HELEN M. BLAU

Donald E. and Delia B. Baxter Foundation Professor

CURRICULUM VITAE

ADDRESS
Director, Baxter Laboratory for Stem Cell Biology
Stanford University School of Medicine
269 Campus Drive, CCSR Building, Room 4215
Stanford, California 94305-5175
Telephone: 1-650-723-6209 Fax: 1-650-736-0080
email: hblau@stanford.edu

PERSONAL DATA
Birthplace: London, England
Dual Citizenship: USA & United Kingdom
Languages: French and German
Spouse: David Spiegel
Children: Daniel Blau Spiegel and Julia Blau Spiegel

EDUCATION

1969	B.A., Biology, University of York, York, England
1970	M.A., Biology, Harvard University, Cambridge, MA
1975	Ph.D., Biology, Harvard University, Cambridge, MA

PROFESSIONAL EXPERIENCE

1975–1978	Postdoctoral Fellow, Division of Medical Genetics, Departments of Biochemistry and Biophysics, University of California, San Francisco
1978–1986	Assistant Professor, Department of Pharmacology, Stanford University
1986–1991	Associate Professor, Department of Pharmacology, Stanford University
1991–2002	Professor, Department of Molecular Pharmacology, Stanford University
1997–2002	Chair, Department of Molecular Pharmacology, Stanford University
1999–present	Donald E. and Delia B. Baxter Foundation Professor, Stanford University
2002–present	Director, Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology & Institute for Stem Cell Biology and Regenerative Medicine, Stanford University

HONORARY DOCTORATES

2003	University of Nijmegen, Holland
2018	University of York, England

HONORARY MEMBERSHIPS (elected)

1991	Fellow, American Association for the Advancement of Science (AAAS)
1995	National Academy of Medicine/Institute of Medicine
1996	American Academy of Arts and Sciences
2016	National Academy of Sciences
2017	Pontifical Academy of Sciences
2017	National Academy of Inventors
2018	American Philosophical Society
2019	American Institute for Medical and Biological Engineering

HONORS AND AWARDS

1978	March of Dimes Basil O'Connor Starter Award
1979	Mellon Foundation Faculty Fellow
1981	William M. Hume Faculty Scholar

1984	Research Career Development Award, National Institutes of Health
1989	SmithKline and Beecham Junior Faculty Scholar Award
1992	Resident Scholar, Bellagio Study Center of Rockefeller Foundation, Lake Como, Italy
1992	Senior Career Recognition Award of WICB, American Society for Cell Biology
1993	Excellence in Teaching Recognition, Committee on Courses and Curriculum, Stanford Medicine
1994	President, American Society for Developmental Biology
1995	MERIT Award, National Institutes of Health
1995	Nobel Forum Lectureship, Karolinska Institute, Stockholm, Sweden
1995	Yvette Mayent-Rothschild Visiting Professorship, Institut Curie and Institut Pasteur, Paris
1996 - 2000	National Advisory Council, NIH Institute on Aging
1997 - 2002	Initiator and Liaison, Stanford/Aventis Inc. $5 Million Innovative Grant Agreement
1997 - 1998	NATO Collaborative Research Programme, France
1999 - 2002	Board of Directors, American Society for Gene Therapy
1999	FASEB Excellence in Science Award
2001 - 2005	Initiator and P.I. Aventis/Gencell-Stanford $12 million Collab Agmt on Angiogenesis
2001	Fellow, American Heart Association, Council on Basic Cardiovascular Sciences
2001	McKnight Technological Innovations for Neuroscience Award
2001	Ellison Medical Foundation, Senior Scholar Award
2002	President, International Society of Differentiation
2003	Rolf-Sammet-Fonds Visiting Professorship, University of Frankfurt
2004	Harvard Board of Overseers
2011	Yvette Mayent-Rothschild Visiting Professorship, Institut Curie, Paris
2011	AACR-Irving Weinstein Award
2011	Member, Cercle de l'Union Interalliee
2011	Fulbright Senior Specialist, Institut Curie, Paris
2012	NIH Director's Transformative Research Award
2013	Yvette Mayent-Rothschild Visiting Professorship, Institut Curie, Paris
2013 - 2015	International Biomedical Imaging Cell Tracking Challenge Awards (3 consecutive years)
2015	Outstanding Inventor Award, Stanford University Office of Technology and Licensing
2015	Glenn Award for Research in Biological Mechanisms of Aging
2016	Stanford Inventor Hall of Fame, Stanford University Office of Technology and Licensing
2017	Li Ka Shing Foundation Award
2019	American Institute for Medical and Biological Engineering
2021	Courtesy Appointment, Department of Psychiatry and Behavioral Sciences, Stanford University
2021	Milky Way Foundation Award
2022	Board of Directors, International Society for Stem Cell Research
2023	Ernest McCulloch Lectureship, in honor of pioneering stem cell biologist, International Society for Stem Cell Research

