



Irving Weissman

Director, Stanford Institute for Stem Cell Biology and Regenerative Medicine, Virginia & D.K. Ludwig Professor for Clinical Investigation in Cancer Research, Professor of Developmental Biology and, by courtesy, of Biology

Pathology - Pathology Stem Cell Institute

 NIH Biosketch available Online

CONTACT INFORMATION

• Alternate Contact

Linda Quinn - Administrative Associate

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Tel 650-723-6520

Bio

ACADEMIC APPOINTMENTS

- Professor, Pathology - Pathology Stem Cell Institute
- Professor, Developmental Biology
- Professor (By courtesy), Biology
- Member, Bio-X
- Member, Cardiovascular Institute
- Director, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Institute of Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, (2003- present)

HONORS AND AWARDS

- Election to the Institute of Medicine, National Academy of Sciences (1989)
- Award for Outstanding Contribution to Cancer Biology, Pasarow Foundation (1989)
- Bass Award, Society of Neurological Surgeons (2003)
- Jessie Stevenson Kovalenko Medal, National Academy of Sciences Council (2004)
- Alan Cranston Awardee, Alliance for Aging Research (2004)
- Medal for Distinguished Contributions to Biomedical Research, New York Academy of Medicine (2004)
- Rabbi Shai Shacknai Memorial Prize in Immunology and Cancer Research, The Lautenberg Center for General and Tumor Immunology (2004)
- The Linus Pauling Medal for Outstanding Contributions to Science, Stanford University (2005)
- Jeffrey Modell "Dare to Dream" Award, Jeffrey Modell Foundation (2005)
- The Commonwealth Club of California 18th Annual Distinguished Citizen Award, Commonwealth Club of California (2006)

- Honorary Doctorate, Columbia University (2006)
- American-Italian Cancer Foundation Prize for Scientific Excellence in Medicine, American-Italian Cancer Foundation (2006)
- John Scott Award, City of Philadelphia (2006)
- Honorary Doctorate, Mount Sinai School of Medicine (2007)
- I & H Wachter Award, I & H Wachter Foundation (2007)
- Honoree of the Arthritis Foundation of Northern California Chapter's 2007 Tribute Dinner, Arthritis Foundation (2007)
- Robert Koch Award, Koch Foundation (2008)
- Fellow, American Association for the Advancement of Science (2008)
- Rosentiel Award, Brandeis University (2009)
- Passano Award, The Passano Foundation (2009)
- Honorary Director, Center for Biotech/BioMedicine and Shenzhen Key Lab of Gene & Antibody Therapy, Graduate School of Shenzhen, Tsinghua University, China (2009)
- The Cockrell Foundation Award in Clinical or Translational Research, The Methodist Hospital Research Institute (2009)
- Simon M. Shubitz Award for Excellence in the Field of Cancer Research, University of Chicago (2010)
- Honorary Professor, Peking Union Medical College, China (2010)
- Honorary Investigator, State Key Laboratory of Experimental Hematology, Chinese Academy of Medical Sciences and Peking Union Medical College, China (2010)
- National Academy of Sciences Council, National Academy of Sciences (2011)

