker Symposium, Hadassah Hospital, Jerusalem, Israel, July 2000

Training Scientists for the Forthcoming Decade, The Hospital for Sick Children-Keynote Speaker, Toronto, Canada, January 2001

Musculoskeletal Tumor Society Specialty Day, Diagnosis and Staging Session, Adjuvant Therapy: Immunotherapy-Speaker, San Francisco, CA, March 2001

European Organization for Research and Treatment of Cancer, Soft Tissue and Bone Sarcoma Group 25th Anniversary Meeting on Sarcomas-Speaker, Aarhus, Denmark, April 2001

University of Minnesota Department of Orthopaedic Surgery, Medical School and University of Minnesota Cancer Center-Visiting Professor in Musculoskeletal Oncology, April 2002

American Association for Cancer Research 93rd Annual Meeting-Forum Participant, The Best Targets in Sarcoma, San Francisco, April 2002

The 10th Federation Meeting of Korean Basic Medical Scientists 2002, Korean Society of Pathologists-Pathobiology of Pediatric Tumors-Guest Speaker, Seoul, Korea, May 2002

American Society of Clinical Oncology 38th Annual Meeting, Co-Chair-Discussant, Scientific Session, Sarcoma, Orlando, FL, May 2002

Symposium on Malignant Peripheral Nerve Sheath Tumors in Neurofibromatosis 1 and on Microarrays in Neurofibromatosis 1, The National Neurofibromatosis Foundation Meeting-Invited Participant, Aspen, CO, June 2002

Seattle Cancer Care Alliance/Sarcoma Service, University of Washington School of Medicine-Visiting Professor, Seattle, WA, June 2002

Cancer in Children, Adolescents and Young Adults Conference, Southern Illinois University School of Medicine-Keynote Speaker, Springfield, IL, September 2002

2nd Pediatric Oncology Conference-Methods In Drug Development, European School of Oncology-Invited Faculty, Rome, Italy, March 2003

National Cancer Institute Center for Cancer Research Grand Rounds, National Institutes of Health-Guest Speaker, Bethesda, MD, June 2003

VI International Colloquium on Hematology & Oncology-Invited Speaker, Ixtapa, Mexico, August 2003

Experimental Hematology-Hematology/Oncology Seminar Series, Children's Hospital, Medical Center-Guest Speaker, Cincinnati, OH, September 2003

INVITED LECTURES continued

Grand Rounds, St. Jude Children's Research Hospital-Guest Speaker, Memphis, TN, September 2003

Symposium Advances and Prospects in Pediatric Cancer Research, Children's Cancer Research Institute, St. Anna Children's Hospital-Speaker, Vienna, Austria, November 2003

Baylor College of Medicine-Guest Speaker, Houston, TX, December 2003

Huntsman Cancer Institute, Sarcoma Symposium-Invited Speaker, February 2004

The University of Texas MD Anderson Cancer Center and Memorial Sloan-Kettering Cancer Center, Adolescent and Young Adult Symposium, *Sarcomas in Adolescents and Young Adults*-Invited Speaker, April 2004

Norris Cotton Cancer Center, Dartmouth-Hitchcock Medical Center, Lebanon, NH, Grand Rounds speaker-September 2004

Children's Hospital, Boston, Orthopedic Research Seminar Series-Invited Speaker, December 2004

Grand Rounds, Cancer Institute of New Jersey-Grand Rounds-Invited Speaker, New Brunswick, NJ, February 2005

Tulane/Louisiana State University Center for Gene Therapy, Joint Journal Club-Invited Speaker, New Orleans, LA, March 2005

Sarcoma Meeting Stuttgart-Key Speaker, Stuttgart, Germany, June 2005

International Society of Pediatric Oncology 37th Conference-Keynote Lecture on behalf of the American Society of Clinical Oncology, Vancouver, BC, Canada, September 2005

Robert Steel Foundation for Pediatric Cancer Research, International Symposium, *Molecular*

Signatures Distinguishing the Clinical Behavior of Human Malignancies and Sensitivity to Targeted Therapeutics-Invited Speaker, New York, NY, November 2005

University of Chicago-Suzanne Berman Visiting Professor, Chicago, IL, December 2005

American Association for Cancer Research, *Meet-the-Expert Sunrise Session*-Invited Speaker, Annual Meeting 2006, Washington, DC, April 2006

American Society of Clinical Oncology, Education Session, *What Do You Do When Adult Cancers Occur in Children?*-Invited Speaker, Annual Meeting 2006, Atlanta, GA, May 2006

Interdisciplinary Meeting on Soft-Tissue Sarcomas-Invited Speaker, Milan, Italy, May 2006

Connective Tissue Oncology Society 12th Annual Meeting-Nina Axelrad Lecture, Venice, Italy, November 2006

Texas Children's Cancer Center's Donald J. Fernbach, M.D. Lectureship: Series Research Seminar-Invited Speaker, Houston, TX, November 2006

3rd All-Ireland Cancer Conference-Plenary Speaker, Belfast, Northern Ireland, November 2006

