Stanford

Helen M. Blau

Donald E. and Delia B. Baxter Foundation Professor, Director, Baxter Laboratory for Stem Cell Biology and Professor, by courtesy, of Psychiatry and Behavioral Sciences

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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Bio

BIO

Professor, Stanford University, 1991

Associate Professor, Stanford University, 1986

Assistant Professor, Stanford University, 1978

ACADEMIC APPOINTMENTS

- Professor, Microbiology & Immunology - Baxter Laboratory
- Professor (By courtesy), Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Baxter Laboratory for Stem Cell Biology, (2000- present)
- Chair, Department of Molecular Pharmacology, (1997-2002)

HONORS AND AWARDS

- Member, Austrian Academy of Sciences (2024)
- Member, American Institute for Medical and Biological Engineering (2019)
- Honorary Doctorate, University of York, England (2018)
- Member, American Philosophical Society (2018)
- Member, National Academy of Inventors (2017)

- Member, Pontifical Academy of Sciences (2017)
- Member, National Academy of Sciences (2016)
- Honorary Doctorate, University of Nijmegen, Holland (2003)
- FASEB Excellence in Science Award, FASEB (1999)
- Member, American Academy of Arts and Sciences (1996)
- Member, National Academy of Medicine (1995)
- Fellow, American Association for the Advancement of Science (1991)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

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

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
- Helen Blau. "United States Patent 5538722A Isolation, growth, differentiation and genetic engineering of human muscle cells", Jul 23, 1996

LINKS

- Blau Lab Website: https://med.stanford.edu/blau-lab.html
- ORCID: https://orcid.org/0000-0001-6503-5480

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

Jewel Banik, Elena Monti, Harutiun Nalbandian Geymonat, Daniel Robinson

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

- **Transcription factor stoichiometry, motif affinity and syntax regulate single-cell chromatin dynamics during fibroblast reprogramming to pluripotency.** *bioRxiv : the preprint server for biology*
  Nair, S., Ameen, M., Sundaram, L., Pampari, A., Schreiber, J., Balsubramani, A., Wang, Y. X., Burns, D., Blau, H. M., Karakikes, I., Wang, K. C., Kundaje, A.
  2023

- **Regeneration of neuromuscular synapses after acute and chronic denervation by inhibiting the gerozyme 15-prostaglandin dehydrogenase.** *Science translational medicine*
  Bakooshli, M. A., Wang, Y. X., Monti, E., Su, S., Kraft, P., Nalbandian, M., Alexandrova, L., Wheeler, J. R., Vogel, H., Blau, H. M.
  2023; 15 (717): eadg1485

- **Hardwiring tissue-specific AAV transduction in mice through engineered receptor expression.** *Nature methods*
  Zengel, J., Wang, Y. X., Seo, J. W., Ning, K., Hamilton, J. N., Wu, B., Raie, M., Holbrook, C., Su, S., Clements, D. R., Pillay, S., Puschnik, A. S., Winslow, et al
  2023

- **Sex biased human thymic architecture guides T cell development through spatially defined niches.** *bioRxiv : the preprint server for biology*
  Stankiewicz, L. N., Salim, K., Flaschner, E. A., Wang, Y. X., Edgar, J. M., Lin, B. Z., Bingham, G. C., Major, M. C., Jones, R. D., Blau, H. M., Rideout, E. J., Levings, M. K., Zandstra, et al
  2023

- **Single-cell profiling of alveolar rhabdomyosarcoma reveals RAS pathway inhibitors as cell-fate hijackers with therapeutic relevance.** *Science advances*
  Danielli, S. G., Porpiglia, E., De Micheli, A. J., Navarro, N., Zellinger, M. J., Bechtold, I., Kisele, S., Volken, L., Marques, J. G., Kasper, S., Bode, P. K., Henssen, A. G., Gürgen, et al
  2023; 9 (6): eade9238

- **Progress and challenges in stem cell biology.** *Nature cell biology*
  Apostolou, E., Blau, H., Chien, K., Lancaster, M. A., Tata, P. R., Trompouki, E., Watt, F. M., Zeng, Y. A., Zernicka-Goetz, M.
  2023; 25 (2): 203-206

- **Spatial compartmentalization of signaling imparts source-specific functions on secreted factors.** *Cell reports*
  Groppa, E., Martini, P., Derakhshan, N., Theret, M., Ritso, M., Tung, L. W., Wang, Y. X., Soliman, H., Hamer, M. S., Stankiewicz, L., Eisner, C., Erwan, L. N., Chang, et al
  2023; 42 (2): 112051

- **Machine learning-based classification of dual fluorescence signals reveals muscle stem cell fate transitions in response to regenerative niche factors.** *NPJ Regenerative medicine*
  Togninalli, M., Ho, A. T., Madl, C. M., Holbrook, C. A., Wang, Y. X., Magnusson, K. E., Kirillova, A., Chang, A., Blau, H. M.
  2023; 8 (1): 4

- **TRF2 rescues telomere attrition and prolongs cell survival in Duchenne muscular dystrophy cardiomyocytes derived from human iPSCs** *Proceedings of the National Academy of Sciences of the United States of America*
  Eguchi, A., Gonzalez, A. G., Torres-Bigio, S. I., Koleckar, K., Birnbaum, F., Zhang, J. Z., Wang, V. Y., Wu, J. C., Artandi, S. E., Blau, H. M.
  2023; 120 (6): e2209967120

- **Elevated CD47 is a hallmark of dysfunctional aged muscle stem cells that can be targeted to augment regeneration.** *Cell stem cell*
  Porpiglia, E., Mai, T., Kraft, P., Holbrook, C. A., de Morree, A., Gonzalez, V. D., Hilgendorf, K. I., Fresard, L., Trejo, A., Bhimaraju, S., Jackson, P. K., Fantl, W. J., Blau, et al
  2022

- **Plasticity of muscle stem cells in homeostasis and aging.** *Current opinion in genetics & development*
  Porpiglia, E., Blau, H. M.
  2022; 77: 101999

- **Multiparameter analysis of timelapse imaging reveals kinetics of megakaryocytic erythroid progenitor clonal expansion and differentiation.** *Scientific reports*
  Scanlon, V. M., Thompson, E. N., Lawton, B. R., Kochugaeva, M., Ta, K., Mayday, M. Y., Xavier-Ferrucio, J., Kang, E., Eskow, N. M., Lu, Y. C., Kwon, N., Laumas, A., Cenci, et al
  2022; 12 (1): 16218

- **Single-cell profiling reveals a conserved myogenic hierarchy in pediatric rhabdomyosarcomas amenable to differentiation therapy**
  Danielli, S. G., Porpiglia, E., De Micheli, A. J., Bechtold, I., Marques, J. G., Kasper, S., Blau, H. M., Wachtel, M., Schafer, B. W.
  AMER ASSOC CANCER RESEARCH.2022

- **Tamoxifen treatment ameliorates contractile dysfunction of Duchenne muscular dystrophy stem cell-derived cardiomyocytes on bioengineered substrates.** *NPJ Regenerative medicine*
  Birnbaum, F., Eguchi, A., Pardon, G., Chang, A. C., Blau, H. M.
  2022; 7 (1): 19

- **Primary cilia on muscle stem cells are critical to maintain regenerative capacity and are lost during aging.** *Nature communications*
  Palla, A. R., Hilgendorf, K. I., Yang, A. V., Kerr, J. P., Hinken, A. C., Demeter, J., Kraft, P., Mooney, N. A., Yucel, N., Burns, D. M., Wang, Y. X., Jackson, P. K., Blau, et al
  2022; 13 (1): 1439

- **ERYTHROPOIETIN SUPPORTS SURVIVAL AND SELF- RENEWAL OF PRIMARY HUMAN MEGAKARYOCYTICERYTHROID PROGENITORS, BUT DOES NOT INSTRUCT LINEAGE COMMITMENT**
  Scanlon, V., Thompson, E., Lawton, B., Kochugaeva, M., Kang, E., Eskow, N., Sanchez, P., Bobbalan, S., Cenci, M., Pena-Carmona, G., Laumas, A., Anderson, R., Reed, et al
  ELSEVIER SCIENCE INC.2022: S135

- **Biophysical matrix cues from the regenerating niche direct muscle stem cell fate in engineered microenvironments.** *Biomaterials*
  Madl, C. M., Flaig, I. A., Holbrook, C. A., Wang, Y. X., Blau, H. M.

