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 4215
Stanford, CA 94305-5175
Telephone: (650) 723-6209 Fax: (650) 736-0080
e-mail: hblau@stanford.edu

Personal Data: Birthplace: London, England
Dual Citizenship: USA & United Kingdom
Languages: French and German

Education:

1969	B.A.	University of York, York, England
1970	M.A.	Harvard University, Cambridge, MA
1975	Ph.D.	Harvard University, Cambridge, MA
2003	Honorary Doctorate	University of Nijmegen, Holland

Professional Experience:

1969 - 1975:	Predoctoral Fellow, Dept. of Biology, Harvard University, Cambridge, MA
1975 - 1978:	Postdoctoral Fellow, Division of Medical Genetics, Departments of Biochemistry and Biophysics, University of California, San Francisco, CA
1978 - 1986:	Assistant Professor, Department of Pharmacology, Stanford University School of Medicine, Stanford, CA
1986 - 1991:	Associate Professor, Department of Pharmacology, Stanford University School of Medicine, Stanford, CA
1991 - 1999:	Professor, Department of Molecular Pharmacology, Stanford University School of Medicine, Stanford, CA
1997 - 2002:	Chair, Department of Molecular Pharmacology, Stanford University School of Medicine, Stanford, CA
1997 - present:	Director, Gene Therapy Technology, Stanford University School of Medicine, Stanford, CA
1999 - present:	Donald E. and Delia B. Baxter Foundation Professor, Stanford University School of Medicine, Stanford, CA
2002 – present:	Director, Baxter Laboratory for Stem Cell Biology, Department of Microbiology and Immunology & Institute for Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, Stanford, CA

Major Honors and Awards:

Basil O'Connor Faculty Fellow (1978-1981)
Mellon Foundation Faculty Fellow (1979-1980)
William M. Hume Faculty Scholar (1981-1984)
Research Career Development Award, National Institutes of Health (1984-1989)
SmithKline and Beecham Junior Faculty Scholar Award (1989-1991)
Fellow, American Association for the Advancement of Science (AAAS) (elected 1991)
U.S. National Academy of Sciences Delegation to The People's Republic of China (1991)
Resident Scholar, Bellagio Study Center of Rockefeller Foundation, Lake Como, Italy (1992)
Senior Career Recognition Award of WICB, American Society of Cell Biology (1992)
President, American Society for Developmental Biology (1994-1995)
MERIT Award, National Institutes of Health (1995-2005)
Nobel Forum Lecture, Karolinska Institute, Stockholm, Sweden (1995)
Yvette Mayent-Rothschild Visiting Professor, Instituts Curie and Pasteur, Paris (5 months, 1995)
Institute of Medicine, National Academy of Sciences (elected 1995)
National Advisory Council, NIH Institute on Aging (1996-2000)
American Academy of Arts and Sciences (elected 1996)
Board of Directors, American Society for Gene Therapy (elected 1999-2002)
FASEB Excellence in Science Award (1999)
Donald E. and Delia B. Baxter Endowed Professorship (1999)
President, International Society of Differentiation (2002-2004)
McKnight Technological Innovations for Neuroscience Award (2001)
Honorary Doctorate, University of Nijmegen, Holland (2003)
Rolf-Sammet-Fonds Visiting Professorship, University of Frankfurt (2003)
400th Annual Pontifical Academy, the Vatican in Rome, plenary talk on stem cells, Modern Biotechnologies Symposium, Audience with Pope John Paul II (2003)
Harvard Board of Overseer's (elected 2004-2010)
Ellison Medical Foundation, Scientific Advisory Board Member (2007-2013)
Fulbright Senior Specialist, Institut Pasteur, Paris (2007)
Helmsley Trust, Scientific Advisory Board Member (2010-present)
AACR-Irving Weinstein Foundation Distinguished Lectureship and Award for Outstanding Innovations in Science (2011)
Fulbright Senior Specialist, Institut Curie, Paris (2011)
Yvette Mayent-Rothschild Visiting Professor, Institut Curie, Paris (3 months, 2011)

Professional Societies:

American Association for the Advancement of Science
American Heart Association
American Society for Biochemistry and Molecular Biology
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 (Member, Board of Directors)
International Society for Stem Cell Research

