

**HELEN M. BLAU**

**Donald E. and Delia B. Baxter Foundation Professor**

**CURRICULUM VITAE**

**ADDRESS**

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**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  
2024 Austrian Academy of Sciences  
2024 The Royal Society

**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, 13<sup>th</sup> 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, 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 NICHD/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  
 2020 BJC Investigator Program, Washington University, St. Louis, MO, External Scientific Advisor  
 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

### **SELECTED CONSULTING TO BIOTECHNOLOGY AND PHARMACEUTICAL COMPANIES**

ABI/Applied Biosystems	Didimi (founder)	Novartis
ALZA	DiscoverRx	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 Pharmacology 231: “Regulation of Gene Expression During Differentiation and Development”
- & 1990 (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**

Graduate students and postdoctoral trainees, the vast majority went on to scientific positions in Academia and Biotech.

Mohsen Afshar	Russell Haynes	Grace Pavlath
Ozan Alkan	Andrew TV Ho	Jason H. Pomerantz
Sarah Ancel	Andreas Hofmann	Ermelinda Porpiglia
Andrea Banfi	Young-Ping Huang	John Ramunas
Nidhi Bhutani	Simon Hughes	Thomas Rando
Bruce Blakely	Tze Kin Ip	Farzan Rashinejad
William Blanco-Bose	Clas Johansson	Meenakshi Ravichandran
Volker Blank	Irving Kaplan	Daniel Rohrer
Jennifer Brady	Roger Kaspar	Fabio Rossi
Moritz Brandt	Stephanie Kayser	Alessandra Sacco
Tim Brazelton	Gilmor Keshet	Beat Schaefer
David Burns	David Klang	Lindsey Seitz
Alex Chia Yu Chang	Mark LaBarge	George Sen
Choy Pik Chiu	Sungsoo Lee	Laura Silberman
Mildred Cho	Nora Leonardi	Silpa Sithram
Stephane Corbel	Joel Levis	Albert Spicher
Benjamin Cosgrove	Yanling Liao	Srihari Sampath
Erin Coyne	Matthias Lütolf	Matthew Springer
Georges von Degenfeld	Klas Magnusson	Ian Stancil
Jyotsna Dhawan	Thach Mai	Laura Stankiewicz
Angeles Estelles	Christopher Madl	Matteo Togninalli
Asuka Eguchi	Glenn Markov	Adrien de Tonnac
Fadi El Rami	Mary Beth McCormick	Norris Turner
Karoly Fatyol	Dennis Meredith	Yu Xin "Will" Wang
Iris Flaig	William Mohler	Gerhard Weber
Jasmin Garoussian	Jayson Morgan	Cecilia Webster
Penney Gilbert	Foteini Mourkioti	Tom Wehrman
Oivin Guicherit	Barbara Munz	Gwendoline Wicki
Emmanuelle Gussoni	Clare Ozawa	Iwei Yeh
Susan Guttman	Kostandin Pajcini	Nora Yucel
Alex Hajnal	Adam Palermo	
Edna Hardeman	Adelaida Palla	
Karen Havenstrite	Gaspard Pardon	

### **SELECTED HONORARY LECTURESHIPS**

2004	XIIIth International Vascular Biology Meeting, Toronto, Canada
	2 <sup>nd</sup> Annual International Society for Stem Cell Research Meeting, Boston, MA

- 13<sup>th</sup> 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
- 2006 Heinz Herrmann Symposium: Reprogramming Cell Fate, ASCB, San Francisco, CA  
 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, 47<sup>th</sup> Annual American Society of Cell Biology, Washington,  
 DC
- 2008 Modeling Stem Cells, Abcam, Punta Cana, Dominican Republic  
 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  
 3<sup>rd</sup> 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  
 6<sup>th</sup> Heinrich F.C. Behr International Symposium and 3<sup>rd</sup> 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  
 6<sup>th</sup> Annual Wisconsin Stem Cell Symposium, U. Wisconsin, Madison, WI  
 7<sup>th</sup> 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  
 50<sup>th</sup> Anniversary Symposium on Jacob and Monod's Operon Model, Institut Pasteur, Paris, France  
 Yale Stem Cell Center Seminar, Yale University  
 24<sup>th</sup> American Chemical Society Meeting, Anaheim, CA  
 Boston University Center for Regenerative Medicine Seminar Series  
 2<sup>nd</sup> EMBO Conference on The Molecular and Cellular Mechanisms Regulating Skeletal Muscle Development and Regeneration, Weisbaden, Germany  
 3<sup>rd</sup> 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  
 50<sup>th</sup> 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



