Stanford

Helen M. Blau

The Donald E. and Delia B. Baxter Foundation Professor and Director, Baxter Laboratory for Stem Cell Biology

Microbiology & Immunology - Baxter Laboratory

NIH Biosketch available Online Curriculum Vitae available Online

CONTACT INFORMATION

- **Administrative Contact**

  Cindy Paulazzo - Executive Coordinator to Helen Blau, PhD

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  Tel 650.725.5090

Bio

BIO

Assistant Professor, Stanford University, 1978

Associate Professor, Stanford University, 1986

Professor, Stanford University, 1991

ACADEMIC APPOINTMENTS

- Professor, Microbiology & Immunology - Baxter Laboratory
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chair, Department of Molecular Pharmacology, (1997-2002)
- Director, Baxter Laboratory for Stem Cell Biology, (2000- present)
- Associate Program Director, Predoctoral Training, Developmental Biology and Neonatology Training Grant, (2008- present)

HONORS AND AWARDS

- Fellow, American Association for the Advancement of Science (1991)
- Member, National Academy of Medicine (1995)
- Member, American Academy of Arts and Sciences (1996)
- FASEB Excellence in Science Award, FASEB (1999)
- Member, National Academy of Sciences (2016)
- Member, National Academy of Inventors (2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- President, American Society for Developmental Biology (1994 - 1995)
- National Advisory Council Member, National Institute of Aging (1996 - 2000)
- Board Member, American Society for Gene Therapy (1998 - 2002)
- Council Member, American Society for Cell Biology (2002 - 2004)
- Council Member, Institute of Medicine (IOM) of National Academy of Sciences (2003 - 2009)
- President, International Society of Differentiation (2004 - 2005)
- Member, Harvard Board of Overseers (2004 - 2010)
- Board Member, Ellison Medical Foundation (2007 - 2015)
- Member, Pew Scholars Advisory Committee (2011 - present)

PROFESSIONAL EDUCATION

- Postdoctoral, Dept. Biochemistry and Biophysics, University of California, San Francisco , Medical Genetics (1978)
- Ph.D., Harvard University , Biology (1975)
- M.A., Harvard University , Biology (1970)
- B.A., University of York , Biology (1969)

PATENTS

- Helen Blau. "United States Patent 9918994B1 Compositions and methods for muscle regeneration using prostaglandin E2", Mar 20, 2018
- "United States Patent 8,852,579 Methods of inducing tissue regeneration", Oct 7, 2014
- "United States Patent 8,679,832 Biological sensor for protein interactions", Mar 25, 2014
- "United States Patent 8,586,294 Detection of protein translocation by beta-galactosidase reporter fragment complementation", Nov 19, 2013
- "United States Patent 8,541,175 Detection of molecular interactions using a reduced affinity enzyme complementation reporter system", Sep 24, 2013
- "United States Patent 8,426,138 GPCR functional assay: Detection of sub-cellular compartment localization of a molecule using a reduced affinity enzyme complementation reporter system", Apr 23, 2013
- "United States Patent 8,148,110 Detection of protein modification", Apr 3, 2012
- "United States Patent 7,582,417 Sequential reporter enzyme luminescence (srl) methods and compositions for practicing the same", Sep 1, 2009
- "United States Patent 7,223,537 Detection of molecular interactions by reporter subunit complementation", May 29, 2007
- "United States Patent 6,342,345 Novel system for detection of protein-protein interactions in mammalian cells", Jan 29, 2002