2021; 275: 120973

- **AP-1 is a temporally regulated dual gatekeeper of reprogramming to pluripotency.** *Proceedings of the National Academy of Sciences of the United States of America*
  Markov, G. J., Mai, T., Nair, S., Shcherbina, A., Wang, Y. X., Burns, D. M., Kundaje, A., Blau, H. M.
  2021; 118 (23)

- **Increased tissue stiffness triggers contractile dysfunction and telomere shortening in dystrophic cardiomyocytes.** *Stem cell reports*
  Chang, A. C., Pardon, G., Chang, A. C., Wu, H., Ong, S., Eguchi, A., Ancel, S., Holbrook, C., Ramunas, J., Ribeiro, A. J., LaGory, E. L., Wang, H., Koleckar, et al
  2021

- **Reversing aging for heart repair.** *Science (New York, N.Y.)*
  Wang, Y. X., Blau, H. M.
  2021; 373 (6562): 1439-1440

- **Inhibition of prostaglandin-degrading enzyme 15-PGDH rejuvenates aged muscle mass and strength.** *Science (New York, N.Y.)*
  Palla, A. R., Ravichandran, M., Wang, Y. X., Alexandrova, L., Yang, A. V., Kraft, P., Holbrook, C. A., Schurch, C. M., Ho, A. T., Blau, H. M.
  2020

- **Impaired Inside-out Force Transmission in Hipsc-cardiomyocyte Model of Duchenne Muscular Dystrophy Cardiomyopathy**
  Pardon, G., Birnbaum, F., Eguchi, A., Blau, H. M.
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **A clock that controls human spine development** *NATURE*
  Palla, A., Blau, H.
  2020; 580 (7801): 32–34

- **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

- **Tissue Stem Cells: Architects of Their Niches.** *Cell stem cell*
  Fuchs, E. n., Blau, H. M.
  2020; 27 (4): 532–56

- **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. n., Yang, H. n., Rhee, J. W., Zhang, J. Z., Lam, C. K., Sallam, K. n., Chang, A. C., Ma, N. n., Lee, J. n., Zhang, H. n., Blau, H. M., Bers, D. M., Wu, et al
  2019
- **Macrophages rescue injured engineered muscle.** *Nature biomedical engineering*
  Wang, Y. X., Blau, H. M.
  2018; 2 (12): 890-891
- **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

- **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-+

- **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

- **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

- **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.
  2010; 7 (2): 198-213

- **Nuclear reprogramming to a pluripotent state by three approaches** *NATURE*
  Yamanaka, S., Blau, H. M.
  2010; 465 (7299): 704-712

- **Toxoplasma secreting Cre recombinase for analysis of host-parasite interactions** *NATURE METHODS*
  Koshy, A. A., Fouts, A. E., Lodoen, M. B., Alkan, O., Blau, H. M., Boothroyd, J. C.
  2010; 7 (4): 307-309

- **Gadolinium-based "star-polymers" as targeted MRI probes for detection and imaging of cancer and immune cells**
  Haynes, R. D., Appel, E. A., Niedringhaus, T. P., Nguyen, T. T., Lee, V. Y., McNeil, M., Hedrick, J. L., Miller, R. D., Rutt, B. K., Blau, H. M., Sly, J., Barron, A. E.
  AMER CHEMICAL SOC.2010

- **Reprogramming towards pluripotency requires AID-dependent DNA demethylation** *NATURE*
  Bhutani, N., Brady, J. J., Damian, M., Sacco, A., Corbel, S. Y., Blau, H. M.
  2010; 463 (7284): 1042-U57

- **Designing materials to direct stem-cell fate** *NATURE*
  Lutolf, M. P., Gilbert, P. M., Blau, H. M.
  2009; 462 (7272): 433-441

- **Single Cell Phospho-Flow Analysis of Cytokine Stimulation in Human Hematopoietic Progenitors Reveals That G-CSF Acts Directly On Human Hematopoietic Stem Cells.** *51st Annual Meeting and Exposition of the American-Society-of-Hematology*
  Gibbs, K., Gilbert, P., Weissman, I. L., Blau, H. M., Nolan, G. P., Majeti, R.
  AMER SOC HEMATOLOGY.2009: 1398–98

- **Artificial Stem Cell Niches** *ADVANCED MATERIALS*
  Lutolf, M. P., Blau, H. M.
  2009; 21 (32-33): 3255-3268

- **A home away from home: Challenges and opportunities in engineering in vitro muscle satellite cell niches** *DIFFERENTIATION*
  Cosgrove, B. D., Sacco, A., Gilbert, P. M., Blau, H. M.
  2009; 78 (2-3): 185-194

- **Nuclear reprogramming in heterokaryons is rapid, extensive, and bidirectional** *FASEB JOURNAL*
  Palermo, A., Doyonnas, R., Bhutani, N., Pomerantz, J., Alkan, O., Blau, H. M.
  2009; 23 (5): 1431-1440

- **Reprogramming to a muscle fate by fusion recapitulates differentiation** *JOURNAL OF CELL SCIENCE*
  Pomerantz, J. H., Mukherjee, S., Palermo, A. T., Blau, H. M.
  2009; 122 (7): 1045-1053

- **Imaging beta-galactosidase activity in vivo using sequential reporter-enzyme luminescence.** *Methods in molecular biology (Clifton, N.J.)*
  von Degenfeld, G., Wehrman, T. S., Blau, H. M.
  2009; 574: 249-259

- **Perturbation of single hematopoietic stem cell fates in artificial niches** *INTEGRATIVE BIOLOGY*
  Lutolf, M. P., Doyonnas, R., Havenstrite, K., Koleckar, K., Blau, H. M.
  2009; 1 (1): 59-69

- **Self-renewal and expansion of single transplanted muscle stem cells** *NATURE*
  Sacco, A., Doyonnas, R., Kraft, P., Vitorovic, S., Blau, H. M.
  2008; 456 (7221): 502-506

- **Cell therapies for muscular dystrophy** *NEW ENGLAND JOURNAL OF MEDICINE*
  Blau, H. M.
  2008; 359 (13): 1403-1405

- **Reevaluation of the role of VEGF-B suggests a restricted role in the revascularization of the ischemic myocardium** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*
  Li, X., Tjwa, M., Van Hove, I., Enholm, B., Neven, E., Paavonen, K., Jeltsch, M., Juan, T. D., Sievers, R. E., Chorianopoulos, E., Wada, H., Vanwildemeersch, M., Noel, et al
  2008; 28 (9): 1614-1620

- **Extensive fusion of haematopoietic cells with Purkinje neurons in response to chronic inflammation** *NATURE CELL BIOLOGY*
  Johansson, C. B., Youssef, S., Koleckar, K., Holbrook, C., Doyonnas, R., Corbel, S. Y., Steinman, L., Rossi, F. M., Blau, H. M.
  2008; 10 (5): 575-583

- **Myoblasts and macrophages share molecular components that contribute to cell-cell fusion** *JOURNAL OF CELL BIOLOGY*
  Pajcini, K. V., Pomerantz, J. H., Alkan, O., Doyonnas, R., Blau, H. M.
  2008; 180 (5): 1005-1019

- **Hepatic parenchymal replacement in mice by transplanted allogeneic hepatocytes is facilitated by bone marrow transplantation and mediated by CD4 cells** *HEPATOLOGY*
  Streetz, K. L., Doyonnas, R., Grimm, D., Jenkins, D. D., Fuess, S., Perryman, S., Lin, J., Trautwein, C., Shizuru, J., Blau, H., Sylvester, K. G., Kay, M. A.
  2008; 47 (2): 706-718