- 2014 Colloquium on Reprogramming Stem Cell Fate and Function, MIT  
 President's Lecture at Sanford-Burnham Medical Research Institute, San Diego, CA  
 60<sup>th</sup> Anniversary Celebration of the Discovery of DNA, Cold Spring Harbor, NY  
 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, Worcester, 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
- 2017 NIH Common Fund: 2016 High-Risk, High-Reward Research Symposium, Bethesda, MD  
 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  
 of Texas 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
- 2020 Geroscience Summit: Targeting Chronic Diseases Through Geroscience, NIH  
 Biogen and SMA Foundation Axon & Muscle Health, New Orleans, LA  
 New York Stem Cell Virtual Conference
- 2021 2020 Till & McCulloch Meetings, Stem Cell Network, Virtual  
 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
- 2022 University of Georgia, Center for Molecular Medicine, Virtual  
 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 Paulo, Brazil  
University of Toronto, Medicine by Design, Toronto, CA

### **U.S. PATENTS ISSUED**

1. US Patent No. 5,538,722 "Isolation, Growth, Differentiation and Genetic Engineering of Human Muscle Cells": Blau, H., Hughes, S., issued July 23, 1996.
2. US Patent No. 6,342,345 "Detection of Molecular Interactions by Reporter Subunit Complementation": Blau, H., Rossi, F., Mohler, W., issued January 29, 2002.
3. US Patent No. 7,223,537 "Detection of Molecular Interactions by Reporter Subunit Complementation": Blau, H., Rossi, F., Mohler, W., issued May 29, 2007.
4. US Patent No. 8,148,110 "Detection of Molecular Interactions by Beta-Lactamase Reporter Fragment Complementation": Blau, H., Balint, R., Wehrman, T., Her, J-H., issued April 3, 2012.
5. US Patent No. 8,426,138 "Detection of Sub-Cellular Compartment Localization of a Molecule Using a Reduced Affinity Enzyme Complementation Reporter System": Blau, H., Hammer, M., Wehrman, T., issued April 23, 2013.
6. US Patent No. 8,541,175 "Detection of Molecular Interactions Using a Reduced Affinity Enzyme Complementation Reporter System": Wehrman, T., Blau, H., issued September 24, 2013.
7. US Patent No. 8,586,294 "Detection of Protein Translocation by Beta-Galactosidase Reporter Fragment Complementation": Blau, H., Wehrman, T., issued November 19, 2013.
8. US Patent No. 8,679,832 "Detection of Protein Translocation by Beta-Galactosidase Reporter Fragment Complementation": Blau, H., Wehrman, T., issued March 25, 2014.
9. US Patent No. 8,852,579 "Methods of Inducing Tissue Regeneration": Blau, H., Pajcini, K., Pomerantz, J., issued October 7, 2014.
10. US Patent No. 9,918,994 "Compositions and Methods for Muscle Regeneration Using Prostaglandin E2": Blau, H., Ho, A., Palla, A, issued March 20, 2018.
11. US Patent No. 10,449,205 "Compositions and Methods for Muscle Regeneration Using Prostaglandin E2": Blau, H., Ho, A., Palla, A., issued October 22, 2019.
12. US Patent No. 10,525,075 "Compounds, Compositions, Methods, and Kits Relating to Telomere Extension": Ramunas, J., Yakubov, E., Blau, H., Cooke, J., issued January 7, 2020.
13. US Patent No. 11,007,210 "Compounds, Compositions, Methods, and Kits Relating to Telomere Extension": Ramunas, J., Yakubov, E., Blau, H., Cooke, J., issued May 18, 2021.
14. US Patent No. 11,597,976 "Identification of Telomere Length as a Diagnostic Biomarker for Heritable Cardiomyopathies": Blau, H., Chang, C., issued March 7, 2023.
15. US Patent No. 11,738,031 "Compositions and Methods for Preventing or Treating Muscle Conditions": Blau, H., Palla, A., Ho, A., issued August 29, 2023.

16. US Patent No. 11,872,243 "Compounds, Compositions, Methods and Kits Relating to Telomere Extension": Ramunas, J., Yakubov, E., Blau, H., Cooke, J., issued January 16, 2024.

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