Materials Research Society
Society for Neuroscience
American Association for Cancer Research

Editorial Boards:

The Journal of Cell Biology (1987-1994)
Experimental Cell Research (1987-2000)
Neuromuscular Disorders (1990-1994)
Molecular and Cellular Biology (1991-1994)
Molecular and Cellular Differentiation (1992-1995)
Developmental Biology, consulting editor (1995-1998)
Journal of Molecular Medicine (1994-2001)
Advisory Board, Biochimica et Biophysica Acta Reviews on Cancer (1995-2002)
Molecular Therapy (2000-2004)
Molecular Interventions (2000-2006)
Somatic Cell and Molecular Genetics (1988-2002)
Genes to Cells (Senior Editor, 1994-present)
Molecular Medicine Today/Trends in Molecular Medicine (1994-present)
FASEB Journal (Associate Editor, 2005- present)
Differentiation (Senior Editor, 2005-present)
Integrative Biology (iBiology) (2010-present)
Frontiers in Molecular and Cellular Oncology (Review Board, 2011-present)
Current Opinion in Genetics and Development (2011-present)

Organizer, National and International Meetings:

Co-organizer with M. Karin, FASEB Meeting on Regulation of Tissue-Specific Gene Expression (1990)
Co-organizer with A. Kelly, Keystone Symposium on Gene Expression in Neuromuscular Development (1991)
President/Co-organizer with N. Rosenthal, 54th Annual Meeting of the American Society for Developmental Biology on Genes, Development and Cancer (1995)
Co-organizer with J. Wilson, Keystone Symposium on Molecular and Cellular Biology of Gene Therapy (1997)
Organizer, First Gene Therapy Symposium at Stanford on Gene Therapy: Prospects for the Next Decade (1999)
International Scientific Advisory Committee, 8th Meeting of the European Society of Gene Therapy (ESGT), Stockholm, Sweden on Gene Therapy (2000)
Co-organizer with W. Mobley and A. Garber, First Interdisciplinary Aging Symposium at Stanford on Aging: Biology, Disease and Economics (2001)
President/Organizer, 13th International Society of Differentiation Meeting, Hawaii (2004)
Co-organizer with Z. Hall and C. Laurencian, Annual Meeting of the Institute of Medicine on Stem Cells and Tissue Engineering (2006)
Co-organizer with N. Rosenthal, Gordon Conference on Myogenesis (2011)
Co-organizer with J. Gurdon and Steve Hennikoff, Company of Biologists Workshop on Epigenetic Memory, Wilton Park Stately Home, England (2012)

Selected Public Service Experience:

Reproductive Outcome Research for Medfly Health Advisory Committee, State of California (1981-1982)
Nominating Committee, American Society for Cell Biology (1985-1986)
NIH Molecular Cytology Study Section (Ad Hoc) (1987, 1988)
NICHHD/NIH Five-Year Planning Committee, Genetics & Teratology Branch Washington, D.C. (1989)
Program Committee, American Society for Cell Biology (1990, 2004)
Executive Committee, Basic Science Council, American Heart Association (1991-1992)
NIH (RAC) Oversight Committee of Gene Therapy (created by Harold Varmus) (1995)
Chair, Nominating Committee, American Society for Biochemistry and Molecular Biology (1996)
National Advisory Council, National Institute on Aging, NIH, Washington, D.C. (1996-2000)
Head, Task Force on Training, National Institute on Aging, Washington, D.C. (1998-1999)
Board of Directors, American Society of Gene Therapy (1998-2001)
Co-Organizer, French Rhône-Poulenc Rorer/Stanford Workshop on Gene Therapy (1999)
American Society for Cell Biology (ASCB), Joint Steering Committee on Public Policy (1999-present)
Member, Congressional Liaison Committee for Public Policy for ASCB (2000-present)
Chair, American Society of Gene Therapy, Scientific Committee for 3rd Annual Meeting on Neuromuscular Disorders (2000); Committee Member (2003)
Fellow, American Heart Association, Council on Basic Cardiovascular Sciences (2001-present)
Institute of Medicine (IOM) of the National Academy of Sciences - Chair, Membership Committee, Section 02 (2002-2003); Vice Chair (2000-2001); Member, IOM Membership Committee (2004); IOM Working Group on Physical and Basic Biomedical Sciences, Reorganization of sections (2004); IOM Council Nominating Committee (2005)
Membership Committee, American Academy of Arts and Sciences, Class II Biological Sciences, Section 2 (2001, 2002)
Scientific Planning Committee Member, Conseil Stratégique de l'Association Française contre les Myopathies (AFM) (2001-2003)
Member, International Society for Stem Cell Research (ISSCR) Education Subcommittee (2003-present)
Member, Scientific Advisory Board, Nemaline Myopathy Foundation (2008-present)
Member, NIH Peer Review Advisory Committee (PRAC) (2009-2010)
Member, Pew Scholars Advisory Committee (2011-2017)