LINKS

- Blau Lab Website: http://www.stanford.edu/group/blau

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Blau studies cellular reprogramming, therapeutic interventions to enhance stem cell function in muscle regeneration, and cell rejuvenation strategies. By perturbing the intracellular or extracellular milieu, we are probing the regulatory network and molecular grammars that determine cell fate and how it can be altered in aging. This knowledge is key to our understanding of nuclear reprogramming and how to enlist cells for therapeutic purposes. We also focus on dedicated stem cells that exist in our muscle tissues to learn what goes awry as we age or in genetic muscle wasting disorders. For example, we have discovered novel small molecules and niche proteins that rejuvenate, expand, and enhance the function of muscle stem cells, crucial for muscle regeneration. We have also determined a new role for telomeres in Duchenne muscular dystrophy, which provides novel insights into the development of the disease and potential treatments.A potential strategy to counter short telomere

disorders entails our novel method of rapidly extending telomeres. To accomplish these goals we integrate diverse powerful single cell technologies for studying cells at the protein, genome, and epigenetic levels, as well as advanced imaging techniques and algorithms for tracking cell fate in vitro and in vivo. Our overarching goal is to make a difference in human health.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Erin Coyne, Asuka Eguchi, Glenn Markov, Gaspard Pardon, Meenakshi Ravichandran, Will Wang

Postdoctoral Research Mentor

Asuka Eguchi, Christopher Madl, Gaspard Pardon, Will Wang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Bioengineering (Phd Program)
- Cancer Biology (Phd Program)
- Genetics (Phd Program)
- Microbiology and Immunology (Phd Program)
- Neurosciences (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **An In Vitro Model for Identifying Cardiac Side Effects of Anesthetics** *ANESTHESIA AND ANALGESIA*
  Chang, A. Y., Chang, A. H., Nicin, L., Weber, G. J., Holbrook, C., Davies, M., Blau, H. M., Bertaccini, E. J.
  2020; 130 (1): E1–E4
- **Adult stem cells and regenerative medicine-a symposium report.** *Annals of the New York Academy of Sciences*
  Cable, J., Fuchs, E., Weissman, I., Jasper, H., Glass, D., Rando, T. A., Blau, H., Debnath, S., Oliva, A., Park, S., Passegue, E., Kim, C., Krasnow, et al
  2019
- **Role of Telomere Dysfunction in Duchenne Muscular Dystrophy Cardiomyopathy**
  Eguchi, A., Chang, A. C., Pardon, G., Pruitt, B. L., Bernstein, D., Blau, H. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019
- **Substrate Elasticity Impacts Duchenne Muscular Dystrophy Cardiomyopathy Progression**
  Pardon, G., Chang, A. C., Pruitt, B. L., Blau, H. M.
  LIPPINCOTT WILLIAMS & WILKINS.2019
- **Glucose Metabolism Drives Histone Acetylation Landscape Transitions that Dictate Muscle Stem Cell Function.** *Cell reports*
  Yucel, N., Wang, Y. X., Mai, T., Porpiglia, E., Lund, P. J., Markov, G., Garcia, B. A., Bendall, S. C., Angelo, M., Blau, H. M.
  2019; 27 (13): 3939
- **A Human iPSC Double-Reporter System Enables Purification of Cardiac Lineage Subpopulations with Distinct Function and Drug Response Profiles.** *Cell stem cell*
  Zhang, J. Z., Termglinchan, V., Shao, N., Itzhaki, I., Liu, C., Ma, N., Tian, L., Wang, V. Y., Chang, A. C., Guo, H., Kitani, T., Wu, H., Lam, et al
  2019
- **Stem Cells in the Treatment of Disease.** *The New England journal of medicine*
  Blau, H. M., Daley, G. Q.
  2019; 380 (18): 1748–60

- **Modelling diastolic dysfunction in induced pluripotent stem cell-derived cardiomyocytes from hypertrophic cardiomyopathy patients.** *European heart journal*
  Wu, H., Yang, H., Rhee, J. W., Zhang, J. Z., Lam, C. K., Sallam, K., Chang, A. C., Ma, N., Lee, J., Zhang, H., Blau, H. M., Bers, D. M., Wu, et al
  2019

- **Macrophages rescue injured engineered muscle** *NATURE BIOMEDICAL ENGINEERING*
  Wang, Y., Blau, H. M.
  2018; 2 (12): 890–91

- **An In Vitro Model for Identifying Cardiac Side Effects of Anesthetics.** *Anesthesia and analgesia*
  Chang, A. C., Chang, A. C., Nicin, L., Weber, G. J., Holbrook, C., Davies, M. F., Blau, H. M., Bertaccini, E. J.
  2018

