

## CURRICULUM VITAE

Name Diane S. Krause MD, PhD  
Professor of Laboratory Medicine, Pathology and Cell Biology  
Yale University School of Medicine

Director, Yale Cooperative Center of Excellence in Hematology  
Medical Director, Clinical Cell Therapy Processing Laboratory  
Medical Director, Yale Laboratory for Advanced Cell Therapy  
Associate Director, Transfusion Medicine  
Associate Director, Yale Stem Cell Center

### Education

Sc.B. Brown University (Biology) 1982  
Ph.D. University of Pennsylvania School of Medicine (Cell and Molecular Biology) 1990  
M.D. University of Pennsylvania School of Medicine 1990

### Career/Academic Appointments

1983-1988 Teaching Assistant and Laboratory Instructor,  
Department of Cell Biology, University of Pennsylvania, Philadelphia, PA

1990-1993 Resident, Clinical Pathology,  
Hospital of the University of Pennsylvania, Philadelphia, PA

1992 Chief Resident, Clinical Pathology  
Hospital of the University of Pennsylvania, Philadelphia, PA

1992-1995 Postdoctoral Research Fellow in Oncology, The Johns Hopkins Oncology Center,  
Johns Hopkins University School of Medicine, Baltimore, MD

1995-2001 Assistant Professor, Department of Laboratory  
Medicine, Yale University School of Medicine

1997-2001 Assistant Professor, Department of Pathology (secondary appt)  
Yale University School of Medicine

2001-2004 Associate Professor, Department of Laboratory  
Medicine, Yale University School of Medicine

2001-2004 Associate Professor, Department of Pathology (secondary appt)  
Yale University School of Medicine

2004-2007 Associate Professor with tenure, Department of Laboratory Medicine,  
Yale University School of Medicine

2004-2008 Associate Professor with tenure, Department of Pathology and Cell Biology (secondary appt), Yale  
University School of Medicine

2007- present Professor, Laboratory Medicine, Yale University School of Medicine

2008- present Professor (secondary appointments) in both Pathology and Cell Biology,  
Yale University School of Medicine

### Administrative Positions

1995-2001 Assistant Director, Transfusion Medicine

	Yale New Haven Hospital
1996-present	Medical Director, Clinical Cell Therapy Processing Laboratory Yale New Haven Hospital
1996-present	Director, Yale Laboratory of Molecular Hematology Yale University School of Medicine
1996-2005	Director, Frisbee Clinical Cell Therapy Research Laboratory Yale University School of Medicine
2001-present	Associate Director, Transfusion Medicine Yale New Haven Hospital
2005-2012, 2015-	Director, Yale Center of Excellence in Molecular Hematology
2006-present	Associate Director, Yale Stem Cell Center
2015 -	Director, Yale Center for Advanced Cell Therapy

#### Board Certifications

Diplomate, National Board of Medical Examiners, 1991

Licensed to Practice Medicine, State of Pennsylvania, 1992

Diplomate, American Board of Pathology, 1994

Licensed to Practice Medicine, State of Connecticut, 1995

#### Professional Honors and Awards

1982	Anne Crosby Emery Alumnae Fellowship for Graduate Study from Brown University, Providence, Rhode Island
1983 - 1990	NIH Medical Scientist Training Program Fellowship
1986	John G. Clark Prize for Clinical Research, Hospital of the University of Pennsylvania, Philadelphia, PA
1994 - 1996	Leukemia Society of America Fellow Award Paul Vincent Jenkins Memorial Fellowship Award
1994	Stetler Award for Women Physicians
1996	Yale Cancer Center Research Award (ASC IRG)
2000	Manuscript on bone marrow stem cell plasticity cited as best article of the year by Editor of the journal Hepatology
2001	Best Abstract Award, ISHAGE (now ISCT) Annual Meeting
2006	Champion of Advocacy Award, American Society of Hematology Grassroots Network
2007	Inducted as member of the Connecticut Academy of Science and Engineering

- 2012 Selected for the Executive Leadership in Academic Medicine (ELAM) program for 2012-2013.
- 2013 2013 Tibor Greenwalt Memorial Award and Lectureship, American Association of Blood Banks (presented Tibor Greenwalt Lecture at AABB Annual Mtg in Denver in 2013)
- 2013 2013 Leadership in Biomedicine Lecture and Award, Office of Student Research, Yale School of Medicine
- 2016 2016 Alvine Life Sciences and Innovation Lectureship, University of New Haven

Grants for the past 16 years

ACTIVE (65% effort covered as of Feb, 2017)

Agency: NIH/NIDDK  
 I.D.# NIH R01 DK094934  
 Title: *Mechanisms of megakaryocyte maturation*  
 PI: Diane Krause (20% effort)  
 Project period: 12/1/12 – 11/30/17