Selected Consulting:

ABI
ALZA
Arteriocyte
Aventis
Cell Genesis
DiscoveRx
Eli Lilly
Gencell
Merck
Novartis
Rigel
Somatix/Hanna
Transkaryotics
Tropix

Selected Honorary Lectureship Invitations (last 5 years):

Plenary Session Chair and Speaker, Stem Cell Interactions with their Microenvironmental Niche, Keystone Symposium, Colorado (2007)

Plenary Speaker, Gordon Research Conference on Myogenesis Conference, Il Ciocco, Italy (2007)
Invited Speaker, Swiss Institute for Experimental Cancer Research in Lausanne, Switzerland (2007)
Invited Speaker, Friedrich Miescher Institut Student Seminar in Basel, Switzerland (2007)
Presidential Symposium Chair and Invited Speaker, Stem Cells & Aging, The Gerontological Society of America, San Francisco, CA (2007)
Plenary Speaker, Minisymposium: Stem Cell Niches, 47th Annual American Society of Cell Biology, Washington, D.C. (2007)
Chair and Invited Speaker, Modeling Stem Cells, Abcam, Punta Cana, Dominican Republic (2007)
Plenary Speaker, Keystone Signaling Pathways in Cancer and Development Conference, Steamboat Springs, Colorado (2008)
Keynote Speaker, 8th World Biomaterials Congress, Amsterdam, The Netherlands (2008)
Co-Chair and Invited Speaker, Bio-Engineering: Artificial Scaffolds, International Society for Stem Cell Research, Philadelphia, Pennsylvania (2008)
Co-Chair and Invited Speaker, EMBO Myogenesis Conference, Barcelona, Spain (2008)
Chair and Plenary Speaker, Stem Cells and Cancer, 5th International Heinrich F. C Behr Symposium, Heidelberg, Germany (2008)
Plenary Speaker, Langer Symposium, Materials Research Society Fall Meeting, Boston, MA (2008)
Invited Speaker, Advanced Therapeutics Stem Cell Seminar, University of Massachusetts (2008)
Plenary Speaker, American Society for Cell Biology 48th Annual Meeting, San Francisco, CA (2008)
Invited Speaker, Black Family Stem Cell Institute & Dept. of Regenerative & Developmental Biology, Mount Sinai School of Medicine, NY (2009)
Plenary Speaker, Frontiers in Myogenesis and Skeletal Muscle Satellite and Stem Cell Meeting, Columbia University, NY (2009)
Plenary Speaker, Keystone Symposium on Stem Cell Niche Interactions, Whistler, British Columbia (2009)
Invited Speaker, Telethon Institute of Genetics and Medicine, Naples, Italy (2009)
Keynote Speaker, University of California, Irvine Stem Cell Symposium (2009)
Plenary Speaker, NHLBI Symposium on Cardiovascular Regenerative Medicine, NIH (2009)
Plenary Speaker, Keystone Symposium on Stem Cell Differentiation and Dedifferentiation, Keystone, CO (2010)
Invited Speaker, Cellular Homeostatis Lecture Series, University of Southern California (2010)
Invited Speaker, Ottawa Hospital Research Institute Seminar Series, University of Ottawa, Canada (2010)
Plenary Lecturer, Tissue Engineering International and Regenerative Medicine Society (TERMIS-EU), Galway, Ireland (2010)
Keynote Lecturer, Stem Cell: New Developments and Prospects, French Academy of Sciences, Paris, France (2010)
Invited Speaker, Karolinska Institute/Royal Swedish Academy of Sciences, Stockholm, Sweden (2010)
Plenary Speaker, Marcus Wallenberg Symposium: International AID Workshop, from Immune Diversification to Cancer, Stockholm, Sweden (2010)
Plenary Speaker, FASEB Summer Conference on Skeletal Muscle Satellite and Stem Cells, Carefree, AZ (2010)
Invited Speaker, 6th Heinrich F.C. Behr International Symposium and 3rd International Conference on Stem Cells and Cancer, Heidelberg, Germany (2010)
AACR Irving Weinstein Distinguished Lecturer and Awardee (2011)
Plenary Speaker, 6th Annual Wisconsin Stem Cell Symposium, U. Wisconsin, Madison (2011)