ORGANIZER, NATIONAL AND INTERNATIONAL MEETINGS

1990	Co-organizer with M. Karin, FASEB Meeting on Regulation of Tissue-Specific Gene Expression
1991	Co-organizer with A. Kelly, Keystone Symposium on Gene Expression in Neuromuscular Development
1995	President/Co-organizer with N. Rosenthal, 54th Annual Meeting of the American Society for Developmental Biology on Genes, Development and Cancer
1997	Co-organizer with J. Wilson, Keystone Symposium on Molecular and Cellular Biology of Gene Therapy
1999	Organizer, First Gene Therapy Symposium at Stanford on Gene Therapy: Prospects for the Next Decade
	Co-Organizer, French Rhône-Poulenc Rohrer/Stanford Workshop on Gene Therapy
2001	Co-organizer with W. Mobley and A. Garber, First Interdisciplinary Aging Symposium at Stanford on Aging: Biology, Disease and Economics
2004	President/Organizer, 13th International Society of Differentiation Meeting, Hawaii

2006	Co-organizer with Z. Hall and C. Laurencian, Annual Meeting of the Institute of Medicine on Stem Cells and Tissue Engineering
2011	Co-organizer with N. Rosenthal, Gordon Conference on Myogenesis
2012	Co-organizer with J. Gurdon and S. Hennikoff, Company of Biologists Workshop on Epigenetic Memory, Wiston Park Stately Home, England
2020	Co-organizer with N. Rosenthal, Company of Biologists Workshop, Inflammaging and regeneration: pain or partnership? Wiston Park Stately Home, England
2022	Co-organizer with Nicole LeDouarin and Elaine Fuchs, Symposium on Stem Cell and Organoid Development, Pontifical Academy of Sciences, the Vatican in Italy

SELECTED PUBLIC SERVICE AND ADVISORY ACTIVITIES

1981–1982	Reproductive Outcome Research for Medfly Health Advisory Committee, State of California
1985–1986	American Society for Cell Biology Nominating Committee
1987, 1988	NIH Molecular Cytology Study Section
1989	NICHHD/NIH Five-Year Planning Committee, Genetics & Teratology Branch
1990, 2004	American Society for Cell Biology Program Committee
1991–1992	American Heart Association Basic Science Council Executive Committee
1995	NIH (RAC) Oversight Committee of Gene Therapy (created by Harold Varmus)
1996	American Society for Biochemistry and Molecular Biology Nominating Committee Chair
1996–2000	NIH National Institute on Aging National Advisory Council
1997–2002	Stanford/Aventis Inc. $5 Million Innovative Grant Agreement Initiator and Liaison
1998–1999	NIH National Institute on Aging Task Force on Training Head
1998–2002	American Society of Gene Therapy Board of Directors
1999	American Society for Cell Biology Joint Steering Committee on Public Policy
2000	American Society for Cell Biology Congressional Liaison Committee for Public Policy
2000	8th Meeting of the European Society of Gene Therapy (ESGT) Stockholm, Sweden on Gene Therapy International Scientific Advisory Committee
2000	American Society of Gene Therapy Committee for Annual Meeting on Neuromuscular Disorders Scientific Chair
2000–2001	National Academy of Medicine (IOM) Section 02 Vice Chair Membership Committee
2001	American Heart Association Council on Basic Cardiovascular Sciences Fellow
2001, 2002	American Academy of Arts and Sciences Class II Biological Sciences Membership Committee
2001–2003	Conseil Stratégique de l'Association Française contre les Myopathies (AFM) Scientific Planning Committee Member
2002–2003	National Academy of Medicine (IOM) Section 02 Membership Committee Chair
2002–2004	American Society for Cell Biology Council
2003	International Society for Stem Cell Research (ISSCR) Education Subcommittee
2004	National Academy of Medicine (IOM) Membership Committee,
2004	National Academy of Medicine (IOM) Working Group on reorganization of sections
2004–2009	National Academy of Medicine (IOM) Council Member
2005	National Academy of Medicine (IOM) Council Nominating Committee
2008–present	Nemaline Myopathy Foundation Scientific Advisory Board member
2009–2010	NIH Peer Review Advisory Committee (PRAC)
2009–2014	Ellison Medical Foundation Scientific Advisory Board
2010–2012	Helmsley Trust Scientific Advisory Board
2011–2017	Pew Scholars Advisory Committee
2013	Pontifical Academy of Sciences Workshop on "New Developments in Stem Cell Research"
2013–present	Child Health Research Institute at Stanford
2015–2023	American Academy of Arts and Sciences Council member
2019, 2023	International Society for Stem Cell Research (ISSCR) Annual Meeting Program Committee
2022–2025	International Society for Stem Cell Research (ISSCR) Board of Directors
2023–2025	International Society of Regenerative Biology Board

PATENTS ISSUED (9 US # International)

1. Detection of Molecular Interactions by Reporter Subunit Complementation. Inventors: Blau, Helen M; Mohler, William A.; Rossi, Fabio. Patent Number(s): 980524 (EPO, France, United Kingdom) 2285426 (Canada) 7223537 (USA) 69838748.1 (Germany). Issued 2007.