PROFESSIONAL EDUCATION

- MD, Stanford University , Medicine (1965)
- BS, Montana State College , Pre-med (1961)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Weissman directs a research group consisting of graduate students, medical student-scientists, and postdoctoral fellows, all of whom study stem cell biology and regenerative medicine. He has trained and supervised hundreds of students and fellows, authored more than 750 scientific articles and has numerous awards and honorary degrees for his research accomplishments. He is an elected member of the National Academy of Sciences, the Institute of Medicine, the American Academy of Arts and Sciences, the American Philosophical Society, and many other societies. He is past president of the American Association of Immunologists [1994] and the International Society of Stem Cell Research [2009]. Dr. Weissman is an expert in the field of hematopoiesis, leukemia, and hematopoietic stem cells [HSC], and most recently, the clonal events leading from HSC to leukemia stem cells.. His research also encompasses the phylogeny and developmental biology of the cells that make up the blood-forming and immune systems. He has a laboratory at Hopkins Marine Station of Stanford University, where he studies the histocompatibility systems in colonial protochordate, a system which he proposed evolved to prevent predatory germline stem cell lineages from passing from one individual to another in multi-individual colonies that share a common extracorporeal blood vascular system; only histocompatible stem cells can colonize allogeneic natural parabionts. His laboratory was first to identify and isolate the blood-forming stem cell [HSC] from mice, and has defined, by lineage analysis, the stages of development between the stem cells and mature progeny. His laboratories have also discovered the human HSC, a human brain-forming stem cell population, mouse skeletal muscle stem cells, and an osteochondral stem cell in mice. He has worked in the area of cancer since 1977, and is a leader in the field of cancer stem cell biology. In recent years his work has included studying the potential of CD47 as a cancer therapeutic and identifying cancer stem cells from a variety of blood and solid cancers. He and his colleagues have found that CD47, a 'don't eat me signal' is highly expressed beginning in the latter stages of progression of cancer stem cells from the benign to the highly malignant state, and this counteracts 'eat me' signals on preneoplastic and highly malignant cancer cells, presumably as part of the evolution of cancer clones driven by self-renewing subsets of cells in the cancer. This research brings into focus the primary role of phagocytic cells such as macrophages of the innate immune

system, in tumor surveillance. Dr. Weissman was a founder of three companies, SyStemix, Cellerant, and Stem Cells, Inc., all focused on bringing stem cell therapies into the clinic, and earlier was on the founding SABs of Amgen, DNAX, and T Cell Sciences.

CLINICAL TRIALS

- A Comprehensive Study to Isolate Tumor-initiating Cells From Human Epithelial Malignancies, Not Recruiting
- Microarray Analysis of Gene Expression and Identification of Progenitor Cells in Lung Carcinoma, Not Recruiting

Teaching

COURSES

2016-17

- Landmark Papers in Immunology and Stem Cell Biology: How to Pose Experimental Questions: STEMREM 281 (Win)

STANFORD ADVISEES

Med Scholar Project Advisor

Benson George, Gunsagar Gulati

Postdoctoral Faculty Sponsor

Chiara Anselmi, Mona Khalaj, Victoria Mascetti, Jinyi Xiang

Doctoral Dissertation Advisor (AC)

Amira Barkal, Tim Chai, Benson George, Gunsagar Gulati, Joy He, Daniel Wesche, Phoebe Yiu

Postdoctoral Research Mentor

Mona Khalaj

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)
- Cancer Biology (Phd Program)
- Developmental Biology (Phd Program)
- Immunology (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **intestinal stem-cell self-renewal.** *Nature*
Yan, K. S., Janda, C. Y., Chang, J., Zheng, G. X., Larkin, K. A., Luca, V. C., Chia, L. A., Mah, A. T., Han, A., Terry, J. M., Ootani, A., Roelf, K., Lee, et al
2017; 545 (7653): 238-242
- **Non-equivalence of Wnt and R-spondin ligands during Lgr5(+) intestinal stem-cell self-renewal** *NATURE*
Yan, K. S., Janda, C. Y., Chang, J., Zheng, G. X., Larkin, K. A., Luca, V. C., Chia, L. A., Mah, A. T., Han, A., Terry, J. M., Ootani, A., Roelf, K., Lee, et al
2017; 545 (7653): 238-?
- **Disrupting the CD47-SIRP alpha anti-phagocytic axis by a humanized anti-CD47 antibody is an efficacious treatment for malignant pediatric brain tumors** *SCIENCE TRANSLATIONAL MEDICINE*
Gholamin, S., Mitra, S. S., Feroze, A. H., Liu, J., Kahn, S. A., Zhang, M., Esparza, R., Richard, C., Ramaswamy, V., Remke, M., Volkmer, A. K., Willingham, S., Ponnuswami, et al
2017; 9 (381)

