Stanford



Irving Weissman

Virginia & D.K. Ludwig Professor of Clinical Investigation in Cancer Research, Professor of Pathology, and of Developmental Biology

Pathology - Pathology Stem Cell Institute

NIH Biosketch available Online

CONTACT INFORMATION

- **Alternate Contact**

  Linda Quinn - Administrative Services Adminstrator

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Bio

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Director, Institute of Stem Cell Biology and Regenerative Medicine, Stanford University School of Medicine, (2003-2022)

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, Tsinghau 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, including immunological tolerance. He has trained and supervised hundreds of students and fellows, authored more than 950 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 Amerian 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 a 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 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; the CD47 work led to the founding of Forty Seven, Inc, Bitterroot Bio, Pheast, and Forty Eight, Inc.

CLINICAL TRIALS

- A Comprehensive Study to Isolate Tumor-initiating Cells From Human Epithelial Malignancies, Not Specified

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Samrat Thapa

Doctoral Dissertation Reader (AC)

Shahadat Rahman

Postdoctoral Faculty Sponsor

Allison Banuelos, Erica Dhuey, Elle Sedova, Siamak Sorooshyari, Monika Zukowska

Doctoral Dissertation Advisor (AC)

Andrew Burden, Omair Khan, Suyash Raj

Postdoctoral Research Mentor

Elle Sedova

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

- **SIRPα controls CD47-dependent platelet clearance in mice and humans.** *bioRxiv : the preprint server for biology*
  Shoham, M., Yiu, Y. Y., Hansen, P. S., Subramaniam, A., Broberg, M., Gars, E., Raveh, T., , Weissman, I. L., Sinnott-Armstrong, N., Krishnan, A., Ollila, H. M., Tal, M. C.
  2023

- **Prospective isolation of neural stem and progenitor cells from the developing human brain.** *STAR protocols*
  Liu, D. D., He, J. Q., Uchida, N., Weissman, I. L., Sinha, R.
  2023; 4 (4): 102674

- **Immune Surveillance of Acute Myeloid Leukemia Is Mediated by HLA-Presented Antigens on Leukemia Progenitor Cells.** *Blood cancer discovery*
  Nelde, A., Schuster, H., Heitmann, J. S., Bauer, J., Maringer, Y., Zwick, M., Volkmer, J. P., Chen, J. Y., Stanger, A. M., Lehmann, A., Appiah, B., Märklin, M., Rücker-Braun, et al

2023: OF1-OF22

- **Stem-Cell Aging and Pathways to Precancer Evolution.** *The New England journal of medicine*
  Jamieson, C. H., Weissman, I. L.
  2023; 389 (14): 1310-1319

- **Combination of Distinct Vascular Stem/Progenitor Cells for Neovascularization and Ischemic Rescue.** *Arteriosclerosis, thrombosis, and vascular biology*
  Zhao, L., Lee, A. S., Sasagawa, K., Sokol, J., Wang, Y., Ransom, R. C., Zhao, X., Ma, C., Steininger, H. M., Koepke, L. S., Borrelli, M. R., Brewer, R. E., Lee, et al
  2023

- **Multiple Forms of Neural Cell Death in the Cyclical Brain Degeneration of A Colonial Chordate.** *Cells*
  Anselmi, C., Caicci, F., Bocci, T., Guidetti, M., Priori, A., Giusti, V., Levy, T., Raveh, T., Voskoboynik, A., Weissman, I. L., Manni, L.
  2023; 12 (7)

- **Purification and characterization of human neural stem and progenitor cells.** *Cell*
  Liu, D. D., He, J. Q., Sinha, R., Eastman, A. E., Toland, A. M., Morri, M., Neff, N. F., Vogel, H., Uchida, N., Weissman, I. L.
  2023; 186 (6): 1179

- **Innate immune cell activation causes lung fibrosis in a humanized model of long COVID.** *Proceedings of the National Academy of Sciences of the United States of America*
  Cui, L., Fang, Z., De Souza, C. M., Lerbs, T., Guan, Y., Li, I., Charu, V., Chen, S. Y., Weissman, I., Wernig, G.
  2023; 120 (10): e2217199120