- **Engineered DNA plasmid reduces immunity to dystrophin while improving muscle force in a model of gene therapy of Duchenne dystrophy.** *Proceedings of the National Academy of Sciences of the United States of America*
  Ho, P. P., Lahey, L. J., Mourkioti, F., Kraft, P. E., Filareto, A., Brandt, M., Magnusson, K. E., Finn, E. E., Chamberlain, J. S., Robinson, W. H., Blau, H. M., Steinman, L.
  2018

- **Telomere shortening is a hallmark of genetic cardiomyopathies.** *Proceedings of the National Academy of Sciences of the United States of America*
  Chang, A. C., Chang, A. C., Kirillova, A., Sasagawa, K., Su, W., Weber, G., Lin, J., Termglinchan, V., Karakikes, I., Seeger, T., Dainis, A. M., Hinson, J. T., Seidman, et al
  2018

- **A robust Pax7EGFP mouse that enables the visualization of dynamic behaviors of muscle stem cells** *SKELETAL MUSCLE*
  Tichy, E. D., Sidibe, D. K., Greer, C. D., Oyster, N. M., Rompolas, P., Rosenthal, N. A., Blau, H. M., Mourkioti, F.
  2018; 8: 27

- **NKX3-1 is required for induced pluripotent stem cell reprogramming and can replace OCT4 in mouse and human iPSC induction.** *Nature cell biology*
  Mai, T., Markov, G. J., Brady, J. J., Palla, A., Zeng, H., Sebastiano, V., Blau, H. M.
  2018

- **Bioengineering strategies to accelerate stem cell therapeutics** *NATURE*
  Madl, C. M., Heilshorn, S. C., Blau, H. M.
  2018; 557 (7705): 335–42

- **Induction of muscle stem cell quiescence by the secreted niche factor Oncostatin M** *NATURE COMMUNICATIONS*
  Sampath, S. C., Sampath, S. C., Ho, A. V., Corbel, S. Y., Millstone, J. D., Lamb, J., Walker, J., Kinzel, B., Schmedt, C., Blau, H. M.
  2018; 9: 1531

- **AN IN VITRO MODEL FOR STUDYING THE CARDIOTOXICITY OF NEW ANESTHETICS**
  Bertaccini, E. J., Chang, A. C., Chang, A. C., Weber, G. J., Nicin, L., Davies, F., Blau, H.
  LIPPINCOTT WILLIAMS & WILKINS.2018: 35

- **Publisher Correction: High-resolution myogenic lineage mapping by single-cell mass cytometry.** *Nature cell biology*
  Porpiglia, E., Samusik, N., Van Ho, A. T., Cosgrove, B. D., Mai, T., Davis, K. L., Jager, A., Nolan, G. P., Bendall, S. C., Fantl, W. J., Blau, H. M.
  2018

- **Short telomeres - A hallmark of heritable cardiomyopathies** *DIFFERENTIATION*
  Chang, A. Y., Blau, H. M.
  2018; 100: 31–36

- **Humanizing the mdx mouse model of DMD: the long and the short of it** *NPJ REGENERATIVE MEDICINE*
  Yucel, N., Chang, A. C., Day, J. W., Rosenthal, N., Blau, H. M.
  2018; 3: 4

- **Muscling toward therapy with ERBB3 and NGFR** *NATURE CELL BIOLOGY*
  Ho, A. V., Blau, H. M.
  2018; 20 (1): 6–7

- **Macrophages rescue injured engineered muscle.** *Nature biomedical engineering*
  Wang, Y. X., Blau, H. M.
  2018; 2 (12): 890–91

- **An objective comparison of cell-tracking algorithms** *NATURE METHODS*
  Ulman, V., Maska, M., Magnusson, K. G., Ronneberger, O., Haubold, C., Harder, N., Matula, P., Matula, P., Svoboda, D., Radojevic, M., Smal, I., Rohr, K., Jalden, et al
  2017; 14 (12): 1141-+