- **Breaking Down the Barriers to Precision Cancer Nanomedicine** *TRENDS IN BIOTECHNOLOGY*
von Roemeling, C., Jian, W., Chan, C. K., Weissman, I. L., Kim, B. Y.
2017; 35 (2): 159-171
- **Pharmacological rescue of diabetic skeletal stem cell niches.** *Science translational medicine*
Tevlin, R., Seo, E. Y., Marecic, O., McArdle, A., Tong, X., Zimdahl, B., Malkovskiy, A., Sinha, R., Gulati, G., Li, X., Wearda, T., Morganti, R., Lopez, et al
2017; 9 (372)
- **Practical ImmunoPET radiotracer design considerations for human immune checkpoint imaging.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Mayer, A. T., Natarajan, A., Gordon, S., Maute, R., McCracken, M., Ring, A., Weissman, I., Gambhir, S. S.
2016
- **Evidence that beta 7 Integrin Regulates Hematopoietic Stem Cell Homing and Engraftment Through Interaction with MAdCAM-1** *STEM CELLS AND DEVELOPMENT*
Murakami, J. L., Xu, B., Franco, C. B., Hu, X., Galli, S. J., Weissman, I. L., Chen, C.
2016; 25 (1): 18-26
- **LYVE1 Marks the Divergence of Yolk Sac Definitive Hemogenic Endothelium from the Primitive Erythroid Lineage** *CELL REPORTS*
Lee, L. K., Ghorbanian, Y., Wang, W., Wang, Y., Kim, Y. J., Weissman, I. L., Inlay, M. A., Mikkola, H. K.
2016; 17 (9): 2286-2298
- **Inhibition of Apoptosis Overcomes Stage-Related Compatibility Barriers to Chimera Formation in Mouse Embryos.** *Cell stem cell*
Masaki, H., Kato-Itoh, M., Takahashi, Y., Umino, A., Sato, H., Ito, K., Yanagida, A., Nishimura, T., Yamaguchi, T., Hirabayashi, M., Era, T., Loh, K. M., Wu, et al
2016; 19 (5): 587-592
- **Myeloid Cell Origins, Differentiation, and Clinical Implications.** *Microbiology spectrum*
Weiskopf, K., Schnorr, P. J., Pang, W. W., Chao, M. P., Chhabra, A., Seita, J., Feng, M., Weissman, I. L.
2016; 4 (5)
- **Hematopoietic stem cell transplantation in immunocompetent hosts without radiation or chemotherapy.** *Science translational medicine*
Chhabra, A., Ring, A. M., Weiskopf, K., Schnorr, P. J., Gordon, S., Le, A. C., Kwon, H., Ring, N. G., Volkmer, J., Ho, P. Y., Tseng, S., Weissman, I. L., Shizuru, et al
2016; 8 (351): 351ra105-?
- **Antibody Therapy Targeting CD47 and CD271 Effectively Suppresses Melanoma Metastasis in Patient-Derived Xenografts.** *Cell reports*
Ngo, M., Han, A., Lakatos, A., Sahoo, D., Hachey, S. J., Weiskopf, K., Beck, A. H., Weissman, I. L., Boiko, A. D.
2016; 16 (6): 1701-1716
- **CD47-blocking antibodies restore phagocytosis and prevent atherosclerosis.** *Nature*
Kojima, Y., Volkmer, J., McKenna, K., Civelek, M., Lusic, A. J., Miller, C. L., DiRenzo, D., Nanda, V., Ye, J., Connolly, A. J., Schadt, E. E., Quertermous, T., Betancur, et al
2016; 536 (7614): 86-90
- **Mapping the Pairwise Choices Leading from Pluripotency to Human Bone, Heart, and Other Mesoderm Cell Types** *CELL*
Loh, K. M., Chen, A., Koh, P. W., Deng, T. Z., Sinha, R., Tsai, J. M., Barkal, A. A., Shen, K. Y., Jain, R., Morganti, R. M., Shyh-Chang, N., Fernhoff, N. B., George, et al
2016; 166 (2): 451-467
- **CD47-blocking immunotherapies stimulate macrophage-mediated destruction of small-cell lung cancer** *JOURNAL OF CLINICAL INVESTIGATION*
Weiskopf, K., Jahchan, N. S., Schnorr, P. J., Cristea, S., Ring, A. M., Maute, R. L., Volkmer, A. K., Volkmer, J., Liu, J., Lim, J. S., Yang, D., Seitz, G., Thuyen Nguyen, et al
2016; 126 (7): 2610-2620
- **Developmental cell death programs license cytotoxic cells to eliminate histocompatible partners** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Corey, D. M., rosental, B., Kowarsky, M., Sinha, R., Ishizuka, K. J., Palmeri, K. J., Quake, S. R., Voskoboynik, A., Weissman, I. L.
2016; 113 (23): 6520-6525
- **Identification of tumorigenic cells and therapeutic targets in pancreatic neuroendocrine tumors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