- **Cell-type-specific aging clocks to quantify aging and rejuvenation in neurogenic regions of the brain** *NATURE AGING*
  Buckley, M. T., Sun, E. D. D., George, B. M., Liu, L., Schaum, N., Xu, L., Reyes, J. M., Goodell, M. A., Weissman, I. L., Wyss-Coray, T., Rando, T. A., Brunet, A.
  2023; 3 (1): 121-+

- **Radiotherapy in combination with CD47 blockade elicits a macrophage-mediated abscopal effect.** *Nature cancer*
  Nishiga, Y., Drainas, A. P., Baron, M., Bhattacharya, D., Barkal, A. A., Ahrari, Y., Mancusi, R., Ross, J. B., Takahashi, N., Thomas, A., Diehn, M., Weissman, I. L., Graves, et al
  2022

- **Increased macrophage phagocytic activity with TLR9 agonist conjugation of an anti- Borrelia burgdorferi monoclonal antibody.** *Clinical immunology (Orlando, Fla.)*
  Jahanbani, S., Hansen, P. S., Blum, L. K., Bastounis, E. E., Ramadoss, N. S., Pandrala, M., Kirschmann, J. M., Blacker, G. S., Love, Z. Z., Weissman, I. L., Nemati, F., Tal, M. C., Robinson, et al
  2022: 109180

- **MDS-482 Impact Of Magrolimab in Combination With Azacitidine on Red Blood Cells (RBCs) in Patients With Higher-Risk Myelodysplastic Syndromes (HR MDS).** *Clinical lymphoma, myeloma & leukemia*
  Chen, J., Johnson, L., McKenna, K., Choi, T., Duan, J., Feng, D., Tsai, J., Garcia-Martin, N., Sompalli, K., Maute, R., Vyas, P., Majeti, R., Takimoto, et al
  2022; 22 Suppl 2: S317-S318

- **Impact Of Magrolimab in Combination With Azacitidine on Red Blood Cells (RBCs) in Patients With Higher-Risk Myelodysplastic Syndromes (HR MDS)**
  Chen, J., Johnson, L., McKenna, K., Choi, T., Duan, J., Feng, D., Tsai, J., Garcia-Martin, N., Sompalli, K., Maute, R., Vyas, P., Majeti, R., Takimoto, et al
  CIG MEDIA GROUP, LP.2022: S317-S318

- **Chimpanzee and pig-tailed macaque iPSCs: Improved culture and generation of primate cross-species embryos.** *Cell reports*
  Roodgar, M., Suchy, F. P., Nguyen, L. H., Bajpai, V. K., Sinha, R., Vilches-Moure, J. G., Van Bortle, K., Bhadury, J., Metwally, A., Jiang, L., Jian, R., Chiang, R., Oikonomopoulos, et al
  2022; 40 (9): 111264

- **Two distinct evolutionary conserved neural degeneration pathways characterized in a colonial chordate.** *Proceedings of the National Academy of Sciences of the United States of America*
  Anselmi, C., Kowarsky, M., Gasparini, F., Caicci, F., Ishizuka, K. J., Palmeri, K. J., Raveh, T., Sinha, R., Neff, N., Quake, S. R., Weissman, I. L., Voskoboynik, A., Manni, et al

2022; 119 (29): e2203032119

- **ISSCR Presidents look back on their presidency, the evolution of the field, and the Society** *STEM CELL REPORTS*
  Zon, L., Keller, G., Daley, G. Q., Watt, F. M., Weissman, I. L., Fuchs, E., Gage, F. H., Yamanaka, S., Rossant, J., Morrison, S., Temple, S., Clevers, H. C., Srivastava, et al
  2022; 17 (6): 1237-1244