2. Detection of Molecular Interactions by Beta-lactamase Reporter Fragment Complementation. Inventors: Balint, Robert F.; Blau, Helen M; Her, Jeng-Horng; Wehrman, Tom S. Patent Number(s): 8148110 (USA). Issued 2012.

3. Detection of Protein Translocation by Beta-galactosidase Reporter Fragment Complementation. Inventors: Blau, Helen M; Wehrman, Tom S. Patent Number(s): 1766095 (EPO, United Kingdom, Germany, France, Switzerland) 2400030 (France, United Kingdom, Switzerland, EPO) 8586294 (USA) 8679832 (USA). Issued 2013.

4. Detection of Sub-Cellular Compartment Localization of a Molecule Using a Reduced Affinity Enzyme Complementation Reporter System. Inventors: Blau, Helen M; Hammer, Mark; Wehrman, Tom S. Patent Number(s): 2099925 (United Kingdom, EPO, France, Germany, Sweden, Switzerland) 2662507 (Canada) 8426138 (USA). Issued 2013.

5. Detection of Molecular Interactions Using a Reduced Affinity Enzyme Complementation Reporter System. Inventors: Blau, Helen M; Wehrman, Tom S. Patent Number(s): 2645663 (Canada) 5303448 (Japan) 8541175 (USA) 2007225195 (Australia) ZL200780017417.7 (China). Issued 2013.

6. Compositions and Methods for Muscle Regeneration Using Prostaglandin E2. Inventors: Blau, Helen M; Ho, Tri Van Andrew; Palla Cachorro, Adelaida. Patent Number(s): 9918994 (USA) 10449205 (USA) 2017225999 (Australia). Issued 2018.

7. Compounds, Compositions, Methods, and Kits Relating to Telomere Extension. Inventors: Blau, Helen M; Cooke, John P.; Ramunas, John A; Yakubov, Eduard. Patent Number(s): 2766120 (Russia) 2959005 (EPO, Portugal, Romania, Serbia, Spain, Sweden, Turkey, Poland, Norway, Italy, Hungary, Greece, Finland, Czech Republic, Croatia, Bulgaria, United Kingdom, Netherlands, Switzerland, Slovenia, Monaco, Malta, Luxembourg, Lithuania, Latvia, Ireland, Germany, France, Denmark, Cyprus, Belgium, Albania, Austria) 7103653 (Japan) 10525075 (USA) 11007210 (USA). Issued 2022.

8. Compositions and Methods for Preventing or Treating Muscle Conditions. Inventors: Blau, Helen M; Ho, Tri Van Andrew; Palla Cachorro, Adelaida. Patent Number(s): GB2578539 (United Kingdom). Issued 2022. Patent Number 11,738,031 (USA) Issued 2023

9. Identification of Telomere Length as a Diagnostic Biomarker for Heritable Cardiomyopathies. Inventors: Blau, Helen M; Chang, Alex Chia Yu. Patent Number(s): 11597976 (USA). Issued 2023.

SELECTED CONSULTING TO BIOTECHNOLOGY AND PHARMACEUTICAL COMPANIES

ABI/Applied Biosystems	Didimi (founder)	Novartis
ALZA	DiscoveRx	Rejuvenation Technologies (founder)
Anagenesis	Eli Lilly	Rigel
Arteriocyte	Epirium	Rhone Poulenc Rohrer
Aventis	Gencell	Somatix/Hanna
Cell Genesys	Merck	Transkaryotics
	Myoforte (founder)	Tropix

EDITORIAL BOARDS

1987 – 1994	The Journal of Cell Biology
1987 – present	Experimental Cell Research
1990 – 1994	Neuromuscular Disorders
1991 – 1994	Molecular and Cellular Biology
1992 – 1995	Molecular and Cellular Differentiation
1995 – 1998	Developmental Biology, consulting editor
1994 – 2001	Journal of Molecular Medicine
1995 – 2002	Advisory Board, Biochimica et Biophysica Acta Reviews on Cancer
2000 – 2004	Molecular Therapy
2000 – 2006	Molecular Interventions
1988 – 2002	Somatic Cell and Molecular Genetics
1994 – present	Genes to Cells (Editor)
2005 – 2018	FASEB Journal (Associate Editor)
2005 – 2017	Differentiation (Senior Editor)
2010 – 2018	Integrative Biology (iBiology)
2011 – 2021	Current Opinion in Genetics and Development
2013 – present	Stem Cell Reports
2015 – present	Nature Partner Journal Regenerative Medicine (Associate Editor)
2021 – present	Proceedings of the National Academies of Sciences of the USA (PNAS)

