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 and 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 and 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

- U.S. National Medal of Science, President Biden, US government (2025)
- Lifetime Achievement Award, International Society for Regenerative Biology (2024)
- Member, Royal Society (2024)

- 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, 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

Ziqi Dong, Harutiun Nalbandian Geymonat

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

- **Molecular evolution of animal aging.** *The EMBO journal*
  Nussey, D. H., d'Adda di Fagagna, F., Bardin, A. J., Blau, H., Brunet, A., Bulavin, D. V., Guo, L., Hara, E., Junker, J. P., Gorbunova, V., Mittelbrunn, M., Rera, M., Reznick, et al
  2026
- **Telomere shortening in laminopathic dilated cardiomyopathy.** *NPJ Regenerative medicine*
  Chang, A. C., Pardon, G., Chang, A. C., Wang, C., Termglinchan, V., Kirillova, A., Nicin, L., Birnbaum, F., Laquerrière, A., Bonne, G., Wu, J., Blau, H. M.
  2026
- **Integrative transcriptomic profiling links telomere dysfunction to cGAS-STING activation in heart failure signatures in mice and humans.** *Cardiovascular research*

Brandt, M., Khraisat, S., Luo, Q., Mayerle, M., Raaz, U., Tsao, P., Münzel, T., Lurz, P., Wenzel, P., Blau, H. M.
2026

- **Inhibition of 15-hydroxy prostaglandin dehydrogenase promotes cartilage regeneration.** *Science (New York, N.Y.)*
  Singla, M., Wang, Y. X., Monti, E., Bedi, Y., Agarwal, P., Su, S., Ancel, S., Hermsmeier, M., Devisetti, N., Pandey, A., Bakooshli, M. A., Palla, A. R., Goodman, et al
  2025: eadx6649

- **From Cell Reprogramming to Tissue Rejuvenation: Countering Aging by Targeting a Gerozyme.** *Annual review of pharmacology and toxicology*
  Blau, H. M., Porpiglia, E.
  2025

- **Multiomic profiling reveals that prostaglandin E2 reverses aged muscle stem cell dysfunction, leading to increased regeneration and strength.** *Cell stem cell*
  Wang, Y. X., Palla, A. R., Ho, A. T., Robinson, D. C., Ravichandran, M., Markov, G. J., Mai, T., Still, C. 2., Balsubramani, A., Nair, S., Holbrook, C. A., Yang, A. V., Kraft, et al
  2025

- **Selective inhibition of stromal mechanosensing suppresses cardiac fibrosis.** *Nature*
  Cho, S., Rhee, S., Madl, C. M., Caudal, A., Thomas, D., Kim, H., Kojic, A., Shin, H. S., Mahajan, A., Jahng, J. W., Wang, X., Thai, P. N., Paik, et al
  2025

- **Sex-biased human thymic architecture guides T cell development through spatially defined niches.** *Developmental cell*
  Stankiewicz, L. N., Salim, K., Flaschner, E. A., Wang, Y. X., Edgar, J. M., Durland, L. J., Lin, B. Z., Bingham, G. C., Major, M. C., Jones, R. D., Blau, H. M., Rideout, E. J., Levings, et al
  2024

- **Neuromuscular impairment at different stages of human sarcopenia.** *Journal of cachexia, sarcopenia and muscle*
  Sarto, F., Franchi, M. V., McPhee, J. S., Stashuk, D. W., Paganini, M., Monti, E., Rossi, M., Sirago, G., Zampieri, S., Motanova, E. S., Valli, G., Moro, T., Paoli, et al
  2024

- **Hydrogel biomaterials that stiffen and soften on demand reveal that skeletal muscle stem cells harbor a mechanical memory.** *Proceedings of the National Academy of Sciences of the United States of America*
  Madl, C. M., Wang, Y. X., Holbrook, C. A., Su, S., Shi, X., Byfield, F. J., Wicki, G., Flaig, I. A., Blau, H. M.
  2024; 121 (35): e2406787121

- **Tracking single hiPSC-derived cardiomyocyte contractile function using CONTRAX an efficient pipeline for traction force measurement.** *Nature communications*
  Pardon, G., Vander Roest, A. S., Chirikian, O., Birnbaum, F., Lewis, H., Castillo, E. A., Wilson, R., Denisin, A. K., Blair, C. A., Holbrook, C., Koleckar, K., Chang, A. C., Blau, et al
  2024; 15 (1): 5427

- **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. C. Y., Chang, A. C. 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. T. 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. C. 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. T. V., Blau, H. M.
  2018; 20 (1): 6–7

- **An objective comparison of cell-tracking algorithms** *NATURE METHODS*
  Ulman, V., Maska, M., Magnusson, K. E. 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

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