Distinguished Speaker, Wistar Institute/University of Pennsylvania (2011)
Invited Speaker, Center of Regenerative Medicine, Harvard University (2011)
Invited Speaker, Yale Stem Cell Center Seminar, Yale University (2011)
Plenary Speaker, 24th American Chemical Society Meeting, Anaheim, CA (2011)
Invited Speaker, Boston University Center for Regenerative Medicine Seminar Series (2011)
Keynote Speaker, Chromatin, Replication and Chromosomal Stability Conference, Stockholm, Sweden (2011)
Plenary Speaker, 2nd EMBO Conference on The Molecular and Cellular Mechanisms Regulating Skeletal Muscle Development and Regeneration, Weisbaden, Germany (2011)
Plenary Speaker, 3rd Elise Kröner-Fresenius Symposium on Molecular Mechanisms of Stem Cell Aging, Reisenberg Castle, Germany (2011)
Plenary Speaker, Institut Pasteur Symposium on The Operon Model and its Impact on Modern Molecular Biology, Paris, France (2011)

Current Active Grants:

Source (PI or co-PI)	Title	Total Period
NIH HL100397 (U01) (PI: J. Cooke)	Basic and Translational Research of iPSC-based Hematologic and Vascular Therapies	09/30/09-04/30/2016
NIH AG009521 (R37) (MERIT – 29 years)	Activators of Human Muscle Genes	04/01/86-04/30/2015
NIH AG020961 (R01)	Regulation of Muscle Stem Cell Fate	05/15/02-07/31/2014
NIH HL096113 (R01)	Regulation of Hematopoietic Stem Cell Fate in Bioengineered Niches	04/01/09-02/28/2014
NIH AR062359 (R21) (PI: S. Heilshorn)	3D Bioengineering Strategies to Mimic Human Skeletal Muscle Progenitor Cell Niches	09/01/11-08/31/2013
California Institute of Regenerative Medicine	Molecular Mechanisms of Reprogramming towards Pluripotency	11/01/09-10/31/2012
Stanford Bio-X IIP Pilot Project Funding	Oxytocin Delivery During Pup Ultrasonic Vocalizatins to Rescue Maternal Behavior	01/01/11-12/21/2012
Stanford CVI Grant Cardiovascular Institute	Direct Readout of Age-related Perturbation of Redox Homeostatis using a Novel Method for Metabolic Imaging of the Heart	04/11/11-04/10/2012
LLS Translational Research Grant (Co-PI R. Levy)	Bioengineered Niches to Control Human Follicular Lymphoma Cells	10/01/08-09/30/2011
JDRF 34-2008-623-01 (PI S. Kim)	Directly Observed Development of Purified Human Pancreatic Progenitor Cells	09/01/08-09/30/2011

Patents:

1989: Isolation, growth, differentiation of human muscle cells, U.S. Patent No. 5,538,722 – Stanford Docket S89-054 (issued 7/23/96).

1997: Novel system for detection of protein-protein interactions in mammalian cells, U.S. Patent No. 6,342,345 - Stanford Docket S96-125 (issued 1/29/02).

2005: *In vivo* luminescent detection of beta-galactosidase activity, U.S. Patent No. 7,582,417 – Stanford Docket S05-056 (issued 9/1/09).

2006: GPCR functional assay – Stanford Docket S06-318 (Serial no. 11/964,411 filed 12/26/07).

2006: Reactive microcontact printing of biomolecules on soft matter – Stanford Docket S06-451 (pending).