- **A universal technology for monitoring G-protein-coupled receptor activation in vitro and noninvasively in live animals** *FASEB JOURNAL*
  von Degenfeld, G., Wehrman, T. S., Hammer, M. M., Blau, H. M.
  2007; 21 (14): 3819-3826
- **A novel enzyme complementation-based assay for monitoring G-protein-coupled receptor internalization** *FASEB JOURNAL*
  Hammer, M. M., Wehrman, T. S., Blau, H. M.
  2007; 21 (14): 3827-3834
- **Anne McLaren (1927-2007) - Obituary** *DIFFERENTIATION*
  Blau, H. M.
  2007; 75 (10): 899-901
- **Increased host neuronal survival and motor function in BMT parkinsonian mice: Involvement of immunosuppression** *JOURNAL OF COMPARATIVE NEUROLOGY*
  Keshet, G. I., Tolwani, R. J., Trejo, A., Kraft, P., Doyonnas, R., Clayberger, C., Weimann, J. M., Blau, H. M.
  2007; 504 (6): 690-701
- **Noninvasive optical imaging of cysteine protease activity using fluorescently quenched activity-based probes** *NATURE CHEMICAL BIOLOGY*
  Blum, G., von Degenfeld, G., Merchant, M. J., Blau, H. M., Bogyo, M.
  2007; 3 (10): 668-677
- **Noggin suppression enhances in vitro osteogenesis and accelerates in vivo bone formation** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Wan, D. C., Pomerantz, J. H., Brunet, L. J., Kim, J., Chou, Y., Wu, B. M., Harland, R., Blau, H. M., Longaker, M. T.
  2007; 282 (36): 26450-26459
- **Localization of vascular response to VEGF is not dependent on heparin binding** *FASEB JOURNAL*
  Springer, M. L., Banfi, A., Ye, J., von Degenfeld, G., Kraft, P. E., Saini, S. A., Kapasi, N. K., Blau, H. M.
  2007; 21 (9): 2074-2085
- **Active tissue-specific DNA demethylation conferred by somatic cell nuclei in stable heterokaryons** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Zhang, F., Pomerantz, J. H., Sen, G., Palermo, A. T., Blau, H. M.
  2007; 104 (11): 4395-4400
- **In vivo optical bioluminescence imaging of collagen-supported cardiac cell grafts** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
  Kutschka, I., Chen, I. Y., Kofidis, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Hoyt, G., Pearl, J., Blau, H. M., Gambhir, S. S., Robbins, R. C.
  2007; 26 (3): 273-280
- **Structural and mechanistic insights into nerve growth factor interactions with the TrkA and p75 receptors** *NEURON*
  Wehrman, T., He, X., Raab, B., Dukipatti, A., Blau, H., Garcia, K. C.
  2007; 53 (1): 25-38
- **Noggin suppression enhances in vivo bone formation** *12th Biennial Meeting of the International-Society-Craniofacial-Surgery*
  Wan, D. C., Pomerantz, J. H., Brunet, L. J., Kim, J., Chou, Y., Kwan, M. D., Slater, B. J., Gupta, D. M., Wu, B. M., Harland, R. M., Blau, H. M., Longaker, M. T.
  MEDIMOND S R L.2007: 49–52
- **System for quantifying dynamic protein interactions defines a role for Herceptin in modulating ErbB2 interactions** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Wehrman, T. S., Raab, W. J., Casipit, C. L., Doyonnas, R., Pomerantz, J. H., Blau, H. M.
  2006; 103 (50): 19063-19068
- **Microenvironmental VEGF distribution is critical for stable and functional vessel growth in ischemia** *FASEB JOURNAL*
  von Degenfeld, G., Banfi, A., Springer, M. L., Wagner, R. A., Jacobi, J., Ozawa, C. R., Merchant, M. J., Cooke, J. P., Blau, H. M.
  2006; 20 (14): 2657-?
- **Skeletal myoblasts overexpressing connexin 43 form functional gap junctions with adult cardionnyocytes in vitro and in vivo** *79th Annual Scientific Session of the American-Heart-Association*
  fang, q., Wen, G., Blanco-Bose, W. E., Gu, Y., Sievers, R. E., Springer, M. L., Blau, H. M., Lee, R. J.
  LIPPINCOTT WILLIAMS & WILKINS.2006: 302–

- **Adenoviral human BCL-2 transgene expression attenuates early donor cell death after cardiomyoblast transplantation into ischemic rat hearts** *78th Annual Scientific Session of the American-Heart-Association*
  Kutschka, I., Kofidis, T., Chen, I. Y., von Degenfeld, G., Zwierzchoniewska, M., Hoyt, G., Arai, T., Lebl, D. R., Hendry, S. L., Sheikh, A. Y., Cooke, D. T., Connolly, A., Blau, et al
  LIPPINCOTT WILLIAMS & WILKINS.2006: I174–I180

- **Collagen matrices enhance survival of transplanted cardiomyoblasts and contribute to functional improvement of ischemic rat hearts** *78th Annual Scientific Session of the American-Heart-Association*
  Kutschka, I., Chen, I. Y., Kofidis, T., Arai, T., von Degenfeld, G., Sheikh, A. Y., Hendry, S. L., Pearl, J., Hoyt, G., Sista, R., Yang, P. C., Blau, H. M., Gambhir, et al
  LIPPINCOTT WILLIAMS & WILKINS.2006: I167–I173

- **A brief history of RNAi: the silence of the genes** *FASEB JOURNAL*
  Sen, G. L., Blau, H. M.
  2006; 20 (9): 1293-1299

- **Luminescent imaging of beta-galactosidase activity in living subjects using sequential reporter-enzyme luminescence** *NATURE METHODS*
  Wehrman, T. S., von Degenfeld, G., Krutzik, P., Nolan, G. P., Blau, H. M.
  2006; 3 (4): 295-301

- **In vivo selection of primary and bone-marrow-derived hepatocytes after allogeneic transplantation in mice** *41st Annual Meeting of the European-Association-for-the-Study-of-the-Liver*
  Streetz, K. L., Doyonnas, R., Jenkins, D., Perryman, S., Fuess, S., Lin, S., Shizuru, J., Blau, H., Trautwein, C., Sylvester, K., Kay, M. A.
  ELSEVIER SCIENCE BV.2006: S33–S33

- **IGF-I increases bone marrow contribution to adult skeletal muscle and enhances the fusion of myelomonocytic precursors** *JOURNAL OF CELL BIOLOGY*
  Sacco, A., Doyonnas, R., LaBarge, M. A., Hammer, M. M., Kraft, P., Blau, H. M.
  2005; 171 (3): 483-492

- **Optimizing techniques for tracking transplanted stem cells in vivo** *STEM CELLS*
  Brazelton, T. R., Blau, H. M.
  2005; 23 (9): 1251-1265

- **In vivo selection of transplanted allogeneic hepatocytes and bone-marrow derived hepatocytes after allogeneic bone-marrow transplantation in mice** *56th Annual Meeting of the American-Association-for-the-Study-of-Liver-Diseases*
  Streetz, K., Doyonnas, R., Jenkins, D., Lin, S., Shizuru, J., Blau, H., Sylvester, K., Kay, M.
  WILEY-BLACKWELL.2005: 370A–371A

- **Cell therapy for hepatocyte replacement through bone marrow derived myelomonocytic progenitors** *91st Annual Clinical Congress of the American-College-of-Surgeons*
  Sylvester, K. G., Jenkins, D., Streetz, K., Doyannis, R., Perryman, S., Kay, M., Blau, H.
  ELSEVIER SCIENCE INC.2005: S47–S48

- **Noggin suppression enhances osteogenesis of murine osteoblasts** *91st Annual Clinical Congress of the American-College-of-Surgeons*
  Wan, D. C., Pomerantz, J., Nacamuli, R., Siedhoff, M., Blau, H., Longaker, M. T.
  ELSEVIER SCIENCE INC.2005: S62–S62

- **mRNA translation is not a prerequisite for small interfering RNA-mediated mRNA cleavage** *DIFFERENTIATION*
  Sen, G. L., Wehrman, T. S., Blau, H. M.
  2005; 73 (6): 287-293

- **Enzymatic detection of protein translocation** *NATURE METHODS*
  Wehrman, T. S., Casipit, C. L., Gewertz, N. M., Blau, H. M.
  2005; 2 (7): 521-527

- **Argonaute 2/RISC resides in sites of mammalian mRNA decay known as cytoplasmic bodies** *NATURE CELL BIOLOGY*
  Sen, G. L., Blau, H. M.
  2005; 7 (6): 633-U28

- **Critical role of microenvironmental factors in angiogenesis.** *Current atherosclerosis reports*
  Banfi, A., von Degenfeld, G., Blau, H. M.