- **Long telomeres protect against age-dependent cardiac disease caused by NOTCH1 haploinsufficiency** *JOURNAL OF CLINICAL INVESTIGATION*
  Theodoris, C. V., Mourkioti, F., Huang, Y., Ranade, S. S., Liu, L., Blau, H. M., Srivastava, D.
  2017; 127 (5): 1683-1688

- **High-resolution myogenic lineage mapping by single-cell mass cytometry** *NATURE CELL BIOLOGY*
  Porpiglia, E., Samusik, N., Van Ho, A. T., Cosgrove, B. D., Mai, T., Davis, K. L., Jager, A., Nolan, G. P., Bendall, S. C., Fantl, W. J., Blau, H. M.
  2017; 19 (5): 558-?

- **Discovery of novel determinants of endothelial lineage using chimeric heterokaryons** *ELIFE*
  Wong, W. T., Matrone, G., Tian, X., Tomoiaga, S. A., Au, K. F., Meng, S., Yamazoe, S., Sieveking, D., Chen, K., Burns, D. M., Chen, J. K., Blau, H. M., Cooke, et al
  2017; 6

- **Dermatologist-level classification of skin cancer with deep neural networks.** *Nature*
  Esteva, A., Kuprel, B., Novoa, R. A., Ko, J., Swetter, S. M., Blau, H. M., Thrun, S.
  2017; 542 (7639): 115-118

- **Injectable biomimetic liquid crystalline scaffolds enhance muscle stem cell transplantation.** *Proceedings of the National Academy of Sciences of the United States of America*
  Sleep, E., Cosgrove, B. D., McClendon, M. T., Preslar, A. T., Chen, C. H., Sangji, M. H., Pérez, C. M., Haynes, R. D., Meade, T. J., Blau, H. M., Stupp, S. I.
  2017; 114 (38): E7919–E7928

- **Prostaglandin E2 is essential for efficacious skeletal muscle stem-cell function, augmenting regeneration and strength.** *Proceedings of the National Academy of Sciences of the United States of America*
  Ho, A. T., Palla, A. R., Blake, M. R., Yucel, N. D., Wang, Y. X., Magnusson, K. E., Holbrook, C. A., Kraft, P. E., Delp, S. L., Blau, H. M.
  2017; 114 (26): 6675–84

- **Telomere shortening and metabolic compromise underlie dystrophic cardiomyopathy.** *Proceedings of the National Academy of Sciences of the United States of America*
  Chang, A. C., Ong, S., Lagory, E. L., Kraft, P. E., Giaccia, A. J., Wu, J. C., Blau, H. M.
  2016

- **Human induced pluripotent stem cell-derived cardiomyocytes recapitulate the predilection of breast cancer patients to doxorubicin-induced cardiotoxicity** *NATURE MEDICINE*
  Burridge, P. W., Li, Y. F., Matsa, E., Wu, H., Ong, S., Sharma, A., Holmstrom, A., Chang, A. C., Coronado, M. J., Ebert, A. D., Knowles, J. W., Telli, M. L., Witteles, et al
  2016; 22 (5): 547-556

- **Noninvasive Tracking of Quiescent and Activated Muscle Stem Cell (MuSC) Engraftment Dynamics In Vivo.** *Methods in molecular biology (Clifton, N.J.)*
  Ho, A. T., Blau, H. M.
  2016; 1460: 181-189

- **The central role of muscle stem cells in regenerative failure with aging** *NATURE MEDICINE*
  Blau, H. M., Cosgrove, B. D., Ho, A. T.
  2015; 21 (8): 854-862

- **Turning terminally differentiated skeletal muscle cells into regenerative progenitors** *NATURE COMMUNICATIONS*
  Wang, H., Loof, S., Borg, P., Nader, G. A., Blau, H. M., Simon, A.
  2015; 6

- **Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice** *PLOS ONE*

Raval, A., Behbehani, G. K., Le Xuan Truong Nguyen, L. X., Thomas, D., Kusler, B., Garbuzov, A., Ramunas, J., Holbrook, C., Park, C. Y., Blau, H., Nolan, G. P., Artandi, S. E., Mitchell, et al

2015; 10 (7)

- **Transient delivery of modified mRNA encoding TERT rapidly extends telomeres in human cells** *FASEB JOURNAL*

  Ramunas, J., Yakubov, E., Brady, J. J., Corbel, S. Y., Holbrook, C., Brandt, M., Stein, J., Santiago, J. G., Cooke, J. P., Blau, H. M.