PROFESSIONAL SOCIETIES

American Academy of Arts and Sciences
American Association for the Advancement of Science
American Association for Cancer Research
American Heart Association
American Society for Cell Biology
American Society for Developmental Biology
American Society of Gene Therapy
American Society of Human Genetics
Federation of American Societies for Experimental Biology
International Society of Differentiation
International Society for Stem Cell Research
Materials Research Society
The New York Academy of Sciences

TEACHING

Harvard University

1969–74	Teaching Fellow, Harvard University: courses in "Introductory Biology," "Cell Biology," "Human Genetics"
1972–74	Resident Tutor in Biology, Adams House, Harvard University
1973–74	"Human Genetics" (undergraduate level seminar course taught by HMB at Harvard University)

Stanford University

1978–2001	Pharmacology 201, 202: "Pharmacology for Medical Students" (taught by entire Pharmacology Department faculty; lectures by HMB on anticancer agents, anticoagulants, pharmacogenetics, teratogenesis, gout, chemical contraception, and gene therapy)
1980	Pharmacology 203: "Pharmacology for Medical Students" (course coordinator)
1980–present	Guest lecturer in Department of Biology: on "Regulatory Biochemistry in Higher Eukaryotes" (248) and on "Organismal Development" (108); in Department of Genetics: on "Human Genetics" (202) and "Somatic Cell Genetics" (212); in Department of Cell Biology: on "Cell Motility" (225); in Department of Molecular and Cellular Physiology: on "Pathophysiology" (206); in Cancer Biology Program: on "Signal Transduction Pathways in Development and Cancer" (251) and "Gene Regulation and Cell Differentiation" (252); and in the Human Biology Program: on "Human Biology"
1981	Pharmacology 209: "Developmental Biology: Genetic and Environmental Influences" (graduate level course directed by HMB)
1983–2014	Advisor and Associate Program Director, T32 Developmental and Neonatal Biology Training Program
1984, 1987 & 1990	Pharmacology 231: "Regulation of Gene Expression During Differentiation and Development" (graduate level course directed by HMB)
1994-95	Pharmacology 240: Course and Seminar Series on "Drug Discovery", Stanford University (graduate level course, lecture by HMB on gene therapy)
1998, 2000, & 2001	Pharmacology 231: Course and Seminar Series on "Stem Cells and Gene Therapy" (graduate level course co-directed by HMB and Garry Nolan)
2000	Pharmacology 241: Course and Seminar Series on "Gene Therapy for Diseases of Aging" (graduate level course co-directed by HMB, Ellen Porzig and Garry Nolan)
2001	Bio 2: Sophomore Lecture Series (faculty members lecture to undergraduates to inform them about careers in sciences and areas of research)
2003	Microbiology & Immunology 231: Course and Seminar Series on "Stem Cells and Gene Therapy" (graduate level course co-directed by HMB and Garry Nolan)
2004	Microbiology & Immunology 210: "Pathogenesis of Bacteria, Viruses and Eukaryotic Parasites" (taught by Microbiology and Immunology Department faculty; lecture by HMB on retroviruses in gene therapy)
2005–present	**Co-organizer, ReMS (Regenerative Medicine and Stem Cells @Stanford) Seminar Series:** interdisciplinary seminar and discussion course to create a forum for Stanford students and researchers to learn about what is going on in regenerative medicine. Speakers alternate between internationally acclaimed outside experts in the field of regenerative medicine and stem cell biology and professors and trainees at Stanford.
2010	Guest lecturer in BioE361/MatSci381: "Biomaterials in Regenerative Medicine" (advanced seminar-level graduate course); ChemE Faculty Research Talks: (first year graduate seminar course); Immunology 185: "Brain and Immune System (graduate science writing panel lecture course); USC Pathology 575: "Cellular Homeostasis" (graduate/ medical student lecture series at University of Southern California)
2011	Guest lecturer in Path/Dev Bio296: "Dedifferentiation and Regeneration in Limbs (graduate/medical student course)

2012	Guest lecturer in ENGR 50M: “Introductions to Materials Science, Biomaterials Emphasis” (undergraduate course)
2015	Guest lecturer in Bio109B: “The Human Genome and Disease: Genetic Diversity and Personalize Medicine” (graduate level course)
2016, 2017	Guest lecturer in StemRem 202: “Stem Cells and Transitional Medicine” (undergraduate, graduate, and medical student seminar)
Ongoing	T32 Advisory Board Membership: Stanford Cancer Imaging Training Program (SCIT), Training Grant in Medical Genetics, Stanford Molecular Imaging Scholars Program (SMIS), M&I (Molecular Basis of Host Parasite Interaction) Training Grant, Pediatric Nonmalignant Hematology and Stem Cell Biology Training Grant, Mechanobiology Training Grant, Tumor Biology Training Grant

TRAINEES

15+ graduate students and 60+ postdoctoral trainees mentored, the vast majority went on to scientific positions in Academia and Biotech.