- **Impact of magrolimab treatment in combination with azacitidine on red blood cells in patients with higher-risk myelodysplastic syndrome (HR-MDS).**
  Chen, J., Johnson, L., McKenna, K., Choi, T. S., Duan, J., Feng, D., Tsai, J. M., Garcia-Martin, N., Sompalli, K., Maute, R., Vyas, P., Majeti, R., Takimoto, et al
  LIPPINCOTT WILLIAMS & WILKINS.2022

- **Systemic and mucosal IgA responses are variably induced in response to SARS-CoV-2 mRNA vaccination and are associated with protection against subsequent infection**
  Sheikh-Mohamed, S., Chao, G., Isho, B., Zuo, M., Cohen, C., Lustig, Y., Nahass, G., Salomon, R. E., Blacker, G., Fazel-Zarandi, M., Rathod, B., Colwill, K., Jamal, et al
  AMER ASSOC IMMUNOLOGISTS.2022

- **Systemic and mucosal IgA responses are variably induced in response to SARS-CoV-2 mRNA vaccination and are associated with protection against subsequent infection.** *Mucosal immunology*
  Sheikh-Mohamed, S., Isho, B., Chao, G. Y., Zuo, M., Cohen, C., Lustig, Y., Nahass, G. R., Salomon-Shulman, R. E., Blacker, G., Fazel-Zarandi, M., Rathod, B., Colwill, K., Jamal, et al
  2022

- **2021 Jeffrey M. Hoeg Award Lecture: Defining the Role of Efferocytosis in Cardiovascular Disease: A Focus on the CD47 (Cluster of Differentiation 47) Axis.** *Arteriosclerosis, thrombosis, and vascular biology*
  Jarr, K., Kojima, Y., Weissman, I. L., Leeper, N. J.
  2022: 101161ATVBAHA122317049

- **Molecular hallmarks of heterochronic parabiosis at single-cell resolution.** *Nature*
  Palovics, R., Keller, A., Schaum, N., Tan, W., Fehlmann, T., Borja, M., Kern, F., Bonanno, L., Calcuttawala, K., Webber, J., McGeever, A., Tabula Muris Consortium, Luo, J., et al
  2022

- **CD47 Blockade Leads to Chemokine-Dependent Monocyte Infiltration and Loss of B Cells from the Splenic Marginal Zone.** *Journal of immunology (Baltimore, Md. : 1950)*
  Yiu, Y. Y., Hansen, P. S., Torrez Dulgeroff, L. B., Blacker, G., Myers, L., Galloway, S., Gars, E., Colace, O., Mansfield, P., Hasenkrug, K. J., Weissman, I. L., Tal, M. C.
  2022

- **The pleiotropic benefits of statins include the ability to reduce CD47 and amplify the effect of pro-efferocytic therapies in atherosclerosis.** *Nature cardiovascular research*
  Jarr, K., Ye, J., Kojima, Y., Ye, Z., Gao, H., Schmid, S., Luo, L., Baylis, R. A., Lotfi, M., Lopez, N., Eberhard, A. V., Smith, B. R., Weissman, et al
  2022; 1 (3): 253-262

- **PNP Hydrogel Prevents Formation of Symblephara in Mice After Ocular Alkali Injury.** *Translational vision science & technology*
  Swarup, A., Grosskopf, A. K., Stapleton, L. M., Subramaniam, V. R., Li, B., Weissman, I. L., Appel, E. A., Wu, A. Y.
  2022; 11 (2): 31

- **Tractable Human Skeletal Stem Cell Diversity Shapes Bone Development and Regeneration**
  Ambrosi, T., Taheri, S., Sinha, R., Goodnough, L., Steininger, H., Weissman, I., Longaker, M., Sahoo, D., Chan, C.
  WILEY.2022: 266-267

- **Anti-GD2 synergizes with CD47 blockade to mediate tumor eradication.** *Nature medicine*
  Theruvath, J., Menard, M., Smith, B. A., Linde, M. H., Coles, G. L., Dalton, G. N., Wu, W., Kiru, L., Delaidelli, A., Sotillo, E., Silberstein, J. L., Geraghty, A. C., Banuelos, et al
  1800