Agency: NIH  
 I.D.# 1U54DK106857-01  
 Title: *Yale Cooperative Hematology Specialized Core Center*  
 PI: Diane Krause (15% effort), MPI: Patrick Gallagher  
 Project period: 7/01/2015 – 6/30/2020

Agency: State of CT Stem Cell Research Fund  
 Title: *Human Embryonic Stem Cell Core Facility at Yale Stem Cell Center*  
 PI: Haifan Lin (Role: Co-Principal Investigator – 10% effort)  
 Project period: 3/2/07–8/31/16

Agency: NIH/NHLBI  
 I.D.# 1R21HL126001-01  
 Title: *Molecular Basis of Dominantly Inherited Kidd-null Phenotype*  
 PI: Diane Krause (5% effort)  
 Project period: 12/1/2014 - 11/30/16

Agency: State of CT Regenerative Medicine Research Fund  
 I.D.# 15-RMB-Yale-18  
 Title: *Regenerative Medicine for Hypoparathyroidism*  
 PI: Diane Krause (15% effort)  
 Project period: 12/1/15 – 11/30/18

COMPLETED

Agency: NIH/NIDDK  
 I.D.# NIH R01 DK094934 – S1  
 Title: *Mechanisms of megakaryocyte maturation – Single Cell Supplement*  
 PI: Diane Krause (10% effort)  
 Project period: 12/1/2014 – 11/30/2016

Agency: NIH/NIDDK  
 I.D.# NIH R01 DK086267  
 Title: *MKL in megakaryocytopoiesis*  
 PI: Diane Krause  
 Project period: 8/1/10 – 7/31/15

Agency: Women's Health Research at Yale  
Title: *Minimum cell complement required for parathyroid function after transplantation*  
PI: Diane Krause  
Project period: 10/1/14–9/30/15

Agency: Burroughs Wellcome Collaborative Research Travel Grant  
Title: *Collaborative studies for single cell epigenetic analysis*  
PI: Diane Krause  
Project period: 0/1/2014 - 12/31/15

Agency: State of CT Stem Cell Research Fund  
I.D.# 12-SCA-YALE-23  
Title: *Stem cells for cell therapy of hypoparathyroidism*  
PI: Diane Krause  
Project period: 10/15/12 – 10/14/14

Agency: NIH-NHLBI  
I.D.# NIH R01HL098220  
Title: *Lung Tissue Engineering*  
PI: Laura Niklason, Co-Investigator: Diane Krause  
Project period: 1/15/10 – 12/31/13

Agency: NIH-NHLBI  
I.D.# NIH RO1 HL073742  
Title: *Type II pneumocyte engraftment of bone marrow stem cells*  
PI: Diane Krause  
Project period: 7/1/09 – 4/30/13

Agency: State of CT Stem Cell Research Fund  
I.D.# Established Investigator grant  
Title: *Use of human embryonic stem cells and inducible pluripotent stem cells to study megakaryoblastic leukemia*  
PI: Diane Krause  
Project period: 10/1/10–9/30/13

Agency: NIH/NIDDK  
I.D.# NIH P30 DK0724429  
Title: *Yale Center of Excellence in Molecular Hematology (YCEMH)*  
PI: Diane Krause  
Project period: 9/30/05 – 8/31/12

Agency: J. P. McCarthy Fund Developmental Grant Program  
Community Foundation for Southeast Michigan  
Title: *SRF in Myelodysplasia*  
PI: Diane Krause  
Project period: 9/1/2009 – 8/31/2011

Agency: NIH/NHLBI  
I.D.# NIH 5R01HL082655-04  
Title: *Targeted Correction of the Human Beta-Globin Gene*  
PI: Peter Glazer, Co-Investigator: Diane Krause  
Project period: 9/1/07 – 7/31/11

Agency: NIH/NIDDK, K08  
Title: *Liver injury and repopulation by bone marrow stem cells*  
PI: Eugene Swenson MD, PhD, Mentor: Diane Krause  
Project period: 7/01/06 – 6/30/11

Agency/ID#: NIH NRSA, F31HL094118  
 Title: *MKL1 and megakaryocytic differentiation*  
 PI: Elenoe Smith, Mentor: Diane Krause  
 Project period: 9/8/08 – 9/7/11

Agency/ID#: NIH/NIDDK, K08 DK073366  
 Title: *Role of C/EBPepsilon in myeloid differentiation*  
 PI: Stephanie Halene MD, Mentor: Diane Krause  
 Project period: 3/01/06 – 2/28/11

Agency/ID#: State of CT Stem Cell Research Fund Established Investigator grant  
 Title: *Role of Leukemia Gene MKL in Developmental Hematopoiesis Using hES Cells*  
 PI: Diane Krause  
 Project period: 3/2/07–3/1/10

Agency/ID#: NIH NIDDK, RO1 DK61846  
 Title: *Epithelial differentiation of bone marrow derived stem cells*  
 PI: Diane Krause  
 Project period: 7/01/01 - 6/30/09