2007: Detection of molecular interactions using a reduced affinity enzyme complementation reporter system – Stanford Docket S07-028 (pending).

2008: Isolation of muscle stem cells (MuSCs) and their use in degenerative muscle wasting disease, plus non invasive bioluminescence imaging to monitor stem cell behavior *in vivo* – Stanford Docket S08-240 (pending).

2008: System and method for drug regulation – Stanford Docket S08-286 (pending).

2009: Fluid-handling device with peristaltic pumps divided between housing and fluidic network – Stanford Docket S09-092 (pending).

2009: Tissue regeneration from differentiated cells – Stanford Docket S09-306 (pending).

2009: Reciprocating electrolytic pump – Stanford Docket S09-325 (pending).

2009: AID-dependent DNA demethylation for cell reprogramming and generating iPS cells – Stanford Docket S09-354 (pending).

2010: Substrates that mimic properties of the body for optimized cell culture – Stanford Docket S10-231 (pending).

2011: A method for rejuvenation and expansion of tissue-specific stem cells – Stanford Docket S11-102 (Serial no. 61/472,121 filed 4/5/2011).

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

1980 Spring:	Pharmacology 203: "Pharmacology for Medical Students" (course coordinator)
1981 Winter:	Pharmacology 209: "Developmental Biology: Genetic and Environmental Influences" (graduate level course directed by HMB)
1984, 87, 90:	Pharmacology 231: "Regulation of Gene Expression During Differentiation and Development" (graduate level course directed by HMB)
1994, 95, Spring:	Pharmacology 240: Course and Seminar Series on "Drug Discovery", Stanford University (graduate level course, lecture by HMB on gene therapy)
1998, 2000-01, Spring:	Pharmacology 231: Course and Seminar Series on "Stem Cells and Gene Therapy" (graduate level course co-directed by HMB and Garry Nolan)
2000, Spring	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)
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"
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)
2001, Winter:	Bio 2: Sophomore Lecture Series (faculty members lecture to undergraduates to inform them about careers in sciences and areas of research)
2002-03, Spring:	Microbiology & Immunology 231: Course and Seminar Series on "Stem Cells and Gene Therapy" (graduate level course co-directed by HMB and Garry Nolan)
2004, Winter	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)

2005-2011:	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 at Stanford. Speakers alternate between 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)

Publications:

Papers published in refereed scientific journals (>25% in Cell, Science or Nature)

1. Blau, H.M. and Kafatos, F.C. (1978) Secretory kinetics in the follicular cells of silkmoths during eggshell formation. J. Cell Biol. 78:131-151.

2. Blau, H.M. and Kafatos, F.C. (1979) Morphogenesis of the silkmoth chorion: Patterns of distribution and insolubilization of the structural proteins. Devel. Biol. 72:211-225.

3. Blau, H.M. and Epstein, C.J. (1979) Manipulation of myogenesis *in vitro*: Reversible inhibition by DMSO. Cell 17:95-108.

4. Blau, H. M. and Webster, C. (1981) Isolation and characterization of human muscle cells. Proc. Natl. Acad. Sci., USA 78:5623-5627.

5. Blau, H.M., Kaplan, I., Tao, T.W. and Kriss, J.P. (1983) Thyroglobulin-independent, cell-mediated cytotoxicity of human eye muscle cells in tissue culture by lymphocytes of a patient with Graves' Ophthalmopathy. Life Sci. 32:45-53.

6. Blau, H.M., Webster, C., Chiu, C.-P., Guttman, S. and Chandler, F. (1983) Differentiation properties of pure populations of human dystrophic muscle cells. Exp. Cell Res. 144:495-503.

7. Gunning, P., Ponte, P, Okayama, H., Engel, J., Blau, H.M. and Kedes, L. (1983) Isolation and characterization of full-length cDNA clones for human alpha-, beta-, and gamma-actin mRNAs: Skeletal but not cytoplasmic actins have an amino terminal cysteine that is subsequently removed. Mol. Cell. Biol. 3:787-795.

8. Blau, H.M., Chiu, C.-P. and Webster, C. (1983) Cytoplasmic activation of human nuclear genes in stable heterokaryons. Cell 32:1171-1180.