2005; 7 (3): 227-234

- **Overexpression of dimethylarginine dimethylaminohydrolase reduces tissue asymmetric dimethylarginine levels and enhances angiogenesis** *CIRCULATION*
  Jacobi, J., Sydow, K., von Degenfeld, G., Zhang, Y., Dayoub, H., Wang, B. Y., Patterson, A. J., Kimoto, M., Blau, H. M., Cooke, J. P.
  2005; 111 (11): 1431-1438

- **Bone marrow contribution to skeletal muscle: A physiological response to stress** *DEVELOPMENTAL BIOLOGY*
  Palermo, A. T., LaBarge, M. A., Doyonnas, R., Pomerantz, J., Blau, H. M.
  2005; 279 (2): 336-344

- **Hematopoietic contribution to skeletal muscle regeneration by myelomonocytic precursors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Doyonnas, R., LaBarge, M. A., Sacco, A., Charlton, C., Blau, H. M.
  2004; 101 (37): 13507-13512

- **Nuclear reprogramming: A key to stem cell function in regenerative medicine** *NATURE CELL BIOLOGY*
  Pomerantz, J., Blau, H. M.
  2004; 6 (9): 810-816

- **Microenvironmental VEGF concentration, not total dose, determines a threshold between normal and aberrant angiogenesis** *JOURNAL OF CLINICAL INVESTIGATION*
  Ozawa, C. R., Banfi, A., Glazer, N. L., Thurston, G., Springer, M. L., Kraft, P. E., McDonald, D. M., Blau, H. M.
  2004; 113 (4): 516-527

- **Discordant effects of a soluble VEGF receptor on wound healing and angiogenesis** *GENE THERAPY*
  Jacobi, J., Tam, B. Y., Sundram, U., von Degenfeld, G., Blau, H. M., Kuo, C. J., Cooke, J. P.
  2004; 11 (3): 302-309

- **Restriction enzyme-generated siRNA (REGS) vectors and libraries** *NATURE GENETICS*
  Sen, G., Wehrman, T. S., MYERS, J. W., Blau, H. M.
  2004; 36 (2): 183-189

- **Restriction enzyme-generated siRNA (REGS) vectors and libraries.** *Nature Genetics*
  Sen, G., Wehrman TS, Myers JW, Blau HM.
  2004; 36 (2): 183-9

- **Nuclear reprogramming: a key to stem cell function in regenerative medicine.** *Nature Cell Biology*
  Pomerantz, J., Blau, HM
  2004; 6 (9): 810-816

- **Hematopoietic contribution to skeletal muscle regeneration by myelomonocytic precursors.** *PNAS*
  Doyonnas R, LaBarge MA, Sacco A, Charlton C, Blau HM
  2004; 100 (37): 13507-13512

- **Contribution of hematopoietic stem cells to skeletal muscle** *NATURE MEDICINE*
  Corbel, S. Y., Lee, A., Yi, L., Duenas, J., Brazelton, T. R., Blau, H. M., Rossi, F. M.
  2003; 9 (12): 1528-1532

- **Stable reprogrammed heterokaryons form spontaneously in Purkinje neurons after bone marrow transplant** *NATURE CELL BIOLOGY*
  Weimann, J. M., Johansson, C. B., Trejo, A., Blau, H. M.
  2003; 5 (11): 959-966

- **Significant differences among skeletal muscles in the incorporation of bone marrow-derived cells** *DEVELOPMENTAL BIOLOGY*
  Brazelton, T. R., Nystrom, M., Blau, H. M.
  2003; 262 (1): 64-74

- **Myoblast-mediated gene transfer for therapeutic angiogenesis and arteriogenesis** *BRITISH JOURNAL OF PHARMACOLOGY*
  von Degenfeld, G., Banfi, A., Springer, M. L., Blau, H. M.
  2003; 140 (4): 620-626

- **Localized arteriole formation directly adjacent to the site of VEGF-induced angiogenesis in muscle** *MOLECULAR THERAPY*
  Springer, M. L., Ozawa, C. R., Banfi, A., Kraft, P. E., Ip, T. K., Brazelton, T. R., Blau, H. M.
  2003; 7 (4): 441-449

- **Contribution of transplanted bone marrow cells to Purkinje neurons in human adult brains** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Weimann, J. M., Charlton, C. A., Brazelton, T. R., Hackman, R. C., Blau, H. M.
  2003; 100 (4): 2088-2093

- **Stable reprogrammed heterokaryons form spontaneously in Purkinje neurons after bone marrow transplant.** *Nature Cell Biology*
  Weimann JM, Johansson CB, Trejo A, Blau HM
  2003; 5 (11): 959 - 966

- **Contribution of transplanted bone marrow cells to Purkinje neurons in human adult brains.** *PNAS*
  Weimann JM, Charlton CA, Brazelton TR, Hackman RC, Blau HM
  2003; 100 (4): 2088-93

- **Biological progression from adult bone marrow to mononucleate muscle stem cell to multinucleate muscle fiber in response to injury** *CELL*
  LaBarge, M. A., Blau, H. M.
  2002; 111 (4): 589-601

- **Something in the eye of the beholder** *SCIENCE*
  Blau, H., Brazelton, T., Keshet, G., Rossi, F.
  2002; 298 (5592): 361-362

- **A twist of fate** *NATURE*
  Blau, H. M.
  2002; 419 (6906): 437-437

- **RIP2, a checkpoint in myogenic differentiation** *MOLECULAR AND CELLULAR BIOLOGY*
  Munz, B., Hildt, E., Springer, M. L., Blau, H. M.
  2002; 22 (16): 5879-5886

- **VEGF gene delivery for treatment of ischemic cardiovascular disease** *TRENDS IN CARDIOVASCULAR MEDICINE*
  Koransky, M. L., Robbins, R. C., Blau, H. M.
  2002; 12 (3): 108-114

- **Transient production of alpha-smooth muscle actin by skeletal myoblasts during differentiation in culture and following intramuscular implantation** *CELL MOTILITY AND THE CYTOSKELETON*
  Springer, M. L., Ozawa, C. R., Blau, H. M.
  2002; 51 (4): 177-186

- **Protein-protein interactions monitored in mammalian cells via complementation of beta-lactamase enzyme fragments** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Wehrman, T., Kleaveland, B., Her, J. H., Balint, R. F., Blau, H. M.
  2002; 99 (6): 3469-3474

- **Gene delivery to muscle.** *Current protocols in human genetics / editorial board, Jonathan L. Haines ... [et al.]*
  Springer, M. L., Rando, T. A., Blau, H. M.
  2002; Chapter 13: Unit13 4-?

- **Myoblast-mediated gene transfer for therapeutic angiogenesis** *GENE THERAPY METHODS*
  Banfi, A., Springer, M. L., Blau, H. M.
  2002; 346: 145-157

- **The evolving concept of a stem cell: Entity or function?** *CELL*
  Blau, H. M., Brazelton, T. R., Weimann, J. M.
  2001; 105 (7): 829-841

- **Not the usual suspects: the unexpected sources of tissue regeneration** *JOURNAL OF CLINICAL INVESTIGATION*

Springer, M. L., Brazelton, T. R., Blau, H. M.
2001; 107 (11): 1355-1356

- **Laminin-induced change in conformation of preexisting alpha 7 beta 1 integrin signals secondary myofiber formation** *DEVELOPMENTAL BIOLOGY*
  Blanco-Bose, W. E., Blau, H. M.
  2001; 233 (1): 148-160
- **The well-tempered vessel** *NATURE MEDICINE*
  Blau, H. M., Banfi, A.
  2001; 7 (5): 532-534
- **Purification of mouse primary myoblasts based on alpha 7 integrin expression** *EXPERIMENTAL CELL RESEARCH*
  Blanco-Bose, W. E., Yao, C. C., Kramer, R. H., Blau, H. M.
  2001; 265 (2): 212-220
- **In vivo monitoring of myoblast transplantation into rat myocardium.** *journal of heart and lung transplantation*
  Koransky, M. L., Ip, T. K., Wu, S., Cao, Y., Berry, G., Contag, C., Blau, H., Robbins, R.
  2001; 20 (2): 188-189
- **From marrow to brain: Expression of neuronal phenotypes in adult mice** *SCIENCE*
  Brazelton, T. R., Rossi, F. M., Keshet, G. I., Blau, H. M.
  2000; 290 (5497): 1775-1779
- **Transcriptional control: Rheostat converted to on/off switch** *MOLECULAR CELL*
  Rossi, F. M., Kringstein, A. M., Spicher, A., Guicherit, O. M., Blau, H. M.
  2000; 6 (3): 723-728
- **VEGF gene delivery to myocardium - Deleterious effects of unregulated expression** *CIRCULATION*
  Lee, R. J., Springer, M. L., Blanco-Bose, W. E., Shaw, R., Ursell, P. C., Blau, H. M.
  2000; 102 (8): 898-901
- **Induction of angiogenesis by implantation of encapsulated primary myoblasts expressing vascular endothelial growth factor** *JOURNAL OF GENE MEDICINE*
  Springer, M. L., Hortelano, G., Bouley, D. M., Wong, J., Kraft, P. E., Blau, H. M.
  2000; 2 (4): 279-288
- **Neural cell adhesion molecule (NCAM) and myoblast fusion** *DEVELOPMENTAL BIOLOGY*
  Charlton, C. A., Mohler, W. A., Blau, H. M.
  2000; 221 (1): 112-119
- **Interaction blues: protein interactions monitored in live mammalian cells by beta-galactosidase complementation** *TRENDS IN CELL BIOLOGY*
  Rossi, F. M., Blakely, B. T., Blau, H. M.
  2000; 10 (3): 119-122
- **Epidermal growth factor receptor dimerization monitored in live cells** *NATURE BIOTECHNOLOGY*
  Blakely, B. T., Rossi, F. M., Tillotson, B., Palmer, M., Estelles, A., Blau, H. M.
  2000; 18 (2): 218-222
- **Angiogenesis monitored by perfusion with a space-filling microbead suspension** *MOLECULAR THERAPY*
  Springer, M. L., Ip, T. K., Blau, H. M.
  2000; 1 (1): 82-87
- **A novel means of drug delivery: Myoblast-mediated gene therapy and regulatable retroviral vectors** *ANNUAL REVIEW OF PHARMACOLOGY AND TOXICOLOGY*
  Ozawa, C. R., Springer, M. L., Blau, H. M.
  2000; 40: 295-317
- **Monitoring protein-protein interactions in live mammalian cells by beta-galactosidase complementation** *APPLICATIONS OF CHIMERIC GENES AND HYBRID PROTEINS, PT C*
  Rossi, F. M., Blakely, B. T., Charlton, C. A., Blau, H. M.
  2000; 328: 231-251