Agency/ID#: NIH P01 HL63357  
 Title: *Molecular Basis of Myelopoiesis*  
 PI: Bernard Forget, PI Project 2: Diane S. Krause  
 Project period: 8/1/99 – 7/31/09

Agency/ID#: NIH NHLBI, KO8 HL079066  
 Title: *Bone Marrow Progenitor Cells in Lung Injury and Repair*  
 PI: Erica Herzog MD, PhD, Mentor: Diane Krause  
 Project period: 12/17/04 – 11/30/09

Agency: Boehringer Ingelheim Pharmaceuticals, Consultancy Agreement  
 Title: *In vitro studies of anti-PSGL-1 on human hematopoietic cells*  
 PI: Diane Krause  
 Project period: 11/1/06 – 10/31/07

Agency: Genzyme (Gift Account)  
 Title: *Homing of human mesenchymal stem cells using a xenogeneic transplant model*  
 PI: Diane Krause  
 Project period: 12/31/03– 12/31/05

Agency: NIH/NIDDK, K08 DK063220  
 Title: *Role of Hsa12 in myelopoiesis and leukemogenesis*  
 PI: Li Chai MD, Mentor: Diane Krause → Daniel Tenen (Harvard Medical School)  
 Project period: 7/1/03 – 6/30/08

Agency: Families of Spinal Muscular Atrophy  
 Title: *Development of a novel therapy for spinal muscular atrophy*  
 PI: Diane Krause  
 Project period: 5/1/03 – 4/30/05

Agency: Children's Leukemia Research Assoc  
 Title: *Role of SHARP in myelopoiesis*  
 PI: Diane Krause  
 Project period: 1/1/03 – 12/31/03

Agency: RO1-DK58559-01  
 Title: *Hepatic engraftment of marrow cells in mice and humans*  
 PI: Neil Theise, PI Subcontract: Diane Krause

Project period: 10/1/01-9/30/05  
Agency: Yale Liver Center Pilot Project  
Title: *Identification of Bone Marrow Subpopulations Capable of Differentiating into Hepatocytes*  
PI: Diane S. Krause  
Project period: 9/1/00-8/31/02

Agency: Frisbee Foundation  
Title: *T Cell Depletion of Hematopoietic Stem Cells for Allogeneic Transplantation*  
PI: Diane Krause  
Project period: 11/1/98 - 10/31/00

Agency: Leukemia Lymphoma Society  
I.D.# Translational Research Award #6145-99  
Title: *Development of a Predictive Model of Human Hematopoietic Stem Cell Engraftment*  
PI: Diane Krause  
Project period: 9/1/98-8/31/01

Agency/ID#: NIH NIDDK, NIH R01 DK53037  
Title: *Stage-Specific Expression of CD34 in Early Hematopoiesis*  
PI: Diane Krause  
Project period: 9/1/97-8/31/02

Agency: National Blood Foundation  
Title: *Regulation of CD34 Expression During Hematopoiesis*  
PI: Diane Krause  
Project period: 7/1/97-10/30/98

Agency: American Cancer Society - Yale Cancer Center Research Award  
Title: *Regulation of Gene Expression in Hematopoiesis*  
PI: Diane Krause  
Project period: 3/1/98- 2/28/99

Agency: American Medical Association Clinical Research Fund  
Title: *Stage and Cell Type-specific Expression of CD34 During Hematopoiesis*  
PI: Diane Krause  
Project period: 4/15/97 - 4/14/98

Agency: Leukemia Society of America Postdoctoral Fellowship  
Title: *Regulation of CD34 Expression in Developmental Hematopoiesis*  
PI: Diane Krause  
Project period: 7/1/94-9/30/97

#### **Invited Lectures and Visiting Instructorships**

April 1996 International Symposium on Recent Advances in Hematopoietic Stem Cell Transplantation, co-sponsored by ISHAGE and UCSD, San Diego

May 1997 International Meeting on Molecular Aspects of Myeloid Stem Cell Development, Annapolis, MD

April 1998 International Symposium on Recent Advances in Hematopoietic Stem Cell Transplantation, co-sponsored by ISHAGE and UCSD, San Diego

Oct. 1998 1<sup>st</sup> Annual Frisbee Symposium, on Cellular and Molecular Therapy of Cancer, Conference Co-director and Speaker, Yale University

Oct. 1998 American Association of Blood Banks Annual Meeting, Philadelphia, PA

May 1999 International Meeting on Molecular Aspects of Myeloid Stem Cell Development, Annapolis, MD

Oct. 1999 2<sup>nd</sup> Annual Frisbee Symposium on Cellular and Molecular Therapy of Cancer Conference Co-director and Speaker, Yale University

Nov. 1999 Leukemia Society of America, Stohlman Scholar Symposium, New York City, NY