Postdoctoral Fellows, Instructors, and Scientists

Mohsen Afshar	Susan Guttman	Jason H. Pomerantz
Ozan Alkan	Alex Hajnal	Ermelinda Porpiglia
Andrea Banfi	Andrew TV Ho	John Ramunas
Nidhi Bhutani	Andreas Hofmann	Thomas Rando
Volker Blank	Simon Hughes	Farzan Rashinejad
Jennifer Brady	Tze Kin Ip	Meenakshi Ravichandran
Moritz Brandt	Clas Johansson	Daniel Rohrer
David Burns	Roger Kaspar	Fabio Rossi
Alex Chia Yu Chang	Gilmor Keshet	Alessandra Sacco
Stephane Corbel	Sungsoo Lee	Beat Schaefer
Benjamin Cosgrove	Yanling Liao	Laura Silberman
Erin Coyne	Matthias Lütolf	Silpa Sithram
Georges von Degenfeld	Thach Mai	Albert Spicher
Jyotsna Dhawan	Christopher Madl	Srihari Sampath
Angeles Estelles	Glenn Markov	Matthew Springer
Asuka Eguchi	Mary Beth McCormick	Ian Stancil
Fadi El Rami	Foteini Mourkioti	Norris Turner
Penney Gilbert	Barbara Munz	Yu Xin "Will" Wang
Oivin Guicherit	Adelaida Palla	Gerhard Weber
Emmanuelle Gussoni	Gaspard Pardon	Iwei Yeh

Graduate Students

Sarah Ancel	Young-Ping Huang	Kostandin Pajcini
Bruce Blakely	Irving Kaplan	Adam Palermo
William Blanco-Bose	Stephanie Kayser	Grace Pavlath
Tim Brazelton	David Klang	Lindsey Seitz
Choy Pik Chiu	Mark LaBarge	George Sen
Mildred Cho	Nora Leonardi	Adrien de Tonnac
Karoly Fatyol	Joel Levis	Laura Stankiewicz
Iris Flaig	Klas Magnusson	Matteo Togninalli
Jasmin Garoussian	Dennis Meredith	Cecilia Webster
Edna Hardeman	William Mohler	Tom Wehrman
Karen Havenstrite	Jayson Morgan	Gwendoline Wicki
Russell Haynes	Clare Ozawa	Nora Yucel

SELECTED HONORARY LECTURESHIPS

2004 XIIIth International Vascular Biology Meeting, Toronto, Canada
2nd Annual International Society for Stem Cell Research Meeting, Boston, MA
13th International Society of Differentiation Conference, Honolulu, HI
Allergan Foundation Lectures in Modern Biology and the Howard A. Schneiderman Memorial Bioethics Lecture Series, University of California, Irvine

2005 Case Western Research University School of Medicine, Cleveland, OH
Inaugural Gurdon Institute Symposium, Wellcome Trust / Gurdon Institute, Cambridge, UK
Summer Research Conference: Skeletal Muscle Satellite and Stem Cells, FASEB, Tucson, AZ
Colloquium on the Biology of Aging, Ellison Medical Foundation, Woods Hole, MA
Heinz Herrmann Symposium: Reprogramming Cell Fate, ASCB, San Francisco, CA

2006 Stem Cells and Aging Meeting, National Institute on Aging, Potomac, MD
Frontiers in Myogenesis, Society for Muscle Biology, Pine Mountain, GA
Stem Cells and Cancer, German Cancer Research Center, Heidelberg, Germany
Embryonic and Somatic Stem Cells, German Research Foundation and the German Academy of Sciences Leopoldina, Dresden, Germany
EMBO: Molecular and Cellular Basis of Regeneration & Tissue Repair, Ascona, Switzerland
Stem Cells for Brain in annual meeting: The Role of Stress in Psychiatric and Medical Disorders, The American College of Psychiatrists, San Juan, Puerto Rico
Colloquium on the Biology of Aging, Woods Hole, MA
Regenerative Cell Therapy, International Symposium of the French Academy of Sciences, Paris, France

2007 Keystone Symposium on Stem Cell Interactions with their Microenvironmental Niche, Keystone, CO
Gordon Research Conference on Myogenesis Conference, Il Ciocco, Italy
Swiss Institute for Experimental Cancer Research in Lausanne, Switzerland
Friedrich Miescher Institut Student Seminar in Basel, Switzerland
Presidential Symposium on Stem Cells & Aging, The Gerontological Society of America, San Francisco, CA
Minisymposium: Stem Cell Niches, 47th Annual American Society of Cell Biology, Washington, DC
Modeling Stem Cells, Abcam, Punta Cana, Dominican Republic