- **Analysis of immune responses to varicella tester viral proteins induced by DNA vaccination** *ANTIVIRAL RESEARCH*
  Abendroth, A., Slobedman, B., Springer, M. L., Blau, H. M., Arvin, A. M.
  1999; 44 (3): 179-192
- **The phosphoprotein protein PEA-15 inhibits Fas- but increases TNF-R1-mediated caspase-8 activity and apoptosis** *DEVELOPMENTAL BIOLOGY*
  Estelles, A., Charlton, C. A., Blau, H. M.
  1999; 216 (1): 16-28
- **Plasticity of cell fate: Insights from heterokaryons** *SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY*
  Blau, H. M., Blakely, B. T.
  1999; 10 (3): 267-272
- **Monitoring EGF receptor dimerization in live cells**
  Blakely, B. T., Rossi, F. M., Blau, H. M.
  FEDERATION AMER SOC EXP BIOL.1999: A1468–A1468
- **Transcriptional regulation of gene expression: Graded and threshold responses.**
  Rossi, F. M., Kringstein, A. K., Guicherit, O. M., Spicher, A., Blau, H. M.
  FEDERATION AMER SOC EXP BIOL.1999: A1460–A1460
- **Tet B or not tet B: Advances in tetracycline-inducible gene expression - Commentary** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Blau, H. M., Rossi, F. M.
  1999; 96 (3): 797-799
- **Expression of Bcl-XS alters cytokinetics and decreases clonogenic survival in K12 rat colon carcinoma cells** *ONCOGENE*
  Fridman, J. S., Rehemtulla, A., Hofmann, A., Blau, H. M., Maybaum, J.
  1998; 17 (23): 2981-2991
- **Highly conserved RNA sequences that are sensors of environmental stress** *MOLECULAR AND CELLULAR BIOLOGY*
  Spicher, A., Guicherit, O. M., Duret, L., Aslanian, A., Sanjines, E. M., Denko, N. C., Giaccia, A. J., Blau, H. M.
  1998; 18 (12): 7371-7382
- **Tetracycline-regulatable factors with distinct dimerization domains allow reversible growth inhibition by p16** *NATURE GENETICS*
  Rossi, F. M., Guicherit, O. M., Spicher, A., Kringstein, A. M., Fatyol, K., Blakely, B. T., Blau, H. M.
  1998; 20 (4): 389-393
- **Graded transcriptional response to different concentrations of a single transactivator** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kringstein, A. M., Rossi, F. M., Hofmann, A., Blau, H. M.
  1998; 95 (23): 13670-13675
- **VEGF gene delivery to muscle: Potential role for vasculogenesis in adults** *MOLECULAR CELL*
  Springer, M. L., Chen, A. S., Kraft, P. E., Bednarski, M., Blau, H. M.
  1998; 2 (5): 549-558
- **Graded or threshold transcriptional responses are determined by the interplay of activators and repressors on the same promoter.**
  Rossi, F. M., Kringstein, A. K., Blau, H. M.
  AMER SOC CELL BIOLOGY.1998: 193A–193A
- **Monitoring EGF receptor dimerization in live cells**
  Blakely, B. T., Rossi, F. M., Blau, H. M.
  AMER SOC CELL BIOLOGY.1998: 233A–233A
- **Alpha 7 integrin is a differentiation marker for skeletal and smooth muscle**
  Yao, C. C., Blanco-Bose, W. E., Blau, H. M., Kramer, R. H.
  AMER SOC CELL BIOLOGY.1998: 416A–416A
- **Recent advances in inducible gene expression systems** *CURRENT OPINION IN BIOTECHNOLOGY*
  Rossi, F. M., Blau, H. M.

1998; 9 (5): 451-456

- **Inhibition of solid tumor growth by Fas ligand-expressing myoblasts** *SOMATIC CELL AND MOLECULAR GENETICS*
  Springer, M. L., Kraft, P. E., Blau, H. M.
  1998; 24 (5): 281-289
- **Regulation of EGF receptor dimerization monitored in live cells**
  Rossi, F. M., Blakely, B. T., Blau, H. M.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.1998: 166–66
- **A retroviral vector system containing a tet-inducible marker allows rapid selection of cells displaying tet-responsive human growth hormone expression**
  Kringstein, A. M., Rossi, F. M., Blau, H. M.
  ACADEMIC PRESS INC ELSEVIER SCIENCE.1998: 176–76
- **Immune response and myoblasts that express Fas ligand** *SCIENCE*
  Kang, S. M., Hofmann, A., Le, D., Springer, M. L., Stock, P. G., Blau, H. M.
  1997; 278 (5341): 1322-1324
- **Monitoring protein-protein interactions in intact eukaryotic cells by beta-galactosidase complementation**
  Rossi, F. M., Charlton, C. A., Blakely, B. T., Blau, H. M.
  AMER SOC CELL BIOLOGY.1997: 699–699
- **The fate of individual myoblasts after transplantation into muscles of DMD patients** *NATURE MEDICINE*
  Gussoni, E., Blau, H. M., KUNKEL, L. M.
  1997; 3 (9): 970-977
- **Monitoring protein-protein interactions in intact eukaryotic cells by beta-galactosidase complementation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Rossi, F., Charlton, C. A., Blau, H. M.
  1997; 94 (16): 8405-8410
- **Fusion competence of myoblasts rendered genetically null for N-cadherin in culture** *JOURNAL OF CELL BIOLOGY*
  Charlton, C. A., Mohler, W. A., Radice, G. L., HYNES, R. O., Blau, H. M.
  1997; 138 (2): 331-336
- **Death of solid tumor cells induced by Fas ligand expressing primary myoblasts** *SOMATIC CELL AND MOLECULAR GENETICS*
  Hofmann, A., Blau, H. M.
  1997; 23 (4): 249-257
- **Gene therapy: Progress, problems, prospects.** *NATURE MEDICINE*
  Blau, H., Khavari, P.
  1997; 3 (6): 612-613
- **High-efficiency retroviral infection of primary myoblasts** *SOMATIC CELL AND MOLECULAR GENETICS*
  Springer, M. L., Blau, H. M.
  1997; 23 (3): 203-209
- **Myoblast implantation in Duchenne muscular dystrophy: The San Francisco study** *MUSCLE & NERVE*
  MILLER, R. G., Sharma, K. R., PAVLATH, G. K., Gussoni, E., MYNHIER, M., LANCTOT, A. M., Greco, C. M., Steinman, L., Blau, H. M.
  1997; 20 (4): 469-478
- **Rapid plasmid minipreps in microplate format from culture to gel** *BIOTECHNIQUES*
  Mohler, W. A., Blau, H. M.
  1997; 22 (3): 388-390
- **Methods for myoblast transplantation** *METHODS IN CELL BIOLOGY, VOL 52*
  Rando, T. A., Blau, H. M.
  1997; 52: 261-?
- **Genetic analysis of alpha(4) integrin functions in the development of mouse skeletal muscle** *JOURNAL OF CELL BIOLOGY*
  Yang, J. T., Rando, T. A., Mohler, W. A., Rayburn, H., Blau, H. M., HYNES, R. O.