June 2000 ISHAGE Annual Meeting, San Diego; Quebec City

July 2000 International Symposium on the Treatment of Leukemia, Lymphoma and Cancer, New York City

Sep. 2000 The New Stem Cells, Leiden, Netherlands

Sep. 2000 Leukemia Society of America and the National Cancer Institute, 2000 Translational Research Progress Report meeting, Washington, DC,

Oct. 2000 3<sup>rd</sup> Annual Frisbee Symposium on Cellular and Molecular Therapy, Conference Co-director and speaker, Yale University

Jan. 2001 Visiting Lecturer Series, Cornell Research Institute, Camden, NJ

Feb. 2001 Johns Hopkins Oncology Center, Baltimore, MD

April 2001 Recent Developments in Cord Blood Stem and Progenitor Cell Transplantation, Indianapolis, Indiana

June 2001 ISHAGE Annual Meeting, Quebec City, Quebec, CANADA

July 2001 Senate Appropriations Subcommittee Hearing, Washington, DC  
Invited to give Oral Testimony on human embryonic stem cell research, *prepared written testimony*

Aug. 2001 Genzyme, Framingham, MA

Oct. 2001 Genome Medicine: Gene Therapy for the Millennium, Rome, Italy

Nov. 2001 Workshop on Adult Stem Cells and Aging, Miami, FL

Nov. 2001 New York University, New York, NY

Nov. 2001 4<sup>th</sup> Annual Frisbee Symposium, on Cellular and Molecular Therapy of Cancer Conference Co-director and speaker

Nov. 2001 University of Wisconsin, Madison, Wisconsin

Dec. 2001 American Society of Hematology, Orlando FL

Feb. 2002 Biogen, Cambridge, MA

Feb. 2002 The Stem Cell Challenge, Vienna BioCenter, Austria, Invited Speaker and Instructor, *led wet laboratory, prepared written syllabus*

April 2002 University of Vermont, Department of Human Genetics

April 2002 International Symposium on Recent Advances in Stem Cell Transplantation, Heidelberg, Germany

April 2002 Harvard Transfusion Medicine Grand Rounds, Boston, MA

April 2002 Massachusetts General Hospital Immunology Seminar Series, Charlestown, MA

May 2002 State of the Art Talk, Pediatric Academic Societies' Annual Meeting, Baltimore, MD

Aug. 2002 Cold Spring Harbor Laboratory Course on Stem Cells, Cold Spring Harbor, New York (organized by Gordon Keller and Ron McKay)  
*Course instructor for hematopoietic stem cells and stem cell plasticity, lectured and prepared written syllabus*

Aug. 2002 Stem Cells on Land and at Sea, Mount Desert Island Biological Laboratory and the Jackson Laboratory, Bar Harbor, Maine

Sep. 2002 Innovative Therapies in Medicine (Terapias Innovadoras en Medicina: Expectativas Generadas por las Tecnicas de Manipulacion Genetica y de Transplante de Celulas Madre), San Lorenzo de El Escorial, Spain

Sep. 2002 Annual Meeting on Mesenchymal and Nonhematopoietic Stem Cells, New Orleans, LA

Nov. 2002 Annual Conference, American Society for Clinical Laboratory Science, Hartford, CT

Dec. 2002 Oral presentation, American Society of Hematology Annual Mtg, Philadelphia, PA

Feb. 2003 Frontiers in Gene Therapy Symposium, Stanford University, Palo Alto, CA

March 2003 Keynote Speaker, University of Iowa Research Week, Iowa City, Iowa.

April 2003 University of Cincinnati, Cincinnati, Ohio

April 2003 NIH NHLBI Stem Cell Meeting, Rockledge, MD

May 2003 Annual Myeloid Stem Cell Biology Mtg, Annapolis, MD

May 2003 Pfizer, Groton, CT

May 2003 American Thoracic Society National Meeting, Seattle, WA

June 2003 American Society for Clinical Oncology Annual National Meeting, Chicago, Illinois

July 2003 Tulane University, Center for Gene Therapy, New Orleans, LA

June 2003 International Society for Stem Cell Research 2003 Annual Meeting, Washington, DC

Aug. 2003 NHLBI Conference (Satellite symposium to Stem/progenitor cells in lung morphogenesis, injury repair, regeneration meeting) Boston, MA

Oct. 2003 Mesenchymal and Nonhematopoietic Stem Cell Mtg, New Orleans, LA, Invited Speaker

Oct. 2003 Stem cell symposium on stem cells at the New York Academy of Sciences, Invited Speaker

Nov. 2003 Regional Mtg American Association of Blood Banks, Worcester, MA

Dec. 2003 ASH Annual Meeting, San Diego, CA, "Meet the Expert" speaker

Jan. 2004 Keystone Symposia on Stem Cells Meeting, Keystone, CO

Feb. 2004 Moffitt Cancer Center, Tampa, FL

Feb. 2004 2004 American Society of Bone Marrow Transplantation Annual Meeting, Orlando, FL