- Krampitz, G. W., George, B. M., Willingham, S. B., Volkmer, J., Weiskopf, K., Jahchan, N., Newman, A. M., Sahoo, D., Zemek, A. J., Yanovsky, R. L., Nguyen, J. K., Schnorr, P. J., Mazur, et al
2016; 113 (16): 4464-4469
- **Anti-CD47 Treatment Stimulates Phagocytosis of Glioblastoma by M1 and M2 Polarized Macrophages and Promotes M1 Polarized Macrophages In Vivo** *PLOS ONE*
Zhang, M., Hutter, G., Kahn, S. A., Azad, T. D., Gholamin, S., Xu, C. Y., Liu, J., Achrol, A. S., Richard, C., Sommerkamp, P., Schoen, M. K., McCracken, M. N., Majeti, et al
2016; 11 (4)
 - **New tools for studying microglia in the mouse and human CNS.** *Proceedings of the National Academy of Sciences of the United States of America*
Bennett, M. L., Bennett, F. C., Liddelow, S. A., Ajami, B., Zamanian, J. L., Fernhoff, N. B., Mulinyawe, S. B., Bohlen, C. J., Adil, A., Tucker, A., Weissman, I. L., Chang, E. F., Li, et al
2016; 113 (12): E1738-46
 - **New tools for studying microglia in the mouse and human CNS** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Bennett, M. L., Bennett, F. C., Liddelow, S. A., Ajami, B., Zamanian, J. L., Fernhoff, N. B., Mulinyawe, S. B., Bohlen, C. J., Adil, A., Tucker, A., Weissman, I. L., Chang, E. F., Li, et al
2016; 113 (12): E1738-E1746
 - **Dynamic Patterns of Clonal Evolution in Tumor Vasculature Underlie Alterations in Lymphocyte-Endothelial Recognition to Foster Tumor Immune Escape.** *Cancer research*
Corey, D. M., Rinkevich, Y., Weissman, I. L.
2016; 76 (6): 1348-1353
 - **A Mechanism for Somatic Brain Mosaicism** *CELL*
Weissman, I. L., Gage, F. H.
2016; 164 (4): 593-595
 - **Hoxb5 marks long-term haematopoietic stem cells and reveals a homogenous perivascular niche** *NATURE*
Chen, J. Y., Miyamishi, M., Wang, S. K., Yamazaki, S., Sinha, R., Kao, K. S., Seita, J., Sahoo, D., Nakauchi, H., Weissman, I. L.
2016; 530 (7589): 223-?
 - **Training the next generation of biomedical investigators in glycosciences** *JOURNAL OF CLINICAL INVESTIGATION*
Agre, P., Bertozzi, C., Bissell, M., Campbell, K. P., Cummings, R. D., Desai, U. R., Estes, M., Flotte, T., Fogleman, G., Gage, F., Ginsburg, D., Gordon, J. I., Hart, et al
2016; 126 (2): 405-408
 - **Surveillance of Stem Cell Fate and Function: A System for Assessing Cell Survival and Collagen Expression In Situ** *TISSUE ENGINEERING PART A*
Walmsley, G. G., Senarath-Yapa, K., Wearda, T. L., Menon, S., Hu, M. S., Duscher, D., Maan, Z. N., Tsai, J. M., Zielins, E. R., Weissman, I. L., Gurtner, G. C., Lorenz, H. P., Longaker, et al
2016; 22 (1-2): 31-40
 - **Engineering high-affinity PD-1 variants for optimized immunotherapy and immuno-PET imaging** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Maute, R. L., Gordon, S. R., Mayer, A. T., McCracken, M. N., Natarajan, A., Ring, N. G., Kimura, R., Tsai, J. M., Manglik, A., Kruse, A. C., Gambhir, S. S., Weissman, I. L., Ring, et al
2015; 112 (47): E6506-E6514
 - **Neural Placode Tissue Derived From Myelomeningocele Repair Serves as a Viable Source of Oligodendrocyte Progenitor Cells.** *Neurosurgery*
Mitra, S. S., Feroze, A. H., Gholamin, S., Richard, C., Esparza, R., Zhang, M., Azad, T. D., Alrfaei, B., Kahn, S. A., Hutter, G., Guzman, R., Creasey, G. H., Plant, et al
2015; 77 (5): 794-802
 - **Evolution of normal and neoplastic tissue stem cells: progress after Robert Hooke** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Weissman, I.
2015; 370 (1680)
 - **Skeletal Stem Cell Niche Aberrancies Underlie Impaired Fracture Healing in a Mouse Model of Type 2 Diabetes.** *Plastic and reconstructive surgery*