Gordon Research Conference, *Insulin-like Growth Factors in Physiology & Disease*-Invited Speaker, Ventura, California, March 2007

American Association for Cancer Research 98th Annual Meeting-Moderate Forum, Use of Anti-Angiogenesis Therapy in Pediatric Cancer, *New Approaches to Anti-Angiogenic Therapy in Pediatric Cancer: From Pets to People*, Los Angeles, CA, April 2007

INVITED LECTURES continued

American Association for Cancer Research 98th Annual Meeting-Co-Chair Session: New Concepts in Organ-Site Research & Speaker: *The IGF/mTOR Pathway in Round Cell Sarcomas-Therapeutic Implications*, Los Angeles, CA, April 2007

Croatian Medical Association and Croatian Oncological Society, Workshop: Clinical Oncology in Croatia-Strategic Planning and Beyond, *Overview of Pediatric Oncology*, Zagreb, Croatia, May 2007

American Society of Clinical Oncology Annual Meeting, CDA/YIA Scientific Session, Expert Panel/Discussant, June 2007

Croatian Medical Association and Croatian Oncological Society, 1st U.S.-Croatian Conference on the ICT, Biotechnology and Pharmaceutical Industry, Special lecture: *The Scientific Collaboration between U.S. and Croatia in Oncology: The Role of the U.S. National Cancer Institute*, Split, Croatia, October 2007

Lombardi Comprehensive Cancer Center, Georgetown University Medical Center, Visiting Professorship Seminar, *From IGF to mTOR Signaling in Pediatric Sarcomas-Opportunities for Novel Therapeutic Intervention*, Washington, DC, January 2008

Pediatric & Adolescent Osteosarcoma...Progress from the Past, Prospects for the Future, Keynote Summary Speaker, *Strategies to Explore New Approaches in the Investigation and Treatment of Osteosarcoma*, Children's Cancer Hospital at The University of Texas, M.D. Anderson Cancer Center, Houston, TX, March 2008

American Association for Cancer Research, Advances in Cancer Research: From the Laboratory to the Clinic, Novel Therapeutics, Invited Speaker: *From IGFIR to mTOR and Back Again-Targeting the IGF Signaling Pathway in Sarcomas*, Dead Sea, Jordan, March 2008

European Society for Medical Oncology (ESMO) International Symposium on Soft-Tissue

Sarcomas and GIST, Invited Faculty and Speaker, Educational Program and Faculty Roundtable Discussion, Milan, Italy, May 2008

European Commission 3rd Workshop on Molecular Targets for Cancer, Invited Speaker, *Targeting the IGF1R in Pediatric and Adult Sarcomas*, Bergen, Norway, July 2008

American Academy of Orthopaedic Surgeons/Orthopaedic Research Society's Molecular Biology and Therapeutics in Musculoskeletal Oncology Research Symposium, Translating Ewing's Biology to Clinical Trials, Salt Lake City, UT, September 2008

American Academy of Pediatrics, Section on Surgery Meeting, Symposium: Innovative New Technologies to Fight Pediatric Cancer: AAP Session on Cancer, Invited Faculty, *Targeted Therapy for Pediatric Sarcomas*, Boston, MA, October 2008

20th EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, Scientific Committee and Chair, Plenary Session on Proffered Papers, Geneva, Switzerland, October 2008

Children's Cancer Research Institute, 20th Anniversary Celebration International Scientific Symposium - Innovation and Translation-Bridging the Gap in Pediatric Oncology, Co-Chair Therapeutic Promise of Receptor Tyrosine Kinases Session & Keynote Speaker, *Targeting the IGF Pathway in Pediatric Sarcomas: Lessons Learned and Questions Raised*, Vienna, Austria, November 2008

4th All-Ireland Cancer Conference, Invited Speaker: Session "Cancer in Children, Adolescents and Young Adults," chair session Clinical Trials-From Drug Discovery to Bedside, and mini-symposium presented by the Irish Association for Cancer Research, Translating Cancer Biology into Cancer Medicine, Dublin, Ireland, November 2008

INVITED LECTURES continued

University of Maryland, Cancer Dynamics Colloquium, Invited Speaker: *Translating Cancer Biology into Cancer Medicine*, College Park, MD, December 2008

National Cancer Institute, Immunology & Inflammation Seminar Series, Invited Speaker: *Targeting the IGF Pathway in Pediatric Sarcomas-Lessons Learned and Questions Raised*, Frederick, MD, February 2009

Andrew H. Weinberg Memorial Lecture, 2009 Invited Speaker: *Targeting IGF Signal in Sarcomas: Past-Present and Future*, Dana-Farber Cancer Institute, Boston, MA, April 2009

Weinberg Memorial Lecture, Pediatric Grand Rounds, Invited Speaker: *Identifying Pathways Critical for Survival of Pediatric Sarcomas: Something Old, Something New*, University of Chicago, Chicago, IL, September 2009

Vanderbilt-Ingram Cancer Center, Ingram Distinguished Lecturer: *Achilles Heel: Screening in Rhabdomyosarcoma Identifies Novel Therapeutic Targets*, Nashville, TN, February 2010