Mar. 2004 Adult Stem Cells: A Challenge for the Future, Bologna, Italy

April 2004 AAA Annual Meeting of Experimental Biology 2004, Washington, DC

May 2004 International Society for Cell Therapy 10<sup>th</sup> Annual Meeting, Dublin, Ireland

May 2004 American Gastroenterology Association Annual Meeting, New Orleans, LA

July 2004 FASEB Summer Research Conference "Lung Surfactant: Cellular and Molecular Biology," Saxtons River, Vermont

Sep. 2004 International Symposium on Hematopoietic Stem Cells, Tuebingen, Germany

Sep. 2004 Cancer Research, London Research Institute, London, UK,

Oct. 2004 4<sup>th</sup> Annual Conference on Mesenchymal and Nonhematopoietic Stem Cells: Focus on Adult Stem Cell, New Orleans, LA

Nov. 2004 Stem Cells for New Medicine, Accademia Nazionale do Medicina, Genoa, Italy

April 2005 Women in Medicine Meeting, University of Vermont, Burlington, VT

June 2005 European Hematology Association, Annual Meeting, Stockholm, Sweden

July 2005 NIH Conference "Adult stem cells, lung biology, and lung disease," Burlington, VT

Nov. 2005 Connecticut Stem Cell Research Retreat, North Haven, CT., Coordinator and Invited Speaker

Dec. 2005 ACR Stem Cell Science Panel, New York, NY

Dec. 2005 ASH Annual Meeting, Atlanta, GA, Coordinator and Invited Speaker for Spotlight session on Stem Cells

Feb. 2006 AACR Cancer Stem Cell Workshop, Lansdowne, VA

April 2006 Whitehead Institute, Stem Cell Press Seminar, Cambridge MA

April 2006 AstraZeneca Chronic Obstructive Lung Disease (COPD) Symposium, Lund Sweden

April 2006 New York Medical College, New York, NY

May 2006 Temple University, Philadelphia, PA

July 2006 University of Louisville, Louisville, KY

Aug. 2006 The Mount Desert Island Stem Cell Symposium, Salisbury Cove, ME

Aug. 2006 Taiwan Society for Stem Cell Research, Taipai, Taiwan

Nov. 2006 Advances in Renal Research Stem Cell Conference, San Diego, CA, Organizing Committee and Speaker

Jan. 2007 Columbia University Medical Center, New York, NY

May 2007 Molecular Aspects Myeloid Stem Cell Meeting and Leukemia Workshop, Annapolis, MD

June 2007	Aspen Lung Conference, Aspen, CO
June 2007	Gordon Research Conference on Tissue Repair/Wound Healing and Tissue Regeneration, Colby Sawyer College, New Hampshire
July 2007	Stem Cells and Cellular Therapies in Lung Biology and Lung Diseases, University of Vermont, Burlington, VT
Dec.2007	ASH 49 <sup>th</sup> Annual Meeting and Exposition, Atlanta, GA
Jan. 2008	Transatlantic Airway Conference (TAC), Lucerne, Switzerland
April 2008	Invited Speaker, University of Aarhus, Aarhus, Denmark
Dec. 2008	ASH 50 <sup>th</sup> Annual Meeting and Exposition, Atlanta, GA
March 2009	StemCONN09, CT International Stem Cell Conference
March 2009	Gordon Conference on Cell Biology of Megakaryocytes and Platelets, Galveston, TX
June 2009	Keynote Speaker, Juvenile Diabetes Research Foundation Annual Mtg, Hartford, CT
June 2009	Bioethics Workshop, Yale Interdisciplinary Center for Bioethics, New Haven, CT
June 2009	International Society for Stem Cell Research, Barcelona Spain
November 2009	California State University, Sacramento, CA
November 2009	University of California, Irvine, CA
November 2009	Northeast Hematopoiesis/Leukemia Workshop at the Minary Center (New Hampshire)
December 2009	University of Edmonton (Alberta, CA)
April 2010	Connecticut College (New London, CT)
April 2010	New Frontiers in Transfusion Medicine (Brown Univ, Providence, RI)
May 2010	Women in Medicine, University of Vermont (Lake Tahoe, CA)
June 2010	Bioethics Workshop, Yale Interdisciplinary Center for Bioethics
July 2010	University College London Cancer Symposium (London, England)
March 2011	Gordon Conference on Cell Biology of Megakaryocytes and Platelets, (Galveston, TX)
May 2011	Baltic Stem Cell Meeting (Szcecin, Poland)
June 2011	Stem Cell Update (San Antonio and Dallas, Texas), Invited Speaker
September 2011	Yale/Cambridge Retreat (New Haven, CT)
March 2012	Hematology/Medical Oncology Research Seminar Series, Mount Sinai School of Medicine, New York, NY
May 2012	Ninth International Workshop on Molecular Aspects of Myeloid Stem Cell Development and Leukemia, Cincinnati, OH