- Tevlin, R., Young Seo, E., Marecic, O., Wearda, T., Mc Ardle, A., Januszzyk, M., Gulati, G., Maan, Z., Hu, M. S., Walmsley, G. G., Gurtner, G. C., Chan, C. K., Weissman, et al
2015; 136 (4): 73-?
- **Sleep disruption impairs haematopoietic stem cell transplantation in mice** *NATURE COMMUNICATIONS*
Rolls, A., Pang, W. W., Ibarra, I., Colas, D., Bonnavion, P., Korin, B., Heller, H. C., Weissman, I. L., de Lecea, L.
2015; 6
 - **Molecular Pathways: Activating T Cells after Cancer Cell Phagocytosis from Blockade of CD47 "Don't Eat Me" Signals.** *Clinical cancer research*
McCracken, M. N., Cha, A. C., Weissman, I. L.
2015; 21 (16): 3597-3601
 - **Identification and characterization of an injury-induced skeletal progenitor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Marecic, O., Tevlin, R., McArdle, A., Seo, E. Y., Wearda, T., Duldulao, C., Walmsley, G. G., Nguyen, A., Weissman, I. L., Chan, C. K., Longaker, M. T.
2015; 112 (32): 9920-9925
 - **Prospective isolation of human erythroid lineage-committed progenitors** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Mori, Y., Chen, J. Y., Pluvinage, J. V., Seita, J., Weissman, I. L.
2015; 112 (31): 9638-9643
 - **Expression of TCR-V peptides by murine bone marrow cells does not identify T-cell progenitors** *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE*
Abbey, J. L., Karsunky, H., Serwold, T., Papathanasiou, P., Weissman, I. L., O'Neill, H. C.
2015; 19 (8): 1956-1964
 - **Stem cells are units of natural selection for tissue formation, for germline development, and in cancer development** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Weissman, I. L.
2015; 112 (29): 8922-8928
 - **"Velcro" Engineering of High Affinity CD47 Ectodomain as Signal Regulatory Protein alpha(SIRP alpha) Antagonists That Enhance Antibody-dependent Cellular Phagocytosis** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Ho, C. C., Guo, N., Sockolovsky, J. T., Ring, A. M., Weiskopf, K., Oezkan, E., Mori, Y., Weissman, I. L., Garcia, K. C.
2015; 290 (20): 12650-12663
 - **"Velcro" engineering of high affinity CD47 ectodomain as signal regulatory protein a (SIRPa) antagonists that enhance antibody-dependent cellular phagocytosis.** *journal of biological chemistry*
Ho, C. C., Guo, N., Sockolovsky, J. T., Ring, A. M., Weiskopf, K., Özkan, E., Mori, Y., Weissman, I. L., Garcia, K. C.
2015; 290 (20): 12650-12663
 - **Skin fibrosis. Identification and isolation of a dermal lineage with intrinsic fibrogenic potential.** *Science*
Rinkevich, Y., Walmsley, G. G., Hu, M. S., Maan, Z. N., Newman, A. M., Drukker, M., Januszzyk, M., Krampitz, G. W., Gurtner, G. C., Lorenz, H. P., Weissman, I. L., Longaker, M. T.
2015; 348 (6232)
 - **CD14-expressing cancer cells establish the inflammatory and proliferative tumor microenvironment in bladder cancer.** *Proceedings of the National Academy of Sciences of the United States of America*
Cheah, M. T., Chen, J. Y., Sahoo, D., Contreras-Trujillo, H., Volkmer, A. K., Scheeren, F. A., Volkmer, J., Weissman, I. L.
2015; 112 (15): 4725-4730
 - **Tuning Cytokine Receptor Signaling by Re-orienting Dimer Geometry with Surrogate Ligands** *CELL*
Moraga, I., Wernig, G., Wilmes, S., Gryshkova, V., Richter, C. P., Hong, W., Sinha, R., Guo, F., Fabionar, H., Wehrman, T. S., Krutzik, P., Demharter, S., Plo, et al
2015; 160 (6): 1196-1208
 - **Macrophages are critical effectors of antibody therapies for cancer.** *mAbs*
Weiskopf, K., Weissman, I. L.
2015; 7 (2): 303-310
 - **Live Fibroblast Harvest Reveals Surface Marker Shift In Vitro** *TISSUE ENGINEERING PART C-METHODS*