European Society for Medical Oncology (ESMO), Invited Lecturer: Session - How to Use Molecular Targeted Therapy, *Advances in Inhibition of IGFR*, Milan, Italy, March 2010

Huntsman Cancer Institute Seminar Series, Invited Speaker: *Translating Cancer Biology into Cancer Medicine: IGF1R Ab Development-Lessons Learned and New Questions*, University of Utah, Salt Lake City, UT, April 2010

Hospital for Sick Children, University of Toronto, Third Annual International Sarcoma Awareness Week Symposium, Keynote Speaker: *New Targets for the Treatment of Pediatric Sarcomas*, Toronto, Canada, July 2010

Antibody Engineering and Immunotherapeutics for the 21st Century, Annual Meeting of The Antibody Society, Invited Speaker: *Targeting the IGF1R in Pediatric Sarcomas – Lessons Learned and Questions Remaining*, San Diego, CA, December 2010

Nitschke-Kaskaske Endowed Lecture, Invited Speaker, Pediatric Grand Rounds, University of Oklahoma Health Sciences Center: *Targeting the IGF1R in Pediatric Sarcomas – Lessons Learned and Questions Remaining*, Oklahoma City, OK, April 2011

Ann T. Bass Endowed Lecture Series in Hematology, Oncology, and Stem Cell Transplantation, Grand Rounds: *Targeting IGF1R in Pediatric Sarcomas – Lessons Learned and Remaining Questions*, Stanford University, Palo Alto, CA, May 2011

16th ECCO (European Cancer Organisation) – 36th ESMO (European Society of Medical Oncology) Multidisciplinary Cancer Congress, Invited Speaker: Scientific Symposium on The Role of IGFs/IGF-1R Pathway in Paediatric Malignancies, *IGF1R Inhibitors in the Treatment of Ewing Sarcomas*, Stockholm, Sweden, September 2011

Division of Cancer Medicine Grand Rounds, Invited Speaker: *Pathways to New Therapeutic Targets in Sarcoma*, M.D. Anderson Cancer Center, Houston, TX, October 2011

Targeting Sarcomas, Invited Speaker: *Targeting Ewing Sarcoma and Novel Clinical Studies in RMS and OS*, Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel, November 2011

Pediatric Cancer Translational Genomics Conference, Invited Speaker: *Translational Genomics: The Good, The Bad, and The Ugly*, Scottsdale, AZ, February 2012

INVITED LECTURES continued

European Society for Medical Oncology - 4th Sarcoma and GIST Conference, Invited Faculty and Speaker: *Identification and Validation of New Targets*, Metastatic Sarcoma Session, Milan, Italy, March 2012

Central European Oncology Congress-A Best of ASCO Meeting, Invited Speaker: *Lessons for Cancer Medicine from Pediatric Cancers*, Croatian Oncology Society, Opatija, Croatia, June 2012

European Science Foundation- European Molecular Biology Organization (ESF-EMBO) Symposium - Molecular Biology and Innovative Therapies in Sarcomas of Childhood and Adolescence, Invited Speaker: *Targeting the CRKL/Src Family Kinases in Rhabdomyosarcoma*, Polonia Castle in Pultusk, Poland, September 2012

National Cancer Research Institute Cancer Conference, Plenary Speaker: *Targeting the CRKL/Src Family Kinases in Rhabdomyosarcoma*, Liverpool, United Kingdom, November 2012

Ramanbhai Foundation 6th International Symposium on Advances in New Drug Discovery Technologies and Translational Research, Keynote Speaker: *Combined Targeted Therapy in Sarcomas- Pathways to Success?*, Ahmedabad, India, February 2013

BIBLIOGRAPHY

1. Von Hoff DD, Penta JS, Helman LJ, and Slavik M. Incidence of drug-related deaths secondary to high-dose methotrexate and citrovorum factor administration. *Cancer Treat Rep*, 61(4):745-8, 1977.
2. Von Hoff DD, Rozenzweig M, Soper WT, Helman LJ, Penta JS, Davis HL, and Muggia FM. Whatever happened to NSC ___? An analysis of clinical results of discontinued anticancer agents. *Cancer Treat Rep*, 61(5):759-68, 1977.
3. Plaut SM, Walker-Bartnick L, Helman LJ, Ginsberg R, Rapoport RG, Plaut JM, Cannon MJ, and Dies RR. Improving staff-student relations: effects of a humanistic medicine programme. *Medical Teacher*, 2(1):32-9, 1980.
4. Helman LJ, Ozols RF, and Longo DL. Thrombocytopenia and extragonadal germ-cell neoplasm. (Letter) *Ann Int Med*, 101(2):280, 1984.
5. Helman LJ, Thiele CJ, Linehan WM, Nelkin BD, Baylin SB, and Israel MA. Molecular markers of neuroendocrine development and evidence of environmental regulation. *Proc Natl. Acad Sci USA*, 84:2336-9, 1987.
6. Helman LJ, Gazdar AF, Park J-G, Cohen PS, Cotelinghan JD, and Israel MA. Chromogranin A expression in normal and malignant human tissues. *J Clin Invest*, 82:686-90, 1988.
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