September 2012 Wake Forest University, North Carolina

December 2012 American Society of Hematology, ASH Trainee Day Speaker

March 2013 Gordon Conference on Cell Biology of Megakaryocytes and Platelets (Galveston, TX)

April 2013 Executive Leadership in Academic Medicine, 2013 Annual Symposium (Drexel University)

May 2013 Baltic Stem Cell Meeting (Szczecin, Poland)

May 2013 Leukemia Lymphoma Society Annual Meeting (Stanford, CT)

July 2013 International MADS Box Conference (Canandagua, NY)

July 2013 Stem Cells and Cell Therapies in Lung Biology and Lung Diseases (Burlington, VT)

September 2013 Yale Cambridge Vascular Biology and Inflammation Conference

October 2013 Tibor Greenwalt Lecture, AABB Annual Meeting (Denver, CO)

November 2013 University of Cincinnati (Cincinnati, OH)

December 2013 Biological and Clinical Aspects of the use of Somatic Stem Cells in Regenerative Medicine (Wroclaw, Poland)

December 2013 Brigham & Women's Hospital Transfusion Medicine Grand Rounds (Boston, MA)

April 2014 University of Michigan (Ann Arbor, MI)

May 2014 International Workshop on Molecular Aspects of Myeloid Stem Cell Development and Leukemia (Cincinnati, OH)

July 2014 FASEB Meeting, Lung Stem Cells (Burlington, VT)

September 2014 New York Blood Center (New York City, NY)

September 2014 Yale Cambridge Vascular Biology and Inflammation Conference (Cambridge, England)

October 2014 University of Virginia (Charlottesville, VA)

October 2014 Novel Stem Cells Symposium (Providence, RI)

December 2014 Speaker at Myeloid Workshop, American Society of Hematology Annual Meeting (San Francisco, CA)

January 2015 Whitney Center (Hamden, CT)

March 2015 Stem Cell Applications in Cystic Fibrosis Conference (CF Foundation, Washington, DC)

May 2015 University of Pennsylvania/CHOP (Philadelphia, PA)

May 2015 University of Louisville (Louisville, KY)

July 2015 Stem Cells and Cell Therapies in Lung Biology and Lung Diseases (Burlington, VT)

October 2015 Northwestern University (Chicago, IL)

October 2015 Warsaw University (Warsaw, Poland)

December 2015	American Society of Hematology Annual Meeting (Orlando, FL), Scientific Section invited speaker
February 2016	Boston University (Boston, MA)
March 2016	NIH Single Cell Workshop, Invited Speaker (Bethesda, MD)
March 2016	University of Minnesota (Minneapolis, MN)
April 2016	University of New Haven (New Haven, CT)
May 2016	2016 Myeloid Stem Cell Development & Leukemia Conference (Cincinnati, OH)

### **Professional Services**

#### Grant reviews:

1999	NIH Scientific Advisory Panel for review of contract proposals for “Stem Cell Transplantation for the Treatment of Autoimmune Diseases.”
2000-2001	NIH, Ad Hoc Member of Heme 1 study section
2002	NIH NIDDK Program Project, site visit review committee
1996–2012	American Cancer Society IRG Review Committee
2002-2008	Brown-Coxe Fellowship Review Committee
2001-2010	AFM (Association Francaise contre le Myopathie, France)
2001	NIH Study Section/Pancreas RFA/01
2000-2006	The Wellcome Trust Review Committee
2003	NIH Study Section to review R01 tissue engineering grant (eSSS-M57) applications, NIBIB EB 03-010.
2003-2004	Swiss National Science Foundation grants
2003	NIH, Ad Hoc Member of Heme 2 Study Section
2002-2005	Yale University Funds and Fellowships Committee, Chair 2003-2004
2004	NIH Special Emphasis Panel for RO1 grant review
2004	Grant Review Board, Agency for Science, Technology and Research,
2004	Biomedical Research Council, (BMRC), Singapore
2004	Culpepper Fellowship Review Committee
2005	Burroughs-Wellcome Fellowship Review Committee
2005	Yale Liver Center Pilot Project Awards reviewer
2005	American Cancer Society Research Grants Review Committee
2005-2009	Member, NIH Hematopoiesis (HP) Study Section
2005	FFC, Italian Cystic Fibrosis Research Foundation
2005	Agence National de la Recherche, Paris, France
2007-2008	California Institute of Regenerative Medicine
2008	Yale Liver Center Pilot Project Awards reviewer
2009	FFC, Italian Cystic Fibrosis Research Foundation
2009	Yale Liver Center Pilot Project Awards reviewer
2009	International Program for Regenerative Medicine of the Spanish Ministry of Science and Innovation (Spain)
2009-present	Member, College of CSR Reviewers
2010	Fondation pour la recherche medicale (France)
2010	Member, NIH Special Emphasis Panel ZRG1 CVRS G (Lung Injury and Repair)
2010	NIH Special Emphasis Panel/Scientific Review Group 2010/10 ZHL1 CSR-S (K awards in stem cell research)
2010-present	California Institute of Regenerative Medicine
2011	NIH Special Emphasis Panel, VH-D02, Molecular and Cellular Hematology
2011	NIH Special Emphasis Panel, ZHL1 CSR-S (Career Enhancement for Stem Cell Research)
2011	NIH Special Emphasis Panel, Hematology and Vascular Biology
2011	Yale Liver Center Pilot Project grants review committee
2011	Yale Warner Fellowship Grant Review Committee