- Walmsley, G. G., Rinkevich, Y., Hu, M. S., Montoro, D. T., Lo, D. D., McArdle, A., Maan, Z. N., Morrison, S. D., Duscher, D., Whittam, A. J., Wong, V. W., Weissman, I. L., Gurtner, et al
2015; 21 (3): 314-321
- **Macrophages eat cancer cells using their own calreticulin as a guide: Roles of TLR and Btk.** *Proceedings of the National Academy of Sciences of the United States of America*
Feng, M., Chen, J. Y., Weissman-Tsukamoto, R., Volkmer, J., Ho, P. Y., McKenna, K. M., Cheshier, S., Zhang, M., Guo, N., Gip, P., Mitra, S. S., Weissman, I. L.
2015; 112 (7): 2145-2150
 - **Botryllus schlosseri, an emerging model for the study of aging, stem cells, and mechanisms of regeneration** *INVERTEBRATE REPRODUCTION & DEVELOPMENT*
Voskoboynik, A., Weissman, I. L.
2015; 59: 33-38
 - **Identification and specification of the mouse skeletal stem cell.** *Cell*
Chan, C. K., Seo, E. Y., Chen, J. Y., Lo, D., McArdle, A., Sinha, R., Tevlin, R., Seita, J., Vincent-Tompkins, J., Wearda, T., Lu, W., Senarath-Yapa, K., Chung, et al
2015; 160 (1-2): 285-298
 - **SCNT-Derived ESCs with Mismatched Mitochondria Trigger an Immune Response in Allogeneic Hosts.** *Cell stem cell*
Deuse, T., Wang, D., Stubbendorff, M., Itagaki, R., Grabosch, A., Greaves, L. C., Alawi, M., Grünewald, A., Hu, X., Hua, X., Velden, J., Reichenspurner, H., Robbins, et al
2015; 16 (1): 33-38
 - **Epigenetic and in vivo comparison of diverse MSC sources reveals an endochondral signature for human hematopoietic niche formation.** *Blood*
Reinisch, A., Etchart, N., Thomas, D., Hofmann, N. A., Fruehwirth, M., Sinha, S., Chan, C. K., Senarath-Yapa, K., Seo, E., Wearda, T., Hartwig, U. F., Beham-Schmid, C., Trajanoski, et al
2015; 125 (2): 249-260
 - **Lift NIH restrictions on chimera research.** *Science (New York, N.Y.)*
Sharma, A., Sebastiano, V., Scott, C. T., Magnus, D., Koyano-Nakagawa, N., Garry, D. J., Witte, O. N., Nakauchi, H., Wu, J. C., Weissman, I. L., Wu, S. M.
2015; 350 (6261): 640
 - **Hematopoietic stem cells, regenerative medicine, and leukemogenesis** *Thomas' Hematopoietic Cell Transplantation*
Weissman, I.
2015; 5: 25-57
 - **Pre-Clinical Development of a Humanized Anti-CD47 Antibody with Anti-Cancer Therapeutic Potential.** *PloS one*
Liu, J., Wang, L., Zhao, F., Tseng, S., Narayanan, C., Shura, L., Willingham, S., Howard, M., Prohaska, S., Volkmer, J., Chao, M., Weissman, I. L., Majeti, et al
2015; 10 (9)
 - **Pericytes are progenitors for coronary artery smooth muscle.** *eLife*
Volz, K. S., Jacobs, A. H., Chen, H. I., Poduri, A., McKay, A. S., Riordan, D. P., Kofler, N., Kitajewski, J., Weissman, I., Red-Horse, K.
2015; 4
 - **Upregulation of CD11A on Hematopoietic Stem Cells Denotes the Loss of Long-Term Reconstitution Potential** *STEM CELL REPORTS*
Fathman, J. W., Fernhoff, N. B., Seita, J., Chao, C., Scarfone, V. M., Weissman, I. L., Inlay, M. A.
2014; 3 (5): 707-715
 - **Endoscopic molecular imaging of human bladder cancer using a CD47 antibody** *SCIENCE TRANSLATIONAL MEDICINE*
Pan, Y., Volkmer, J., Mach, K. E., Rouse, R. V., Liu, J., Sahoo, D., Chang, T. C., Metzner, T. J., Kang, L., van de Rijn, M., Skinner, E. C., Gambhir, S. S., Weissman, et al
2014; 6 (260)
 - **In utero depletion of fetal hematopoietic stem cells improves engraftment after neonatal transplantation in mice.** *Blood*
Derderian, S. C., Togarrati, P. P., King, C., Moradi, P. W., Reynaud, D., Czechowicz, A., Weissman, I. L., MacKenzie, T. C.
2014; 124 (6): 973-980
 - **Clonal analysis reveals nerve-dependent and independent roles on mammalian hind limb tissue maintenance and regeneration** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Rinkevich, Y., Montoro, D. T., Muhonen, E., Walmsley, G. G., Lo, D., Hasegawa, M., Januszzyk, M., Connolly, A. J., Weissman, I. L., Longaker, M. T.