1996; 135 (3): 829-835

- **Gene expression and cell fusion analyzed by lacZ complementation in mammalian cells** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Mohler, W. A., Blau, H. M.
  1996; 93 (22): 12423-12427
- **Myoblast-mediated expression of colony stimulating factor-1 (CSF-1) in the cytokine-deficient op/op mouse** *SOMATIC CELL AND MOLECULAR GENETICS*
  Dhawan, J., Rando, T. A., Elson, S. E., Lee, F., Stanley, E. R., Blau, H. M.
  1996; 22 (5): 363-381
- **Defective myogenesis in NFB-s mutant associated with a saturable suppression of MYF5 activity** *SOMATIC CELL AND MOLECULAR GENETICS*
  Rohrer, D. K., Blau, H. M.
  1996; 22 (5): 349-361
- **Spectrophotometric quantitation of tissue culture cell number in any medium** *BIOTECHNIQUES*
  Mohler, W. A., Charlton, C. A., Blau, H. M.
  1996; 21 (2): 260-?
- **A method to codetect introduced genes and their products in gene therapy protocols** *NATURE BIOTECHNOLOGY*
  Gussoni, E., Wang, Y. M., Fraefel, C., MILLER, R. G., Blau, H. M., Geller, A. I., KUNKEL, L. M.
  1996; 14 (8): 1012-1016
- **Rapid retroviral delivery of tetracycline-inducible genes in a single autoregulatory cassette** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Hofmann, A., Nolan, G. P., Blau, H. M.
  1996; 93 (11): 5185-5190
- **MUSCLE-MEDIATED GENE-THERAPY** *NEW ENGLAND JOURNAL OF MEDICINE*
  Blau, H. M., Springer, M. L.
  1995; 333 (23): 1554-1556
- **GENE-THERAPY - A NOVEL FORM OF DRUG-DELIVERY** *NEW ENGLAND JOURNAL OF MEDICINE*
  Blau, H. M., Springer, M. L.
  1995; 333 (18): 1204-1207
- **THE FATE OF MYOBLASTS FOLLOWING TRANSPLANTATION INTO MATURE MUSCLE** *EXPERIMENTAL CELL RESEARCH*
  Rando, T. A., PAVLATH, G. K., Blau, H. M.
  1995; 220 (2): 383-389
- **TETRACYCLINE-REGULATED GENE-EXPRESSION FOLLOWING DIRECT GENE-TRANSFER INTO MOUSE SKELETAL-MUSCLE** *SOMATIC CELL AND MOLECULAR GENETICS*
  Dhawan, J., Rando, T. A., ELSON, S. L., Bujard, H., Blau, H. M.
  1995; 21 (4): 233-240
- **Systemic delivery of recombinant proteins by genetically engineered myoblasts** *Conference on Delivery of Protein Drugs - The Next 10-Years*
  Dhawan, J., Blau, H. M.
  HARWOOD ACADEMIC PUBL GMBH.1995: 351–364
- **TRANSIENT IMMUNOSUPPRESSIVE TREATMENT LEADS TO LONG-TERM RETENTION OF ALLOGENEIC MYOBLASTS IN HYBRID MYOFIBERS** *JOURNAL OF CELL BIOLOGY*
  PAVLATH, G. K., Rando, T. A., Blau, H. M.
  1994; 127 (6): 1923-1932
- **SPECIFIC T-CELL RECEPTOR GENE REARRANGEMENTS AT THE SITE OF MUSCLE DEGENERATION IN DUCHENNE MUSCULAR-DYSTROPHY** *JOURNAL OF IMMUNOLOGY*
  Gussoni, E., PAVLATH, G. K., MILLER, R. G., Panzara, M. A., Powell, M., Blau, H. M., Steinman, L.
  1994; 153 (10): 4798-4805
- **FAST MYOSIN HEAVY-CHAINS EXPRESSED IN SECONDARY MAMMALIAN MUSCLE-FIBERS AT THE TIME OF THEIR INCEPTION** *JOURNAL OF CELL SCIENCE*

Cho, M., Hughes, S. M., KARSCHMIZRACHI, I., Travis, M., Leinwand, L. A., Blau, H. M.
1994; 107: 2361-2371

- **PRIMARY MOUSE MYOBLAST PURIFICATION, CHARACTERIZATION, AND TRANSPLANTATION FOR CELL-MEDIATED GENE-THERAPY** *JOURNAL OF CELL BIOLOGY*
  Rando, T. A., Blau, H. M.
  1994; 125 (6): 1275-1287
- **MEMBRANE-BOUND NEOMYCIN PHOSPHOTRANSFERASE CONFERS DRUG-RESISTANCE IN MAMMALIAN-CELLS - A MARKER FOR HIGH-EFFICIENCY TARGETING OF GENES ENCODING SECRETED AND CELL-SURFACE PROTEINS** *SOMATIC CELL AND MOLECULAR GENETICS*
  Mohler, W. A., Blau, H. M.
  1994; 20 (3): 153-162
- **WOMEN IN BIOMEDICINE - ENCOURAGEMENT** *SCIENCE*
  Long, S. R., ZAKIAN, V., Allen, N. S., Arvin, A. M., Bakken, A., BEEMON, K., Belfort, M., Bennett, K. L., Bissell, M. J., Blackburn, E., Blau, H., Carlson, M., Chandler, et al
  1994; 263 (5152): 1357-1358
- **TUMOR SUPPRESSION BY RNA FROM THE 3' UNTRANSLATED REGION OF ALPHA-TROPOMYOSIN** *CELL*
  Rastinejad, F., Conboy, M. J., Rando, T. A., Blau, H. M.
  1993; 75 (6): 1107-1117
- **MUSCULAR-DYSTROPHY - MUSCLING IN ON GENE-THERAPY** *NATURE*
  Blau, H. M.
  1993; 364 (6439): 673-675
- **MYOBLASTS IN PATTERN-FORMATION AND GENE-THERAPY** *TRENDS IN GENETICS*
  Blau, H. M., Dhawan, J., PAVLATH, G. K.
  1993; 9 (8): 269-274
- **3 SLOW MYOSIN HEAVY-CHAINS SEQUENTIALLY EXPRESSED IN DEVELOPING MAMMALIAN SKELETAL-MUSCLE** *DEVELOPMENTAL BIOLOGY*
  Hughes, S. M., Cho, M., KARSCHMIZRACHI, I., Travis, M., Silberstein, L., Leinwand, L. A., Blau, H. M.
  1993; 158 (1): 183-199
- **EVIDENCE FOR MYOBLAST-EXTRINSIC REGULATION OF SLOW MYOSIN HEAVY-CHAIN EXPRESSION DURING MUSCLE-FIBER FORMATION IN EMBRYONIC-DEVELOPMENT** *JOURNAL OF CELL BIOLOGY*
  Cho, M., Webster, S. G., Blau, H. M.
  1993; 121 (4): 795-810
- **GENETIC COMPLEMENTATION REVEALS A NOVEL REGULATORY ROLE FOR 3' UNTRANSLATED REGIONS IN GROWTH AND DIFFERENTIATION** *CELL*
  Rastinejad, F., Blau, H. M.
  1993; 72 (6): 903-917
- **SELECTIVE MYOD AND MYOGENIN MESSENGER-RNA EXPRESSION IN FAST AND SLOW MUSCLE IS UNDER NEURONAL CONTROL**
  Peterson, C. A., Blau, H. M., Hughes, S. M.
  WILEY-BLACKWELL.1993: 169–169
- **MYOBLAST MEDIATED GENE-THERAPY** *Tissue Engineering Meeting*
  Blau, H. M., PAVLATH, G. K., Dhawan, J.
  BIRKHAUSER BOSTON.1993: 37–47
- **MYOBLAST TRANSFER IN DMD - PROBLEMS IN THE INTERPRETATION OF EFFICIENCY - A REPLY** *MUSCLE & NERVE*
  Blau, H. M., PAVLATH, G. K., Gussoni, E., Steinman, L., MILLER, R. G., Sharma, K.
  1992; 15 (10): 1209-1210
- **How cells know their place.** *Nature*
  Blau, H. M.
  1992; 358 (6384): 284-285

- **BETA-ENOLASE IS A MARKER OF HUMAN MYOBLAST HETEROGENEITY PRIOR TO DIFFERENTIATION** *DEVELOPMENTAL BIOLOGY*
  Peterson, C. A., Cho, M., Rastinejad, F., Blau, H. M.
  1992; 151 (2): 626-629

- **NORMAL DYSTROPHIN TRANSCRIPTS DETECTED IN DUCHENNE MUSCULAR-DYSTROPHY PATIENTS AFTER MYOBLAST TRANSPLANTATION** *NATURE*
  Gussoni, E., PAVLATH, G. K., LANCTOT, A. M., Sharma, K. R., MILLER, R. G., Steinman, L., Blau, H. M.
  1992; 356 (6368): 435-438

- **CLONING MUSCLE ISOFORMS OF NEURAL CELL-ADHESION MOLECULE USING AN EPISOMAL SHUTTLE VECTOR** *SOMATIC CELL AND MOLECULAR GENETICS*
  Pan, L. C., Margolskee, R. F., Blau, H. M.
  1992; 18 (2): 163-177