9. Blau, H.M., Webster, C. and Pavlath, G.K. (1983) Defective myoblasts identified in Duchenne muscular dystrophy. Proc. Natl. Acad. Sci., USA 80:4856-4860.

10. Ponte, P., Gunning, P., Blau, H.M. and Kedes, L.(1983) Human actin genes are single copy for α-skeletal and α-cardiac actin but multicopy for ß- and γ-cytoskeletal genes: 3' untranslated regions are isotype specific, but are conserved in evolution. Mol. Cell. Biol. 3:1783-1791.

11. Gunning, P., Ponte, P., Blau, H.M. and Kedes, L. (1983) Alpha-skeletal and alpha-cardiac actin genes are co-expressed in adult human skeletal muscle and heart. Mol. Cell. Biol. 3:1985-1995.

12. Chiu, C.P. and Blau, H.M. (1984) Reprogramming cell differentiation in the absence of DNA synthesis. Cell 37:879-887.

13. Bains, W., Ponte, P., Blau, H. and Kedes, L. (1984) Cardiac actin is the major actin gene product in skeletal muscle cell differentiation *in vitro*. Mol. Cell. Biol. 4:1449-1453.

14. Chiu, C.P. and Blau, H.M. (1985) 5-Azacytidine permits gene activation in a previously non-inducible cell type. Cell 40:417-424.

15. Blau, H.M., Pavlath, G.K., Hardeman, E.C., Chiu, C.-P., Silberstein, L., Webster, S.G., Miller, S.C. and Webster, C. (1985) Plasticity of the differentiated state. Science 230:758-766.

16. Pavlath, G.K. and Blau, H.M. (1986) Expression of muscle genes in heterokaryons depends on gene dosage. J. Cell Biol. 102:124-130.

17. Minty, A.J., Blau, H.M. and Kedes, L. (1986) Two-level regulation of cardiac actin gene transcription: Muscle-specific modulating factors can accumulate before gene activation. Mol. Cell. Biol. 6:2137-2148.

18. Webster, C., Filippi, G., Rinaldi, A., Mastropaolo, C., Tondi, M., Siniscalco, M. and Blau, H.M. (1986) The myoblast defect identified in Duchenne muscular dystrophy is not a primary expression of the DMD mutation: Clonal analysis of myoblasts from double heterozygotes for two X-linked loci: DMD and G6PD. Human Genetics 74:74-80.

19. Kaplan, I.D. and Blau, H.M. (1986) Metabolic properties of human acetylcholine receptors can be characterized on cultured human muscle. Exp. Cell Res. 166:379-390.

20. Costa, E.M., Blau, H.M. and Feldman, D. (1986) 1,25 dihydroxyvitamin D_3 receptors and hormonal responses in cloned human skeletal muscle cells. Endocrinology 119:2214-2220.

21. Silberstein, L., Webster, S.G., Travis, M. and Blau, H.M. (1986) Developmental progression of myosin gene expression in cultured muscle cells. Cell 46:1075-1081.

22. Shimizu, M., Webster, C., Morgan, D.O., Blau, H.M. and Roth, R.A. (1986) Insulin and insulin-like growth factor receptors and responses in cultured human muscle cells. Amer. J. Physiol. 251:E611-E615.

23. Hardeman, E., Chiu, C.-P., Minty, A. and Blau, H.M. (1986) The pattern of actin expression in human fibroblast x mouse muscle heterokaryons suggests that human muscle regulatory factors are produced. Cell 47:123-130.

24. Gunning, P., Hardeman, E., Wade, R., Ponte, P., Bains, W., Blau, H.M. and Kedes, L.(1987) Differential patterns of transcript accumulation during human myogenesis. Mol. Cell. Biol. 7:4100-4114.

25. Soileau, L.C., Silberstein, L., Blau, H.M. and Thompson, W.J. (1987) Reinnervation of muscle fiber types in the newborn rat soleus. J. Neurosci. 7:4176-4194.

26. Webster, C., Pavlath, G.K., Parks, D.R., Walsh, F.S. and Blau, H.M. (1988) Isolation of human myoblasts with the fluorescence-activated cell sorter. Exp. Cell Res. 174:252-265.