2008 Keystone Signaling Pathways in Cancer and Development Conference, Steamboat Springs, CO
Keynote Speaker, 8th World Biomaterials Congress, Amsterdam, The Netherlands
Bio-Engineering: Artificial Scaffolds, International Society for Stem Cell Research, Philadelphia, PA
EMBO Myogenesis Conference, Barcelona, Spain
Stem Cells and Cancer, 5th International Heinrich F. C Behr Symposium, Heidelberg, Germany
Langer Symposium, Materials Research Society Fall Meeting, Boston, MA
Advanced Therapeutics Stem Cell Seminar, University of Massachusetts
American Society for Cell Biology 48th Annual Meeting, San Francisco, CA

2009 Black Family Stem Cell Institute & Dept. of Regenerative & Developmental Biology, Mount Sinai School of Medicine, NY
Frontiers in Myogenesis and Skeletal Muscle Satellite and Stem Cell Meeting, Columbia University, NY
Keystone Symposium on Stem Cell Niche Interactions, Whistler, British Columbia
Telethon Institute of Genetics and Medicine, Naples, Italy
University of California, Irvine Stem Cell Symposium
3rd International Symposium on Stem Cells, Development, and Regulation, Amsterdam
NHLBI Symposium on Cardiovascular Regenerative Medicine, NIH

2010 Keystone Symposium on Stem Cell Differentiation and Dedifferentiation, Keystone, CO
Cellular Homeostasis Lecture Series, University of Southern California
Ottawa Hospital Research Institute Seminar Series, University of Ottawa, Canada

Keynote Lecturer, Tissue Engineering International and Regenerative Medicine Society (TERMIS-EU), Galway, Ireland
Keynote Lecturer, Stem Cell: New Developments and Prospects, Institut de France Academie des Sciences (French Academy of Sciences), Paris, France
Karolinska Institute/Royal Swedish Academy of Sciences, Stockholm, Sweden
Marcus Wallenberg Symposium: International AID Workshop, from Immune Diversification to Cancer, Stockholm, Sweden
Symposium on Cellular Reprogramming, University of Washington
FASEB Summer Conference on Skeletal Muscle Satellite and Stem Cells, Carefree, AZ
6th Heinrich F.C. Behr International Symposium and 3rd International Conference on Stem Cells and Cancer, Heidelberg, Germany

2011 Keynote Speaker, Chromatin, Replication and Chromosomal Stability Conference, Stockholm, Sweden
AACR Irving Weinstein Distinguished Lecturer and Innovations in Science Awardee, AACR Annual Meeting, Florida
6th Annual Wisconsin Stem Cell Symposium, U. Wisconsin, Madison, WI
7th Annual Symposium on Stem Cells: Basic Biology to Translational Medicine, Los Angeles, CA
Distinguished Lectureship, Wistar Institute/University of Pennsylvania
Center of Regenerative Medicine, Harvard University
50th Anniversary Symposium on Jacob and Monod's Operon Model, Institut Pasteur, Paris, France
Yale Stem Cell Center Seminar, Yale University
24th American Chemical Society Meeting, Anaheim, CA
Boston University Center for Regenerative Medicine Seminar Series
2nd EMBO Conference on The Molecular and Cellular Mechanisms Regulating Skeletal Muscle Development and Regeneration, Weisbaden, Germany
3rd Elise Kröner-Fresenius Symposium on Molecular Mechanisms of Stem Cell Aging, Reisenberg Castle, Germany
Keynote Speaker, Organisation for Economic Co-operation and Development (OECD) on Biotechnology International Forum, Paris, France
50th Anniversary Symposium on Jacob and Monod's Operon Model (in honor of Francois Jacob), Institut Pasteur, Paris, France

2012 Institut de France Academie des Sciences (French Academy of Science), Paris, France
Medical Scientist Lecture Series, University of California, Irvine
NYSCF Annual Translational Stem Cell Research Conference, NY
Till & McCulloch Meetings, Montreal, Canada
Society for Muscle Biology, Frontiers in Myogenesis: Development, Function, and Repair of the
Muscle Cell, NY
Pontifical Academy of Sciences Symposium, New Developments in Stem Cell Research: induced
Pluripotent Stem Cells and their possible Applications in Medicine, the Vatican, Rome
Distinguished Speaker, University of Washington on Visions of the Future Seminar, Seattle, WA
ISSCR and the Roddenberry Center for Stem Cell Biology, International Symposium on Cellular Reprogramming, Gladstone Institute, San Francisco, CA
Keynote Speaker, Lorentz Center Workshop, Organs on Chips: Human Diseases Models, Leiden, Netherlands
EMBL Conference, Stem Cells in Cancer and Regenerative Medicine, Heidelberg, Germany
Public Lecture with Sir John Gurdon, introduced by Tim Hunt on Growing a human body part: exploring the frontiers of regenerative medicine at the Royal Institution, London, England

2013 Gordon Conference on Myogenesis, Il Ciocco, Italy
Keynote Speaker, Third Annual Charles J. Epstein M.D. Lecture Series, Buck Institute for Research on Aging, Novato, CA

