




Charles Kwok Fai Chan

 NIH Biosketch available Online

Bio

ACADEMIC APPOINTMENTS

- Member, Cardiovascular Institute
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Wu Tsai Human Performance Alliance

LINKS

- <http://med.stanford.edu/rejuvenativemedicine.html>: <http://med.stanford.edu/rejuvenativemedicine.html>

Teaching

COURSES

2023-24

- Advanced Immunology I: IMMUNOL 201 (Win)

2022-23

- Advanced Immunology I: IMMUNOL 201 (Win)

STANFORD ADVISEES

Postdoctoral Research Mentor

Chao Ma

Publications

PUBLICATIONS

- **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., Steining, H. M., Koepke, L. S., Borrelli, M. R., Brewer, R. E., Lee, et al
2023
- **Denervation during mandibular distraction osteogenesis results in impaired bone formation.** *Scientific reports*
Tevlin, R., Griffin, M., Chen, K., Januszyk, M., Guardino, N., Spielman, A., Walters, S., Gold, G. E., Chan, C. K., Gurtner, G. C., Wan, D. C., Longaker, M. T.
2023; 13 (1): 2097
- **A seed-and-soil theory for blood ageing.** *Nature cell biology*

Ambrosi, T. H., Chan, C. K.
2023

- **Development and systematic characterization of GelMA/alginate/PEGDMA/xanthan gum hydrogel bioink system for extrusion bioprinting.** *Biomaterials*
Li, J., Moeinzadeh, S., Kim, C., Pan, C. C., Weale, G., Kim, S., Abrams, G., James, A. W., Choo, H., Chan, C., Yang, Y. P.
2022; 293: 121969
- **Sexually dimorphic estrogen sensing in skeletal stem cells controls skeletal regeneration.** *Nature communications*
Andrew, T. W., Koepke, L. S., Wang, Y., Lopez, M., Steininger, H., Struck, D., Boyko, T., Ambrosi, T. H., Tong, X., Sun, Y., Gulati, G. S., Murphy, M. P., Marecic, et al
2022; 13 (1): 6491
- **Glucocorticoids Affect Bone Mass and Strength by Inhibiting Osteoprogenitor Cell Maturation**
Ambrosi, T., Murphy, M., Chan, C. K. F., Lane, N.
WILEY.2022: 2569
- **Partial Tendon Injury at the Tendon-to-Bone Enthesis Activates Skeletal Stem Cells.** *Stem cells translational medicine*
Titan, A. L., Davitt, M., Foster, D., Salhotra, A., Menon, S., Chen, K., Fahy, E., Lopez, M., Jones, R. E., Baiu, I., Burcham, A., Januszyk, M., Gurtner, et al
2022
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896
- **Human Coronary Plaque T Cells Are Clonal and Cross-React to Virus and Self.** *Circulation research*
Roy Chowdhury, R., D'Addabbo, J., Huang, X., Veizades, S., Sasagawa, K., Louis, D. M., Cheng, P., Sokol, J., Jensen, A., Tso, A., Shankar, V., Wendel, B. S., Bakerman, et al
2022: 101161CIRCRESAHA121320090
- **REGENERATION OF CARTILAGE THROUGH ACTIVATION OF TISSUE RESIDENT SKELETAL STEM CELLS AND AUGMENTATION OF THE NICHE**
Murphy, M. P., Koepke, L. S., Lopez, M. T., Tong, X., Ambrosi, T. H., Gulati, G., Marecic, O., Wang, Y., Ransom, R. C., Hoover, M., Longaker, M. T., Chan, C. K. F.
MARY ANN LIEBERT, INC.2022: S375
- **Publisher Correction: Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022
- **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
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- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
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2022
- **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
- **A Brain Dependent Osteogenic Factor Controls Peak Bone Mass**
Herber, C., Ambrosi, T., Morioka, K., Marcucio, R., Ventura, P., Villeda, S., Chan, C., Lane, N., Ingraham, H.
WILEY.2022: 191