  2015; 29 (5): 1930-1939

- **Global Linking of Cell Tracks Using the Viterbi Algorithm** *IEEE TRANSACTIONS ON MEDICAL IMAGING*

  Magnusson, K. E., Jalden, J., Gilbert, P. M., Blau, H. M.

  2015; 34 (4): 911-929

- **Direct evaluation of myocardial viability and stem cell engraftment demonstrates salvage of the injured myocardium.** *Circulation research*

  Kim, P. J., Mahmoudi, M., Ge, X., Matsuura, Y., Toma, I., Metzler, S., Kooreman, N. G., Ramunas, J., Holbrook, C., McConnell, M. V., Blau, H., Harnish, P., Rulifson, et al

  2015; 116 (7): e40-50

- **Direct Evaluation of Myocardial Viability and Stem Cell Engraftment Demonstrates Salvage of the Injured Myocardium** *CIRCULATION RESEARCH*

  Kim, P. J., Mahmoudi, M., Ge, X., Matsuura, Y., Toma, I., Metzler, S., Kooreman, N. G., Ramunas, J., Holbrook, C., McConnell, M. V., Blau, H., Harnish, P., Rulifson, et al

  2015; 116 (7): E40-?

- **Reversibility of Defective Hematopoiesis Caused by Telomere Shortening in Telomerase Knockout Mice.** *PloS one*

  Raval, A., Behbehani, G. K., Nguyen, L. X., Thomas, D., Kusler, B., Garbuzov, A., Ramunas, J., Holbrook, C., Park, C. Y., Blau, H., Nolan, G. P., Artandi, S. E., Mitchell, et al

  2015; 10 (7)

- **Simultaneous silencing of multiple RB and p53 pathway members induces cell cycle reentry in intact human pancreatic islets** *BMC BIOTECHNOLOGY*

  Tamaki, S., Nye, C., Slorach, E., Scharp, D., Blau, H. M., Whiteley, P. E., Pomerantz, J. H.

  2014; 14

- **Sir John Gurdon: Father of nuclear reprogramming** *DIFFERENTIATION*

  Blau, H. M.

  2014; 88 (1): 10-12

- **Perspective for special Gurdon issue for differentiation: Can cell fusion inform nuclear reprogramming?** *DIFFERENTIATION*

  Burns, D., Blau, H. M.

  2014; 88 (1): 27-28

- **A benchmark for comparison of cell tracking algorithms.** *Bioinformatics*

  Maška, M., Ulman, V., Svoboda, D., Matula, P., Matula, P., Ederra, C., Urbiola, A., España, T., Venkatesan, S., Balak, D. M., Karas, P., Bolcková, T., Streitová, et al

  2014; 30 (11): 1609-1617

- **Non-invasive intravital imaging of cellular differentiation with a bright red-excitable fluorescent protein** *NATURE METHODS*

  Chu, J., Haynes, R. D., Corbel, S. Y., Li, P., Gonzalez-Gonzalez, E., Burg, J. S., Ataie, N. J., Lam, A. J., Cranfill, P. J., Baird, M. A., Davidson, M. W., Ng, H., Garcia, et al

  2014; 11 (5): 572-578

- **Rejuvenation of the muscle stem cell population restores strength to injured aged muscles.** *Nature medicine*

  Cosgrove, B. D., Gilbert, P. M., Porpiglia, E., Mourkioti, F., Lee, S. P., Corbel, S. Y., Llewellyn, M. E., Delp, S. L., Blau, H. M.