- **CD47 expression attenuates Ebola virus-induced immunopathology in mice.** *Antiviral research*
  Rao, D., O'Donnell, K. L., Carmody, A., Weissman, I. L., Hasenkrug, K. J., Marzi, A.
  1800: 105226

- **Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development.** *eLife*
  Phansalkar, R., Krieger, J., Zhao, M., Kolluru, S. S., Jones, R. C., Quake, S. R., Weissman, I., Bernstein, D., Winn, V. D., D'Amato, G., Red-Horse, K.
  1800; 10

- **Cancer stem cells: advances in biology and clinical translation-a Keystone Symposia report.** *Annals of the New York Academy of Sciences*
  Cable, J., Pei, D., Reid, L. M., Wang, X. W., Bhatia, S., Karras, P., Melenhorst, J. J., Grompe, M., Lathia, J. D., Song, E., Kuo, C. J., Zhang, N., White, et al
  2021

- **JSP191 As a Single-Agent Conditioning Regimen Results in Successful Engraftment, Donor Myeloid Chimerism, and Production of Donor Derived Naive Lymphocytes in Patients with Severe Combined Immunodeficiency (SCID)**
  Agarwa, R., Dvorak, C. C., Prockop, S., Kwon, H., Long-Boyle, J. R., Le, A., Brown, J. W., Merkel, E., Truong, K., Velasco, B., Arulprakasam, K., Harada, N., Dougall, et al
  AMER SOC HEMATOLOGY.2021

- **CD47 REGULATES PARASITE BURDEN AND PROMOTES PATHOGENESIS IN MURINE MALARIA MODELS**
  Oakley, M. S., Malla, P., Dulgeroff, L., Majam, V., Chorazeczewski, J. K., Okoth, W. A., Meredith, S., Rotstein, D. S., Weissman, I. L., Kumar, S.
  AMER SOC TROP MED & HYGIENE.2021: 334-335

- **A FUNCTIONAL GENETIC SCREEN UNCOVERS REGULATORS OF INTRATUMORAL MACROPHAGE FUNCTION AND REVEALS CD24 AS A NOVEL TARGET FOR CANCER IMMUNOTHERAPY BY MACROPHAGES**
  Barkal, A., Brewer, R., Weissman, I.
  BMJ PUBLISHING GROUP.2021: A283

- **Inter-cellular CRISPR screens reveal regulators of cancer cell phagocytosis.** *Nature*
  Kamber, R. A., Nishiga, Y., Morton, B., Banuelos, A. M., Barkal, A. A., Vences-Catalan, F., Gu, M., Fernandez, D., Seoane, J. A., Yao, D., Liu, K., Lin, S., Spees, et al
  2021

- **A Clinical PET Imaging Tracer ([18F]DASA-23) to Monitor Pyruvate Kinase M2 Induced Glycolytic Reprogramming in Glioblastoma.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Beinat, C., Patel, C. B., Haywood, T., Murty, S., Naya, L., Castillo, J. B., Reyes, S. T., Phillips, M., Buccino, P., Shen, B., Park, J. H., Koran, M. E., Alam, et al
  2021

- **Combining CD47 blockade with trastuzumab eliminates HER2-positive breast cancer cells and overcomes trastuzumab tolerance.** *Proceedings of the National Academy of Sciences of the United States of America*
  Upton, R., Banuelos, A., Feng, D., Biswas, T., Kao, K., McKenna, K., Willingham, S., Ho, P. Y., Rosental, B., Tal, M. C., Raveh, T., Volkmer, J., Pegram, et al
  2021; 118 (29)

- **Distinct skeletal stem cell types orchestrate long bone skeletogenesis.** *eLife*
  Ambrosi, T. H., Sinha, R., Steininger, H. M., Hoover, M. Y., Murphy, M. P., Koepke, L. S., Wang, Y., Lu, W., Morri, M., Neff, N. F., Weissman, I. L., Longaker, M. T., Chan, et al
  2021; 10