- **Aging of Skeletal Stem Cells.** *Advances in geriatric medicine and research*
Butler, M. G., Ambrosi, T. H., Murphy, M. P., Chan, C. K.
2022; 4 (2)
- **Cross-species comparisons reveal resistance of human skeletal stem cells to inhibition by non-steroidal anti-inflammatory drugs.** *Frontiers in endocrinology*
Goodnough, L. H., Ambrosi, T. H., Steininger, H. M., Butler, M. G., Hoover, M. Y., Choo, H., Van Rysselberghe, N. L., Bellino, M. J., Bishop, J. A., Gardner, M. J., Chan, C. K.
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- **Denervation During Mandibular Distraction Osteogenesis Results in Impaired Osteogenesis**
Tevlin, R., Januszyk, M., Griffin, M., Salhotra, A., Wan, D. C., Chan, C. K. F., Longaker, M. T.
ELSEVIER SCIENCE INC.2021: S196-S197
- **Acellular Dermal Matrix Modulation of the Peri-Prosthetic Breast Microenvironment During Breast Reconstruction**
Tevlin, R., Januszyk, M., Griffin, M., Shefren, K., Chan, C. K. F., Momeni, A., Wan, D. C., Longaker, M. T.
ELSEVIER SCIENCE INC.2021: S195-S196
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*
Olivieri, J., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.
2021; 10
- **Skeletal stem and progenitor cells maintain cranial suture patency and prevent craniosynostosis.** *Nature communications*
Menon, S., Salhotra, A., Shailendra, S., Tevlin, R., Ransom, R. C., Januszyk, M., Chan, C. K., Behr, B., Wan, D. C., Longaker, M. T., Quarto, N.
2021; 12 (1): 4640
- **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
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- **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
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- **Skeletal Stem Cells as the Developmental Origin of Cellular Niches for Hematopoietic Stem and Progenitor Cells.** *Current topics in microbiology and immunology*
Ambrosi, T. H., Chan, C. K.
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- **Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis.** *Cell reports*
Leavitt, T., Hu, M. S., Borrelli, M. R., Januszyk, M., Garcia, J. T., Ransom, R. C., Mascharak, S., desJardins-Park, H. E., Litzenburger, U. M., Walmsley, G. G., Marshall, C. D., Moore, A. L., Duoto, et al
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- **Delayed Union of a Diaphyseal Forearm Fracture Associated With Impaired Osteogenic Differentiation of Prospectively Isolated Human Skeletal Stem Cells.** *JBMR plus*
Goodnough, L. H., Ambrosi, T. H., Steininger, H., DeBaun, M. R., Abrams, G. D., McAdams, T. R., Gardner, M. J., Chan, C. K., Bishop, J. A.
2020; 4 (10): e10398
- **Human skeletal stem cell aging** *AGING-US*
Ambrosi, T. H., Goodnough, L., Chan, C. K. F.
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- **Human skeletal stem cell aging.** *Aging*
Ambrosi, T. H., Goodnough, L. H., Chan, C. K.
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
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 - **Therapeutic modulation of phagocytosis in glioblastoma can activate both innate and adaptive antitumour immunity.** *Nature communications*
von Roemeling, C. A., Wang, Y., Qie, Y., Yuan, H., Zhao, H., Liu, X., Yang, Z., Yang, M., Deng, W., Bruno, K. A., Chan, C. K., Lee, A. S., Rosenfeld, et al
2020; 11 (1): 1508
 - **Expansion of Bone Precursors through Jun as a Novel Treatment for Osteoporosis-Associated Fractures.** *Stem cell reports*
Lerbs, T., Cui, L., Muscat, C., Saleem, A., van Neste, C., Domizi, P., Chan, C., Wernig, G.
2020
 - **Ageing hallmarks exhibit organ-specific temporal signatures.** *Nature*
Schaum, N. n., Lehallier, B. n., Hahn, O. n., Pálovics, R. n., Hosseinzadeh, S. n., Lee, S. E., Sit, R. n., Lee, D. P., Losada, P. M., Zardeneta, M. E., Fehlmann, T. n., Webber, J. T., McGeever, et al