  2014; 20 (3): 255-264

- **Objective comparison of particle tracking methods** *NATURE METHODS*

  Chenouard, N., Smal, I., de Chaumont, F., Maska, M., Sbalzarini, I. F., Gong, Y., Cardinale, J., Carthel, C., Coraluppi, S., Winter, M., Cohen, A. R., Godinez, W. J., Rohr, et al

  2014; 11 (3): 281-U247

- **Early role for IL-6 signalling during generation of induced pluripotent stem cells revealed by heterokaryon RNA-Seq.** *Nature cell biology*

  Brady, J. J., Li, M., Suthram, S., Jiang, H., Wong, W. H., Blau, H. M.

  2013; 15 (10): 1244-1252

- **Early role for IL-6 signalling during generation of induced pluripotent stem cells revealed by heterokaryon RNA-Seq.** *Nature cell biology*
  Brady, J. J., Li, M., Suthram, S., Jiang, H., Wong, W. H., Blau, H. M.
  2013; 15 (10): 1244-1252

- **Role of telomere dysfunction in cardiac failure in Duchenne muscular dystrophy.** *Nature cell biology*
  Mourkioti, F., Kustan, J., Kraft, P., Day, J. W., Zhao, M., Kost-Alimova, M., Protopopov, A., DePinho, R. A., Bernstein, D., Meeker, A. K., Blau, H. M.
  2013; 15 (8): 895-904

- **Tumor suppressors: enhancers or suppressors of regeneration?** *DEVELOPMENT*
  Pomerantz, J. H., Blau, H. M.
  2013; 140 (12): 2502-2512

- **Non-Invasive High-Resolution Imaging of Muscle Regeneration with a New Red-Absorbing Fluorescent Protein** *16th Annual Meeting of the American-Society-of-Gene-and-Cell-Therapy (ASGCT)*
  Chu, J., Haynes, R. D., Corbel, S. Y., Li, P., Gonzalez-Gonzalez, E., Cranfill, P. J., Baird, M., Davidson, M. W., Contag, C. H., Shen, K., Blau, H. M., Lin, M. Z.
  NATURE PUBLISHING GROUP.2013: S97–S97

- **A critical role for AID in the initiation of reprogramming to induced pluripotent stem cells** *FASEB JOURNAL*
  Bhutani, N., Decker, M. N., Brady, J. J., Bussat, R. T., Burns, D. M., Corbel, S. Y., Blau, H. M.
  2013; 27 (3): 1107-1113

- **Translating the genomics revolution: the need for an international gene therapy consortium for monogenic diseases.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Tremblay, J. P., Xiao, X., Aartsma-Rus, A., Barbas, C., Blau, H. M., Bogdanove, A. J., Boycott, K., Braun, S., Breakefield, X. O., Bueren, J. A., Buschmann, M., Byrne, B. J., Calos, et al
  2013; 21 (2): 266-268

- **An immunoreceptor tyrosine-based inhibition motif in varicella-zoster virus glycoprotein B regulates cell fusion and skin pathogenesis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Oliver, S. L., Brady, J. J., Sommer, M. H., Reichelt, M., Sung, P., Blau, H. M., Arvin, A. M.
  2013; 110 (5): 1911-1916

- **New Far-Red Fluorescent Proteins for Non-Invasive Imaging of Stem Cell Differentiation** *57th Annual Meeting of the Biophysical-Society*
  Chu, J., Haynes, R. D., Corbel, S. Y., Blau, H. M.
  CELL PRESS.2013: 342A–342A

- **Protein-Engineered Biomaterials to Generate Human Skeletal Muscle Mimics** *ADVANCED HEALTHCARE MATERIALS*
  Sengupta, D., Gilbert, P. M., Johnson, K. J., Blau, H. M., Heilshorn, S. C.
  2012; 1 (6): 785-789

- **Redefining differentiation: Reshaping our ends** *NATURE CELL BIOLOGY*
  Blau, H. M.
  2012; 14 (6): 558-558

- **Therapeutic angiogenesis due to balanced single-vector delivery of VEGF and PDGF-BB** *FASEB JOURNAL*
  Banfi, A., von Degenfeld, G., Gianni-Barrera, R., Reginato, S., Merchant, M. J., McDonald, D. M., Blau, H. M.
  2012; 26 (6): 2486-2497