- **Overexpression of CD47 is associated with brain overgrowth and 16p11.2 deletion syndrome.** *Proceedings of the National Academy of Sciences of the United States of America*
  Li, J., Brickler, T., Banuelos, A., Marjon, K., Shcherbina, A., Banerjee, S., Bian, J., Narayanan, C., Weissman, I. L., Chetty, S.
  2021; 118 (15)

- **CD47 blockade reduces the pathologic features of experimental cerebral malaria and promotes survival of hosts with Plasmodium infection.** *Proceedings of the National Academy of Sciences of the United States of America*
  Torrez Dulgeroff, L. B., Oakley, M. S., Tal, M. C., Yiu, Y. Y., He, J. Q., Shoham, M., Majam, V., Okoth, W. A., Malla, P., Kumar, S., Weissman, I. L.
  2021; 118 (11)

- **Humanized anti-CD47 monoclonal antibody magrolimab (Hu5F9-G4) plus trastuzumab potentiates antibody-dependent cellular phagocytosis (ADCP), and cooperate to inhibit human HER2+breast cancer (BC) xenografts growth in vivo**
  Upton, R., Feng, D., Banuelos, A. M., Biswas, T., Willingham, S., Kao, K. S., McKenna, K., Rosenthal, B., Tal, M. C., Volkmer, J., Pegram, M. D., Weissman, I. L.
  AMER ASSOC CANCER RESEARCH.2021

- **Restoring metabolism of myeloid cells reverses cognitive decline in ageing.** *Nature*
  Minhas, P. S., Latif-Hernandez, A., McReynolds, M. R., Durairaj, A. S., Wang, Q., Rubin, A., Joshi, A. U., He, J. Q., Gauba, E., Liu, L., Wang, C., Linde, M., Sugiura, et al
  2021

- **Safe and Effective In Vivo Targeting and Gene Editing in Hematopoietic Stem Cells: Strategies for Accelerating Development National Institutes of Health/Bill & Melinda Gates Foundation Expert Scientific Roundtable Webinar Meeting.** *Human gene therapy*
  Cannon, P., Asokan, A., Czechowicz, A., Hammond, P., Kohn, D. B., Lieber, A., Malik, P., Marks, P., Porteus, M., Verhoeyen, E., Weissman, D., Weissman, I., Kiem, et al
  2021

- **Global analysis of shared T cell specificities in human non-small cell lung cancer enables HLA inference and antigen discovery.** *Immunity*
  Chiou, S. H., Tseng, D. n., Reuben, A. n., Mallajosyula, V. n., Molina, I. S., Conley, S. n., Wilhelmy, J. n., McSween, A. M., Yang, X. n., Nishimiya, D. n., Sinha, R. n., Nabet, B. Y., Wang, et al
  2021; 54 (3): 586–602.e8

- **Aged skeletal stem cells generate an inflammatory degenerative niche.** *Nature*
  Ambrosi, T. H., Marecic, O., McArdle, A., Sinha, R., Gulati, G. S., Tong, X., Wang, Y., Steininger, H. M., Hoover, M. Y., Koepke, L. S., Murphy, M. P., Sokol, J., Seo, et al
  2021

- **Absence of CD11a Expression Identifies Embryonic Hematopoietic Stem Cell Precursors via Competitive Neonatal Transplantation Assay.** *Frontiers in cell and developmental biology*
  Karimzadeh, A., Varady, E. S., Scarfone, V. M., Chao, C., Grathwohl, K., Nguyen, P. U., Ghorbanian, Y., Weissman, I. L., Serwold, T., Inlay, M. A.
  2021; 9: 734176

- **Epidermal-Derived Hedgehog Signaling Drives Mesenchymal Proliferation during Digit Tip Regeneration.** *Journal of clinical medicine*
  Maan, Z. N., Rinkevich, Y., Barrera, J., Chen, K., Henn, D., Foster, D., Bonham, C. A., Padmanabhan, J., Sivaraj, D., Duscher, D., Hu, M., Yan, K., Januszyk, et al
  2021; 10 (18)