2011	Pilot Grants from the Yale Small Molecule Discovery Center
2011	Directors' Proposals for British Medical Research Council (MRC) Molecular Haematology Units
2011-2012	Anderson Endowment Selection Committee, Yale Univ.
2012	NIH Special Emphasis Panel/Scientific Review Group 2012/05 ZRG1 VH-D M
2012	Member Review Panel for Leading National Scientific Centers (KNOW) in Poland (Ministry of Science and Education, Poland)
2012	Chair: NYSTEM Consortia Peer Review Group (Scientific Peer Review Services)
2012	Instituto Pasteur Fondazione Cenci Bolognette
2013	Yale Liver Center Pilot Project grants review committee
2013	Center for Scientific Review Special Emphasis Panel ZRG1 VH-D (90)
2013	NIH Ancillary Studies in Clinical Trials Review
2014	NIH Special Emphasis Panel, ZDK1 GRB-6 M5, Collaborative Interdisciplinary Team Science in NIDDK Research Areas (R24)
2014	External reviewer for the Karolinska Institute
2015	NIH Special Emphasis Panel, ZDK1 GRB-6 M4, Collaborative Interdisciplinary Team Science in NIDDK Research Areas (R24)
2015	Molecular and Cellular Hematology Study Section (ad hoc, NIH)
2016 (Feb)	Molecular and Cellular Hematology Study Section (ad hoc, NIH)
2016	NIH Special Emphasis Panel, ZHL1 CSR-P (M2), Effect of Age on Heart, Lung, Blood, and Sleep Disorders (NHLBI)
2016	NIH Special Emphasis Panel, 2016/05 ZDK1 GRB-S (M5) Collaborative Team Science in NIDDK Research Areas in Hematology
2016	ACTS (2017/01 ACTS (Arthritis, Connective Tissue and Skin) Study Section/MOSS IRG/CSR/NIH)

Courses/Educational Sessions (in addition to unlisted lectures in multiple courses at Yale)

1999-2001	Faculty mentor for the Science, Technology, and Research Scholars Program at Yale University
2002	Visiting Professor for "Science and Values" course, Quinnipiac University, Hamden, CT, <i>Prepared written syllabus</i>
2002-2003	Visiting Professor for "Current Issues in Biotechnology" course Connecticut College, New London, CT, <i>prepared syllabus and teaching CD</i>
2001-2003	Coordinator and teacher of graduate student 680a seminar course, Yale University Biomedical Graduate Studies Program
2006	AACR Cancer Stem Cell Workshop, AACR 97 <sup>th</sup> Annual Meeting, Lansdowne, VA, Invited Educational Session Chairperson and Organizer
2006	Faculty member for the BioSTAR program for minorities in science
2006	ASN Annual Meeting Conference Co-Chair Stem Cells in Organ Maintenance and Repair, San Diego, CA
2006	ASH Annual Meeting, Scientific Committee on Transfusion Medicine, Chair: Trafficking of hematopoietic stem cells, Orlando, FL
2008-2009	Course director and teacher, graduate student PATH680/PHARM502 seminar course, Yale University Biomedical Graduate Studies Program
2011-2012	Course director and teacher, graduate student course in Stem Cell Biology, Yale University Biomedical Graduate Studies Program

Committees:

International

2001	ISHAGE, Organizing Committee for 2001 Annual Meeting
2000-present	International Society of Cell Therapy (ISCT), Chair of the Nonhematopoietic & Mesenchymal Stem Cells Committee
2002-2005	International Society for Experimental Hematology, Nominating Committee
2003-2009	ISCT Organizing Committee: Annual Mesenchymal Stem Cell Meeting
2005-2009	International Society for Experimental Hematology, Councilor, Board of Directors
2006-2012	International Society for Stem Cell Research (ISSCR): Abstract review committee for annual meeting
2011-present	Member, External Advisory Committee, Berlin School of Integrative Oncology (BSIO),

Charité Universitätsmedizin Berlin (Prof. Clemens Schmitt)