27. Miller, S.C., Pavlath, G.K., Blakely, B.T. and Blau, H.M. (1988) Muscle cell components dictate hepatocyte gene expression and the distribution of the Golgi apparatus in heterokaryons. Genes Dev. 2:330-340.

28. Webster, C., Silberstein, L., Hays, A.P. and Blau, H.M. (1988) Fast muscle fibers are preferentially affected in Duchenne muscular dystrophy. Cell 52:503-513.

29. Hardeman, E.C., Minty, A., Benton-Vosman, P., Kedes, L. and Blau, H.M. (1988) *In vivo* system for characterizing clonal variation and tissue-specific gene regulatory factors based on function. J. Cell Biol. 106:1027-1034.

30. Blau, H.M. (1988) Hierarchies of regulatory genes may specify mammalian development. Cell 53:673-674.

31. Miller, S.C., Ito, H., Blau, H.M. and Torti, F.M. (1988) Tumor necrosis factor inhibits human myogenesis *in vitro*. Mol. Cell. Biol. 8:2295-2301.

32. Ham, R.G., St. Clair, J.A., Webster, C. and Blau, H.M. (1988) Improved media for normal human muscle satellite cells: Serum-free clonal growth and enhanced growth with low serum. *In Vitro* Cell Dev. Biol. 24:833-844.

33. Blau, H.M. (1989) How fixed is the differentiated state? Lessons from heterokaryons. Trends in Genetics 5:268-272.

34. Pavlath, G.K., Rich, K., Webster, S.G. and Blau, H.M. (1989) Localization of muscle gene products in nuclear domains. Nature 337:570-573.

35. Pavlath, G.K., Chiu, C.-P. and Blau, H.M. (1989) *In vivo* aging of human fibroblasts does not alter nuclear plasticity in heterokaryons. Som. Cell Mol. Genet. 15:191-202.

36. Karsch-Mizrachi, I., Travis, M., Blau, H.M. and Leinwand, L.A. (1989) Expression and DNA sequence analysis of a human embryonic skeletal muscle myosin heavy chain gene. Nucleic Acids Res. 17:6167-6179.

37. Schäfer, B.W., Blakely, B.T., Darlington, G.J. and Blau, H.M. (1990) Effect of cell history on response to helix-loop-helix family of myogenic regulators. Nature 344:454-458.

38. Kaplan, I., Blakely, B.T., Pavlath, G.K., Travis, M. and Blau, H.M. (1990) Steroids induce acetylcholine receptors on cultured human muscle: Implications for myasthenia gravis. Proc. Natl. Acad. Sci., USA 87:8100-8104.

39. Condon, K., Silberstein, L., Blau, H.M. and Thompson, W.J. (1990) Development of muscle fiber types in the prenatal rat hindlimb. Devel. Biol. 138:256-274.

40. Condon, K., Silberstein, L., Blau, H.M. and Thompson, W.J. (1990) Differentiation of fiber types in aneural musculature of the prenatal rat hindlimb. Devel. Biol. 138:275-295.

41. Hughes, S.M. and Blau, H.M. (1990) Migration of myoblasts across basal lamina during skeletal muscle development. Nature 345:350-353.

42. Peterson, C.A., Gordon, H., Hall, Z.W., Paterson, B.M. and Blau, H.M. (1990) Negative control of the helix-loop-helix family of myogenic regulators in the NFB mutant. Cell 62:493-502.

43. Hughes, S.M. and Blau, H.M. (1990) Cell lineage in vertebrate development. Curr. Opin. in Cell Biol. 2:981-985.

44. Webster, C. and Blau, H.M. (1990) Accelerated age-related decline in replicative lifespan of Duchenne muscular dystrophy myoblasts: Implications for cell and gene therapy. Som. Cell Mol. Genet. 16:557-565.

45. Mantegazza, R., Hughes, S.M., Mitchell, D., Travis, M., Blau, H.M, and Steinman, L. (1991) Modulation of MHC class II antigen expression in human myoblasts after treatment with IFN-γ. Neurology 41:1128-1132. PMCID: PMC2288865.

46. Blau, H.M. and Baltimore, D. (1991) Differentiation requires continuous regulation. J. Cell Biol. 112:781-783.

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