University of Toronto Science Frontiers, Stem Cells: From Hype to Hope? Toronto, Canada
Keynote Lecture, Fifth Annual Meeting, Ben Gurion University of the Negev, Israel
Weizmann Institute of Science, Women Health Research Center Speaker, Rehovot, Israel
Nuclear Reprogramming and Cancer Genome, Oxford, England
Colloquium on Reprogramming Stem Cell Fate and Function, MIT
President's Lecture at Sanford-Burnham Medical Research Institute, San Diego, CA
60th Anniversary Celebration of the Discovery of DNA, Cold Spring Harbor, NY

2014 Salk Institute, San Diego, CA
Penn Genome Frontiers Institute, Single Cell Bio Symposium, Philadelphia, PA
Keystone Symposia on Molecular and Cellular Biology, Squaw Creek, CA
UCLA School of Medicine IMED Seminar Series, Los Angeles, CA
Commencement Speaker, USC Keck School of Medicine, Los Angeles, CA
College de France Reprogramming Meeting, Paris, France
Ho-Am Forum on Medicine, Seoul, South Korea
Cancer Research Meeting, Asilomar, CA
FASEB Skeletal Muscle Satellite and Stem Cells, Steamboat Springs, CO
Ellison Colloquium on the Biology of Aging, Woods Hole, MA
Thomas Hunt Morgan Lecturer, University of Kentucky, Lexington, KY
ASCB Annual Meeting, Philadelphia, PA

2015 Project Prometheus Mentor, Li Ka Shing Foundation and Chinese Ministry of Education, Life Science & Technology Workshop, Shantou University, China
Stem Cell Institute, University of Massachusetts, Worchester, MA
Ernest Everett Just Symposium, University of South Carolina Medical School
University of Minnesota Stem Cell Institute
VII Elise Kröner-Fresenius Symposium on Adult Stem Cells in Aging, Diseases and Cancer, The Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Italy
Cold Springs Harbor Laboratory
Institute of Bioengineering, École Polytechnique Fédérale de Lausanne, Switzerland
Gordon Research Conference on Myogenesis, Renaissance Tuscany, Il Ciocco, Italy
Rejuvenation Biotechnology 2015, San Francisco, CA

2016 UCI Medical Scientist Training Program Distinguished Lecture Series, Irvine, CA
Batsheva de Rothschild Workshop on Skeletal and Cardiac Myogenesis, Rehovot, Israel
USC Emerging Innovations in Dev and Stem Cell Biology, Keck School of Medicine, LA, CA
Plasticity of Cellular Identity, Fondation des Treilles, Les Arcs, France
UCSF Developmental and Stem Cell Biology Grad Program Annual Symposium, San Francisco
Society for Developmental Biology, Molecular Mechanisms Modulating Skeletal Muscle Development and Homeostasis in Health and Disease, Asilomar, CA
International Society for Stem Cell Research Annual Meeting, San Francisco, CA
Keynote, EMBO Molecular and Cellular Basis of Regeneration and Tissue Repair, Paestum, Italy
Yale Stem Cell Center 10th Anniversary Symposium, New Haven, CT
NIH Common Fund: 2016 High-Risk, High-Reward Research Symposium, Bethesda, MD

2017 Gordon Research Conference on Stem Cells and Cancer, Il Ciocco, Italy
University of Massachusetts Medical School, Worcester, MA
National Academy of Sciences (Induction), Washington, DC
Telomeres & Telomerase, Cold Spring Harbor, NY
Gordon Research Conference on Myogenesis, Il Ciocco, Italy
International Society for Stem Cell Research (ISSCR) Annual Meeting, Boston, MA
Visiting Professor Seminar Series, University of Illinois, Chicago, IL
Celebrating Four Decades of Research on Self-Assembling Materials, Evanston, IL
Regeneration meeting, Milano, Italy

2018 Distinguished Lectureship in Cancer Biology, McGovern Medical School at University ofTexas MD Anderson Cancer Center, Houston, TX

Techcracker Conference, Tokyo, Japan
National Academy of Inventors (Induction), Washington DC
Stanford Cardiovascular Medicine Celebrating a Legacy of Firsts, Stanford, CA
Stanford Single Ventricle Scientific Summit, Stanford, CA
Ray A. and Robert L. Kroc Lectureship on Diabetes, Joslin Diabetes Center, Boston, MA
John Grace Lecture, CIG Symposium 2018, University of Lausanne, Switzerland
FASEB Skeletal Muscle Satellite Cells and Regeneration, Steamboat Springs, CO
Gurdon Institute Lecture, University of Cambridge, Cambridge, UK
Honorary Doctorate, University of York, York, UK
Cell and Gene Meeting on the Mesa, UC San Diego Stem Cell Program, La Jolla, CA
American Philosophical Society (Induction), Philadelphia, PA
Pontifical Academy of Sciences (Induction), Vatican City, Italy