National

2001 - 2004 ASH (American Society of Hematology) Scientific Committee on Hematopoietic Stem Cells  
2001 - 2009 AABB Somatic Cell Therapy Standards Committee  
2003 - present ASH abstract reviewer, Coordinating reviewer in 2004, 2008  
2003 NIH National Heart, Lung, and Blood Institute Expert Panel to guide NHLBI in consideration of future grants on the use of stem cells for reparative /regenerative purposes  
2004 - 2008 ASH Transfusion Medicine Subcommittee  
2006 - 2015 American Society of Gene Therapy (ASGT), Embryonic Stem Cells and Tissue Engineering Committee  
2007-2012 ASH Hematologist Editorial Board  
2008 - present Abstract Reviewer, American Society of Gene Therapy Annual Meeting  
2013-2014 Advisory Board Member, The Greenwall Foundation proposal on early clinical trials using pluripotent stem cells (PI: Audrey Chapman, Univ. of CT)

State

2003 - present Member: Connecticut Stem Cell Coalition  
2006 - present Connecticut's International Stem Cell Research Symposium (StemCONN07, StemCONN09, StemCONN2011, StemCONN2013, StemCONN2015) Organizing Committee  
2007-present Member, Connecticut Academy of Science and Engineering  
2012 - present Member, CT Regenerative Medicine (formally Stem Cell) Research Advisory Committee  
2012 - 2013 Chair, Planning Committee: StemConn2013, International Stem Cell Research Symposium held in CT every 2 years

Yale

2002-2008 Funds & Fellowships Committee, Yale University School of Medicine (Chair: 2003-2005)  
2002-2004 Yale University Search Committee for Cancer Center Director  
2002-2006 Yale University Search Committee for Division Head of Pediatric Hematology/Oncology  
2004-2006 Chair of Yale Medical School Search Committee for Director of the Yale Stem Cell Program  
2005 Dean's appointment to Basic Science Strategic Planning Committee for Yale School of Medicine  
2008 Yale University Search Committee for Cancer Center Director  
1997-2012 MD PhD Admissions Committee  
1997-present YNHH/YSOM Transfusion Medicine Committee  
2000-present Clinical Stem Cell Transplantation Quality Control Committee  
2006-present Yale Biological Safety Committee Human Gene Transfer Subcommittee  
2006-2010 Embryonic Stem Cell Research Oversight Committee (ESCRO)  
2009-2014 Yale Term Appointments and Promotions Committee  
2010-2016 Executive Committee, post-doctoral T32 program, Department of Laboratory Medicine  
2016-present Co-PI, post-doctoral T32 program, Department of Laboratory Medicine  
2010-present Organizer, Yale Stem Cell Center Speaker Series  
2011-2015 Member, Steering Committee, Pathobiology T32 Training Grant (PI: Morrow)  
2012 Chair, Investigation Committee regarding research misconduct  
2012-present Member, Yale University Search Committee for Hematology Faculty  
April 2013 Invited Mentor: Yale Junior PI Annual Retreat, New Haven CT  
2015-present Member, Yale University Search Committee for Ophthalmology Chair  
2015 - present Director, Yale Cooperative Center of Excellence in Hematology  
2016 - Chair, Yale Biological Safety Committee Human Gene Transfer Subcommittee  
2016 - Member, Data Safety Monitoring Board, Caladrius Biosciences

**Membership in Professional and Scientific Societies**

Physicians for Social Responsibility (President, Philadelphia Chapter, 1990-1992)  
International Society for Cellular Therapy (previously ISHAGE)  
American Association of Blood Banks

International Society of Experimental Hematology  
American Society of Hematology  
International Society of Stem Cell Research  
American Society of Gene Therapy  
Connecticut Stem Cell Coalition  
CT Academy of Science and Engineering  
American Society for Investigative Pathology (FASEB)

### **Editorial Boards**

Blood (2002 - 2008)  
Experimental Hematology  
Cytotherapy  
Stem Cells  
Stem Cell Reviews (2005 - 2008)  
Contributing Editor, The Hematologist, ASH bimonthly publication (2007-2012)

### **Editor-in-Chief**

Co-Editor-in-Chief, Current Stem Cell Reports (2014 – present)

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3. Krause DS, Deutsch C. Cyclic AMP directly inhibits IL-2 receptor expression in human T cells: Expression of both p55 and p75 subunits is affected. *J. Immunology* 146:2285-2294, 1991.
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**Mentoring (current in Bold)**

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 Anita Huttner, Yale University, Dept. of Pathology (until 2015)  
 Dan Weiss, University of Vermont, Dept. of Internal Medicine (until 2015)  
 Oscar Colegio, Yale University, Dept. of Dermatology (*Chair: K Award Advisory Committee*) (until 2014)  
 Ann Haberman, Yale University, Dept. of Laboratory Medicine (until 2016)  
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