- **Reactivation of the pluripotency program precedes formation of the cranial neural crest.** *Science (New York, N.Y.)*
  Zalc, A., Sinha, R., Gulati, G. S., Wesche, D. J., Daszczuk, P., Swigut, T., Weissman, I. L., Wysocka, J.
  2021; 371 (6529)

- **Sexual and asexual development: two distinct programs producing the same tunicate.** *Cell reports*
  Kowarsky, M. n., Anselmi, C. n., Hotta, K. n., Burighel, P. n., Zaniolo, G. n., Caicci, F. n., Rosental, B. n., Neff, N. F., Ishizuka, K. J., Palmeri, K. J., Okamoto, J. n., Gordon, T. n., Weissman, et al
  2021; 34 (4): 108681

- **Effect of CD47 Blockade on Vascular Inflammation.** *The New England journal of medicine*
  Jarr, K. U., Nakamoto, R. n., Doan, B. H., Kojima, Y. n., Weissman, I. L., Advani, R. H., Iagaru, A. n., Leeper, N. J.
  2021; 384 (4): 382–83

- **Hoxb5 defines the heterogeneity of self-renewal capacity in the hematopoietic stem cell compartment.** *Biochemical and biophysical research communications*
  Sakamaki, T. n., Kao, K. S., Nishi, K. n., Chen, J. Y., Sadaoka, K. n., Fujii, M. n., Takaori-Kondo, A. n., Weissman, I. L., Miyanishi, M. n.
  2021; 539: 34–41

- **Wounds Inhibit Tumor Growth In Vivo** *ANNALS OF SURGERY*
  Hu, M. S., Maan, Z. N., Leavitt, T., Hong, W., Rennert, R. C., Marshall, C. D., Borrelli, M. R., Zhu, T. N., Esquivel, M., Zimmermann, A., McArdle, A., Chung, M. T., Foster, et al
  2021; 273 (1): 173–80

- **Proteomic analysis of young and old mouse hematopoietic stem cells and their progenitors reveals post-transcriptional regulation in stem cells.** *eLife*
  Zaro, B. W., Noh, J. J., Mascetti, V. L., Demeter, J., George, B., Zukowska, M., Gulati, G. S., Sinha, R., Flynn, R. A., Banuelos, A., Zhang, A., Wilkinson, A. C., Jackson, et al
  2020; 9

- **A molecular cell atlas of the human lung from single-cell RNA sequencing.** *Nature*

Travaglini, K. J., Nabhan, A. N., Penland, L., Sinha, R., Gillich, A., Sit, R. V., Chang, S., Conley, S. D., Mori, Y., Seita, J., Berry, G. J., Shrager, J. B., Metzger, et al
2020

- **Effects of ultra-high dose rate FLASH irradiation on the tumor microenvironment in Lewis lung carcinoma: role of myosin light chain.** *International journal of radiation oncology, biology, physics*
  Kim, Y., Gwak, S., Hong, B., Oh, J., Choi, H., Kim, M. S., Oh, D., Lartey, F., Rafat, M., Schuler, E., Kim, H., von Eyben, R., Weissman, et al
  2020

- **Articular cartilage regeneration by activated skeletal stem cells.** *Nature medicine*
  Murphy, M. P., Koepke, L. S., Lopez, M. T., Tong, X., Ambrosi, T. H., Gulati, G. S., Marecic, O., Wang, Y., Ransom, R. C., Hoover, M. Y., Steininger, H., Zhao, L., Walkiewicz, et al
  2020

- **Digit tip regeneration relies on germ layer restricted Wnt and Hedgehog signaling**
  Barrera, J., Maan, Z., Rinkevich, Y., Henn, D., Chen, K., Bonham, C. A., Padmanabhan, J., Januszyk, M., Weissman, I. L., Gurtner, G. C.
  WILEY.2020: S5

- **James L. Gowans 1924-2020.** *Nature immunology*
  Howard, J. C., Weissman, I. L.
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