2019 International Society for Stem Cell Research International Symposium, Amsterdam, Netherlands
The New York Academy of Sciences, Adult Stem Cells and Regenerative Medicine Symposium
American Institute for Medical and Biological Engineering (Induction), Washington, DC
Marabou Trust and Karolinska Insitutet Nutrition and Stem Cell Integrity in Ageing, Stockholm
First France-USA Stem Cell Symposium, Los Angeles, CA
AHA Basic Cardiovascular Sciences Meeting, Boston, MA
Geroscience Summit: Targeting Chronic Diseases Through Geroscience, NIH

2020 Biogen and SMA Foundation Axon & Muscle Health, New Orleans, LA
New York Stem Cell Virtual Conference
2020 Till & McCulloch Meetings, Stem Cell Network, Virtual

2021 International Muscle Science Talk Series, Virtual
Stanford Medicine Women's Health Event, Virtual
Stanford Drug Discovery Symposium, Virtual
Association for Vision and Research in Ophthalmology (ARVO), Virtual Keynote Address
Mayo Clinic, Regenerative Medicine & Surgery Symposium, Virtual
UCSD Bioengineering Speaker Series, Virtual
The American Society for Bone and Mineral Research, Virtual (ASBMR 2021 Annual Meeting)
Biogen "Building Muscle" Seminar Series, Virtual
Cornell University, Meinig School of Bioengineering, Muscle Science Series, Virtual
National Academies of Sciences, Forum on Regenerative Medicine Fall Workshop 2021, Virtual
University of Georgia, Center for Molecular Medicine, Virtual

2022 International Society for Stem Cell Research Symposium, Shanghai, Virtual
Johns Hopkins Institute for Stem Cell Engineering Seminar, Virtual
Stanford University, Translational Research & Applied Medicine (TRAM), Virtual
The Pontifical Academy of Sciences, Stem Cells & Their Promise for Regenerative Medicine, Vatican City, Italy
FASEB, Skeletal Muscle Stem Cells & Regeneration Conf, Concluding Keynote, New Orleans
Myogenesis – from Forces to Structure and Treatment, Foundation des Treilles, France
The Pontifical Academy of Sciences Plenary Session 2022, Basic Science for Human Development, Peace, and Planetary Health, Vatican City, Italy
Frontiers in Cardiovascular Medicine Seminar Series (CVI), Stanford, CA
Columbia Stem Cell Initiative (CSCI) 2022-23, Columbia University, New York
Cell Symposia, Advances in Therapeutic Applications of Stem Cells, Cedars-Sinai, Los Angeles

2023 NIH Director's Wednesday Afternoon Lecture (remote), Bethesda, mD
Wu Tsai Human Performance Alliance Symposium, Stanford, CA

Stanford Drug Discovery Symposium, Stanford, CA
7th Annual Frontiers in Diabetes Research Symposium, Stanford, CA
Synthetic Biology for Sustainability symposium, Stanford, CA
Presidential Symposium, ISSCR 2023 Annual Meeting, Boston, MA
Keynote, Ottawa International Conference on Neuromuscular Disease and Biology, Ottawa, CA
Aegean 5th International Conference on Stem Cells, Heraklion, Crete
2023 Frontiers in Myogenesis Conference, Sao Paolo, Brazil
University of Toronto, Medicine by Design, Toronto, CA

PUBLICATIONS (>25% in *Cell, Science or Nature* Journals)

1. Kafatos FC, Regier JC, Mazur GD, Nadel MR, **Blau HM**, Petri WH, Wyman AR, Gelinas RE, Moore PB, Paul M, Efstratiadis A, Vournakis JN, Goldsmith MR, Hunsley JR, Baker B, Nardi J, Koehler M. The eggshell of insects: differentiation-specific proteins and the control of their synthesis and accumulation during development. ***Results Probl Cell Differ.*** 1977;8:45–145. PMID: 335468

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11. Gunning P, Ponte P, **Blau H**, Kedes L. alpha-skeletal and alpha-cardiac actin genes are coexpressed in adult human skeletal muscle and heart. ***Mol Cell Biol.*** 1983 Nov;3(11):1985-95. PMCID: PMC370066.

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15. **Blau HM**, Webster C, Pavlath GK, Chiu CP. Evidence for defective myoblasts in Duchenne muscular dystrophy. ***Adv Exp Med Biol.*** 1985;182:85–110. PMID: 4003170

16. Chiu CP, **Blau HM**. 5-Azacytidine permits gene activation in a previously noninducible cell type. ***Cell*** 1985 Feb;40(2):417–424. PMID: 2578323

17. **Blau HM**, Pavlath GK, Hardeman EC, Chiu CP, Silberstein L, Webster SG, Miller SC, Webster C. Plasticity of the differentiated state. ***Science*** 1985 Nov 15;230(4727):758–766. PMID: 2414846

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