- **MUSCLE-FIBER PATTERN IS INDEPENDENT OF CELL LINEAGE IN POSTNATAL RODENT DEVELOPMENT** *CELL*
  Hughes, S. M., Blau, H. M.
  1992; 68 (4): 659-671

- **DIFFERENTIATION REQUIRES CONTINUOUS ACTIVE CONTROL** *ANNUAL REVIEW OF BIOCHEMISTRY*
  Blau, H. M.
  1992; 61: 1213-1230

- **SYSTEMIC DELIVERY OF HUMAN GROWTH-HORMONE BY INJECTION OF GENETICALLY ENGINEERED MYOBLASTS** *SCIENCE*
  Dhawan, J., Pan, L. C., PAVLATH, G. K., Travis, M. A., LANCTOT, A. M., Blau, H. M.
  1991; 254 (5037): 1509-1512

- **MODULATION OF MHC CLASS-II ANTIGEN EXPRESSION IN HUMAN MYOBLASTS AFTER TREATMENT WITH IFN-GAMMA** *NEUROLOGY*
  Mantegazza, R., Hughes, S. M., Mitchell, D., Travis, M., Blau, H. M., Steinman, L.
  1991; 41 (7): 1128-1132

- **DIFFERENTIATION REQUIRES CONTINUOUS REGULATION** *JOURNAL OF CELL BIOLOGY*
  Blau, H. M., Baltimore, D.
  1991; 112 (5): 781-783

- **Cell lineage in vertebrate development.** *Current opinion in cell biology*
  Blau, H. M., Hughes, S. M.
  1990; 2 (6): 981-985

- **Cell lineage in vertebrate development** *CURRENT OPINION IN CELL BIOLOGY*
  Blau, H. M., Hughes, S. M.
  1990; 2 (6): 981-985

- **ACCELERATED AGE-RELATED DECLINE IN REPLICATIVE LIFE-SPAN OF DUCHENNE MUSCULAR-DYSTROPHY MYOBLASTS - IMPLICATIONS FOR CELL AND GENE-THERAPY** *SOMATIC CELL AND MOLECULAR GENETICS*
  Webster, C., Blau, H. M.
  1990; 16 (6): 557-565

- **STEROIDS INDUCE ACETYLCHOLINE-RECEPTORS ON CULTURED HUMAN MUSCLE - IMPLICATIONS FOR MYASTHENIA-GRAVIS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Kaplan, I., Blakely, B. T., PAVLATH, G. K., Travis, M., Blau, H. M.
  1990; 87 (20): 8100-8104

- **NEGATIVE CONTROL OF THE HELIX-LOOP-HELIX FAMILY OF MYOGENIC REGULATORS IN THE NFB MUTANT**
  Peterson, C. A., Gordon, H., Hall, Z. W., Paterson, B. M., Blau, H. M.
  LIPPINCOTT WILLIAMS & WILKINS.1990: LR3–LR3

- **NEGATIVE CONTROL OF THE HELIX-LOOP-HELIX FAMILY OF MYOGENIC REGULATORS IN THE NFB MUTANT** *CELL*
  Peterson, C. A., Gordon, H., Hall, Z. W., Paterson, B. M., Blau, H. M.
  1990; 62 (3): 493-502

- **MIGRATION OF MYOBLASTS ACROSS BASAL LAMINA DURING SKELETAL-MUSCLE DEVELOPMENT** *NATURE*
  Hughes, S. M., Blau, H. M.
  1990; 345 (6273): 350-353

- **DIFFERENTIATION OF FIBER TYPES IN ANEURAL MUSCULATURE OF THE PRENATAL RAT HINDLIMB** *DEVELOPMENTAL BIOLOGY*
  Condon, K., Silberstein, L., Blau, H. M., Thompson, W. J.
  1990; 138 (2): 275-295

- **DEVELOPMENT OF MUSCLE-FIBER TYPES IN THE PRENATAL RAT HINDLIMB** *DEVELOPMENTAL BIOLOGY*
  Condon, K., Silberstein, L., Blau, H. M., Thompson, W. J.
  1990; 138 (2): 256-274

- **EFFECT OF CELL HISTORY ON RESPONSE TO HELIX LOOP HELIX FAMILY OF MYOGENIC REGULATORS** *NATURE*
  Schafer, B. W., Blakely, B. T., Darlington, G. J., Blau, H. M.
  1990; 344 (6265): 454-458

- **LOCALIZATION OF MUSCLE GENE-PRODUCTS IN NUCLEAR DOMAINS - DOES THIS CONSTITUTE A PROBLEM FOR MYOBLAST THERAPY** *INTERNATIONAL CONF ON MYOBLAST TRANSFER THERAPY*
  Blau, H. M., PAVLATH, G. K., Rich, K., Webster, S. G.
  PLENUM PRESS DIV PLENUM PUBLISHING CORP.1990: 167–172

- **HOW FIXED IS THE DIFFERENTIATED STATE - LESSONS FROM HETEROKARYONS** *TRENDS IN GENETICS*
  Blau, H. M.
  1989; 5 (8): 268-272

- **INVIVO AGING OF HUMAN-FIBROBLASTS DOES NOT ALTER NUCLEAR PLASTICITY IN HETEROKARYONS** *SOMATIC CELL AND MOLECULAR GENETICS*
  PAVLATH, G. K., Chiu, C. P., Blau, H. M.
  1989; 15 (3): 191-202

- **LOCALIZATION OF MUSCLE GENE-PRODUCTS IN NUCLEAR DOMAINS** *NATURE*
  PAVLATH, G. K., Rich, K., Webster, S. G., Blau, H. M.
  1989; 337 (6207): 570-573

- **IMPROVED MEDIA FOR NORMAL HUMAN-MUSCLE SATELLITE CELLS - SERUM-FREE CLONAL GROWTH AND ENHANCED GROWTH WITH LOW SERUM** *IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY*
  HAM, R. G., STCLAIR, J. A., Webster, C., Blau, H. M.
  1988; 24 (8): 833-844

- **HIERARCHIES OF REGULATORY GENES MAY SPECIFY MAMMALIAN DEVELOPMENT** *CELL*
  Blau, H. M.
  1988; 53 (5): 673-674

- **TUMOR NECROSIS FACTOR INHIBITS HUMAN MYOGENESIS INVITRO** *MOLECULAR AND CELLULAR BIOLOGY*
  Miller, S. C., Ito, H., Blau, H. M., Torti, F. M.
  1988; 8 (6): 2295-2301

- **INVIVO SYSTEM FOR CHARACTERIZING CLONAL VARIATION AND TISSUE-SPECIFIC GENE REGULATORY FACTORS BASED ON FUNCTION** *JOURNAL OF CELL BIOLOGY*
  Hardeman, E. C., Minty, A., BENTONVOSMAN, P., Kedes, L., Blau, H. M.
  1988; 106 (4): 1027-1034

- **MUSCLE-CELL COMPONENTS DICTATE HEPATOCYTE GENE-EXPRESSION AND THE DISTRIBUTION OF THE GOLGI-APPARATUS IN HETEROKARYONS** *GENES & DEVELOPMENT*
  Miller, S. C., PAVLATH, G. K., Blakely, B. T., Blau, H. M.
  1988; 2 (3): 330-340

- **FAST MUSCLE-FIBERS ARE PREFERENTIALLY AFFECTED IN DUCHENNE MUSCULAR-DYSTROPHY** *CELL*
  Webster, C., Silberstein, L., Hays, A. P., Blau, H. M.
  1988; 52 (4): 503-513

- **ISOLATION OF HUMAN MYOBLASTS WITH THE FLUORESCENCE-ACTIVATED CELL SORTER** *EXPERIMENTAL CELL RESEARCH*
  Webster, C., PAVLATH, G. K., Parks, D. R., Walsh, F. S., Blau, H. M.
  1988; 174 (1): 252-265

- **REINNERVATION OF MUSCLE-FIBER TYPES IN THE NEWBORN RAT SOLEUS** *JOURNAL OF NEUROSCIENCE*
  Soileau, L. C., Silberstein, L., Blau, H. M., Thompson, W. J.
  1987; 7 (12): 4176-4194

- **DIFFERENTIAL PATTERNS OF TRANSCRIPT ACCUMULATION DURING HUMAN MYOGENESIS** *MOLECULAR AND CELLULAR BIOLOGY*
  Gunning, P., Hardeman, E., Wade, R., Ponte, P., Bains, W., Blau, H. M., Kedes, L.
  1987; 7 (11): 4100-4114

- **1,25-DIHYDROXYVITAMIN-D3 RECEPTORS AND HORMONAL RESPONSES IN CLONED HUMAN SKELETAL-MUSCLE CELLS** *ENDOCRINOLOGY*
  Costa, E. M., Blau, H. M., Feldman, D.
  1986; 119 (5): 2214-2220