2014; 111 (27): 9846-9851

- **Clonal analysis reveals nerve-dependent and independent roles on mammalian hind limb tissue maintenance and regeneration.** *Proceedings of the National Academy of Sciences of the United States of America*
Rinkevich, Y., Montoro, D. T., Muhonen, E., Walmsley, G. G., Lo, D., Hasegawa, M., Januszzyk, M., Connolly, A. J., Weissman, I. L., Longaker, M. T.
2014; 111 (27): 9846-9851
- **Quiescent Hematopoietic Stem Cells Accumulate DNA Damage during Aging that Is Repaired upon Entry into Cell Cycle.** *Cell stem cell*
Beerman, I., Seita, J., Inlay, M. A., Weissman, I. L., Rossi, D. J.
2014; 15 (1): 37-50
- **Existing cardiomyocytes generate cardiomyocytes at a low rate after birth in mice** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Ali, S. R., Hippenmeyer, S., Saadat, L. V., Luo, L., Weissman, I. L., Ardehali, R.
2014; 111 (24): 8850-8855
- **Existing cardiomyocytes generate cardiomyocytes at a low rate after birth in mice.** *Proceedings of the National Academy of Sciences of the United States of America*
Ali, S. R., Hippenmeyer, S., Saadat, L. V., Luo, L., Weissman, I. L., Ardehali, R.
2014; 111 (24): 8850-8855
- **Clonal Origins of the Hematopoietic System: The Single Most Elegant Experiment** *JOURNAL OF IMMUNOLOGY*
Weissman, I. L.
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