- **A single cell bioengineering approach to elucidate mechanisms of adult stem cell self-renewal** *INTEGRATIVE BIOLOGY*
  Gilbert, P. M., Corbel, S., Doyonnas, R., Havenstrite, K., Magnusson, K. E., Blau, H. M.
  2012; 4 (4): 360-367

- **Structure-function analysis of varicella-zoster virus glycoprotein H identifies domain-specific roles for fusion and skin tropism** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Vleck, S. E., Oliver, S. L., Brady, J. J., Blau, H. M., Rajamani, J., Sommer, M. H., Arvin, A. M.
  2011; 108 (45): 18412-18417

- **Nanogel Star Polymer Architectures: A Nanoparticle Platform for Modular Programmable Macromolecular Self-Assembly, Intercellular Transport, and Dual-Mode Cargo Delivery** *ADVANCED MATERIALS*
  Lee, V. Y., Havenstrite, K., Tjio, M., McNeil, M., Blau, H. M., Miller, R. D., Sly, J.

2011; 23 (39): 4509-?

- **DNA Demethylation Dynamics** *CELL*
  Bhutani, N., Burns, D. M., Blau, H. M.
  2011; 146 (6): 866-872

- **MicroRNA programs in normal and aberrant stem and progenitor cells** *GENOME RESEARCH*
  Arnold, C. P., Tan, R., Zhou, B., Yue, S., Schaffert, S., Biggs, J. R., Doyonnas, R., Lo, M., Perry, J. M., Renault, V. M., Sacco, A., Somervaille, T., Viatour, et al
  2011; 21 (5): 798-810

- **Single-cell phospho-specific flow cytometric analysis demonstrates biochemical and functional heterogeneity in human hematopoietic stem and progenitor compartments** *BLOOD*
  Gibbs, K. D., Gilbert, P. M., Sachs, K., Zhao, F., Blau, H. M., Weissman, I. L., Nolan, G. P., Majeti, R.
  2011; 117 (16): 4226-4233

- **Engineering a stem cell house into a home** *STEM CELL RESEARCH & THERAPY*
  Gilbert, P. M., Blau, H. M.
  2011; 2

- **Re"evolutionary" Regenerative Medicine** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Blau, H. M., Pomerantz, J. H.
  2011; 305 (1): 87-88

- **Insights into Nuclear Reprogramming via Heterokaryon RNA Sequencing** *Annual Meeting of the American-Society-for-Cell-Biology (ASCB)*
  Brady, J., Li, M., Tran-Bussat, R., Jiang, H., Wong, W., Blau, H.
  AMER SOC CELL BIOLOGY.2011

- **Short Telomeres and Stem Cell Exhaustion Model Duchenne Muscular Dystrophy in mdx/mTR Mice** *CELL*
  Sacco, A., Mourkioti, F., Tran, R., Choi, J., Llewellyn, M., Kraft, P., Shkreli, M., Delp, S., Pomerantz, J. H., Artandi, S. E., Blau, H. M.
  2010; 143 (7): 1059-1071

- **skNAC, a Smyd1-interacting transcription factor, is involved in cardiac development and skeletal muscle growth and regeneration** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Park, C. Y., Pierce, S. A., von Drehle, M., Ivey, K. N., Morgan, J. A., Blau, H. M., Srivastava, D.
  2010; 107 (48): 20750-20755

- **Substrate Elasticity Regulates Skeletal Muscle Stem Cell Self-Renewal in Culture** *SCIENCE*
  Gilbert, P. M., Havenstrite, K. L., Magnusson, K. E., Sacco, A., Leonardi, N. A., Kraft, P., Nguyen, N. K., Thrun, S., Lutolf, M. P., Blau, H. M.
  2010; 329 (5995): 1078-1081

- **Transient Inactivation of Rb and ARF Yields Regenerative Cells from Postmitotic Mammalian Muscle** *CELL STEM CELL*
  Pajcini, K. V., Corbel, S. Y., Sage, J., Pomerantz, J. H., Blau, H. M.
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