- **INSULIN AND INSULIN-LIKE GROWTH-FACTOR RECEPTORS AND RESPONSES IN CULTURED HUMAN-MUSCLE CELLS** *AMERICAN JOURNAL OF PHYSIOLOGY*
  Shimizu, M., Webster, C., Morgan, D. O., Blau, H. M., Roth, R. A.
  1986; 251 (5): E611-E615

- **THE PATTERN OF ACTIN EXPRESSION IN HUMAN FIBROBLAST X MOUSE MUSCLE HETEROKARYONS SUGGESTS THAT HUMAN-MUSCLE REGULATORY FACTORS ARE PRODUCED** *CELL*
  Hardeman, E. C., Chiu, C. P., Minty, A., Blau, H. M.
  1986; 47 (1): 123-130

- **METABOLIC PROPERTIES OF HUMAN ACETYLCHOLINE-RECEPTORS CAN BE CHARACTERIZED ON CULTURED HUMAN-MUSCLE** *EXPERIMENTAL CELL RESEARCH*
  Kaplan, I. D., Blau, H. M.
  1986; 166 (2): 379-390

- **DEVELOPMENTAL PROGRESSION OF MYOSIN GENE-EXPRESSION IN CULTURED MUSCLE-CELLS** *CELL*
  Silberstein, L., Webster, S. G., Travis, M., Blau, H. M.
  1986; 46 (7): 1075-1081

- **THE MYOBLAST DEFECT IDENTIFIED IN DUCHENNE MUSCULAR-DYSTROPHY IS NOT A PRIMARY EXPRESSION OF THE DMD MUTATION** *HUMAN GENETICS*
  Webster, C., Filippi, G., Rinaldi, A., Mastropaolo, C., Tondi, M., Siniscalco, M., Blau, H. M.
  1986; 74 (1): 74-80

- **2-LEVEL REGULATION OF CARDIAC ACTIN GENE-TRANSCRIPTION - MUSCLE-SPECIFIC MODULATING FACTORS CAN ACCUMULATE BEFORE GENE ACTIVATION** *MOLECULAR AND CELLULAR BIOLOGY*
  Minty, A., Blau, H., Kedes, L.
  1986; 6 (6): 2137-2148

- **EXPRESSION OF MUSCLE GENES IN HETEROKARYONS DEPENDS ON GENE DOSAGE** *JOURNAL OF CELL BIOLOGY*
  PAVLATH, G. K., Blau, H. M.
  1986; 102 (1): 124-130

- **MULTILEVEL REGULATION OF GENE-EXPRESSION IN HUMAN MYOGENESIS - DISSOCIATION OF FACTORS RESPONSIBLE FOR MODULATION AND ACTIVATION AND EVIDENCE FOR NON-COORDINATE EXPRESSION**
  Kedes, L., Minty, A., Wade, R., Gunning, P., Hardeman, E., Blau, H., BENTONVOSMAN, P., Boxer, L., Erba, H., Feldman, D., Gahlmann, R., Miwa, T., Muscat, et al
  WILEY-LISS.1986: 16–16

- **EVIDENCE FOR DEFECTIVE MYOBLASTS IN DUCHENNE MUSCULAR-DYSTROPHY** *ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY*
  Blau, H. M., Webster, C., PAVLATH, G. K., Chiu, C. P.
  1985; 182: 85-110

- **5-AZACYTIDINE PERMITS GENE ACTIVATION IN A PREVIOUSLY NONINDUCIBLE CELL TYPE** *CELL*
  Chiu, C. P., Blau, H. M.
  1985; 40 (2): 417-424

- **PLASTICITY OF THE DIFFERENTIATED STATE** *SCIENCE*
  Blau, H. M., PAVLATH, G. K., Hardeman, E. C., Chiu, C. P., Silberstein, L., Webster, S. G., Miller, S. C., Webster, C.
  1985; 230 (4727): 758-766

- **MUSCLE GENE-EXPRESSION IN HETEROKARYONS** *ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY*
  Blau, H. M., Chiu, C. P., PAVLATH, G. K., Webster, C.
  1985; 182: 231-247

- **CARDIAC ACTIN IS THE MAJOR ACTIN GENE-PRODUCT IN SKELETAL-MUSCLE CELL-DIFFERENTIATION INVITRO** *MOLECULAR AND CELLULAR BIOLOGY*
  Bains, W., Ponte, P., Blau, H., Kedes, L.
  1984; 4 (8): 1449-1453

- **REPROGRAMMING CELL-DIFFERENTIATION IN THE ABSENCE OF DNA-SYNTHESIS** *CELL*
  Chiu, C. P., Blau, H. M.
  1984; 37 (3): 879-887

- **ISOLATION AND CHARACTERIZATION OF FULL-LENGTH CDNA CLONES FOR HUMAN ALPHA-ACTIN, BETA-ACTIN AND GAMMA-ACTIN MESSENGER-RNAS - SKELETAL BUT NOT CYTOPLASMIC ACTINS HAVE AN AMINO-TERMINAL CYSTEINE THAT IS SUBSEQUENTLY REMOVED** *MOLECULAR AND CELLULAR BIOLOGY*
  Gunning, P., Ponte, P., Okayama, H., Engel, J., Blau, H., Kedes, L.
  1983; 3 (5): 787-795

- **CYTOPLASMIC ACTIVATION OF HUMAN NUCLEAR GENES IN STABLE HETEROCARYONS** *CELL*
  Blau, H. M., Chiu, C. P., Webster, C.
  1983; 32 (4): 1171-1180

- **DIFFERENTIATION PROPERTIES OF PURE POPULATIONS OF HUMAN DYSTROPHIC MUSCLE-CELLS** *EXPERIMENTAL CELL RESEARCH*
  Blau, H. M., Webster, C., Chiu, C. P., Guttman, S., Chandler, F.
  1983; 144 (2): 495-503

- **THYROGLOBULIN-INDEPENDENT, CELL-MEDIATED CYTO-TOXICITY OF HUMAN-EYE MUSCLE-CELLS IN TISSUE-CULTURE BY LYMPHOCYTES OF A PATIENT WITH GRAVES OPHTHALMOPATHY** *LIFE SCIENCES*
  Blau, H. M., Kaplan, I., Tao, T., KRISS, J. P.
  1983; 32 (1-2): 45-53

- **ALPHA-SKELETAL AND ALPHA-CARDIAC ACTIN GENES ARE COEXPRESSED IN ADULT HUMAN SKELETAL-MUSCLE AND HEART** *MOLECULAR AND CELLULAR BIOLOGY*
  Gunning, P., Ponte, P., Blau, H., Kedes, L.
  1983; 3 (11): 1985-1995

- **HUMAN ACTIN GENES ARE SINGLE COPY FOR ALPHA-SKELETAL AND ALPHA-CARDIAC ACTIN BUT MULTICOPY FOR BETA-CYTOSKELETAL AND GAMMA-CYTOSKELETAL GENES - 3' UNTRANSLATED REGIONS ARE ISOTYPE SPECIFIC BUT ARE CONSERVED IN EVOLUTION** *MOLECULAR AND CELLULAR BIOLOGY*
  Ponte, P., Gunning, P., Blau, H., Kedes, L.
  1983; 3 (10): 1783-1791

- **DEFECTIVE MYOBLASTS IDENTIFIED IN DUCHENNE MUSCULAR-DYSTROPHY** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*
  Blau, H. M., Webster, C., PAVLATH, G. K.
  1983; 80 (15): 4856-4860

- **ISOLATION AND CHARACTERIZATION OF HUMAN-MUSCLE CELLS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA-BIOLOGICAL SCIENCES*
  Blau, H. M., Webster, C.
  1981; 78 (9): 5623-5627

- **MORPHOGENESIS OF THE SILKMOTH CHORION - PATTERNS OF DISTRIBUTION AND INSOLUBILIZATION OF THE STRUCTURAL PROTEINS** *DEVELOPMENTAL BIOLOGY*
  Blau, H. M., Kafatos, F. C.
  1979; 72 (2): 211-225
- **MANIPULATION OF MYOGENESIS INVITRO - REVERSIBLE INHIBITION BY DMSO** *CELL*
  Blau, H. M., Epstein, C. J.
  1979; 17 (1): 95-108
- **SECRETORY KINETICS IN FOLLICULAR CELLS OF SILKMOTHS DURING EGGSHELL FORMATION** *JOURNAL OF CELL BIOLOGY*
  Blau, H. M., Kafatos, F. C.
  1978; 78 (1): 131-151