2020
 - **A single-cell transcriptomic atlas characterizes ageing tissues in the mouse.** *Nature*
2020
 - **A Brain-Dependent Osteogenic Factor Dramatically Enhances the Capacity of Skeletal Stem Cells to form Bone in Female Mice**
Herber, C., Ventura, P., Villeda, S., Ingraham, H., Ambrosi, T., Chan, C., Lane, N.
WILEY.2019: 57
 - **A Brain-Dependent Osteogenic Factor Dramatically Enhances the Capacity of Skeletal Stem Cells to form Bone in Female Mice**
Herber, C., Ventura, P., Villeda, S., Ingraham, H., Ambrosi, T., Chan, C., Lane, N.
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 - **Role of the Skeletal Stem Cell in Achilles Tendon to Bone Interface Healing**
Titan, A. L., Jones, R., Salhotra, A., Robertson, K. S., Foster, D., Menon, S., Murphy, M., Lucero, G. V., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2019: S228–S229
 - **A Revised Perspective of Skeletal Stem Cell Biology** *FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY*
Ambrosi, T. H., Longaker, M. T., Chan, C. K. F.
2019; 7
 - **A Revised Perspective of Skeletal Stem Cell Biology.** *Frontiers in cell and developmental biology*
Ambrosi, T. H., Longaker, M. T., Chan, C. K.
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 - **THERAPEUTIC MODULATION OF THE PHAGOCYtic AXIS SPARKS ANTI-TUMOR CD8 T CELL RESPONSES IN GLIOBLASTOMA**
von Roemeling, C., Qie, Y., Jiang, W., Chen, Y., Shih, K., Liu, X., Knight, J., Tian, R., Chan, C., Kim, B.
OXFORD UNIV PRESS INC.2018: 124
 - **Mechanoresponsive stem cells acquire neural crest fate in jaw regeneration.** *Nature*
Ransom, R. C., Carter, A. C., Salhotra, A., Leavitt, T., Marecic, O., Murphy, M. P., Lopez, M. L., Wei, Y., Marshall, C. D., Shen, E. Z., Jones, R. E., Sharir, A., Klein, et al
2018
 - **Method of Isolating and Transplanting the Hematopoietic Stem Cell with Its Microenvironment Which Improves Functional Hematopoietic Engraftment**
Borrelli, M. R., Lopez, M., Gulati, G., Murphy, M. P., Sinha, R., Longaker, M. T., Weissman, I. L., Newman, A. M., Chan, C. K., Sokol, J.
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- **Translational Approach Using Trimodal Manipulation of Resident Skeletal Stem Cells for Articular Cartilage Repair**
Murphy, M. P., Koepke, L. S., Lopez, M., Ransom, R. C., Brewer, R. E., Borrelli, M. R., Marecic, O., Chan, C. K. F., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: S213–S214
- **Identification of the Human Skeletal Stem Cell.** *Cell*
Chan, C. K., Gulati, G. S., Sinha, R., Tompkins, J. V., Lopez, M., Carter, A. C., Ransom, R. C., Reinisch, A., Wearda, T., Murphy, M., Brewer, R. E., Koepke, L. S., Marecic, et al
2018; 175 (1): 43
- **Isolation and functional assessment of mouse skeletal stem cell lineage** *NATURE PROTOCOLS*
Gulati, G. S., Murphy, M. P., Marecic, O., Lopez, M., Brewer, R. E., Koepke, L. S., Manjunath, A., Ransom, R. C., Salhotra, A., Weissman, I. L., Longaker, M. T., Chan, C. K. F.
2018; 13 (6): 1294–1309
- **Improving immune-vascular crosstalk for cancer immunotherapy** *NATURE REVIEWS IMMUNOLOGY*
Huang, Y., Kim, B. Y. S., Chan, C. K., Hahn, S. M., Weissman, I. L., Jiang, W.
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- **Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix.** *Nature biomedical engineering*
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- **Where Hematopoietic Stem Cells Live: The Bone Marrow Niche** *ANTIOXIDANTS & REDOX SIGNALING*
Szade, K., Gulati, G. S., Chan, C. K. F., Kao, K. S., Miyaniishi, M., Marjon, K. D., Sinha, R., George, B. M., Chen, J. Y., Weissman, I. L.
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- **Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix** *Nature Biomedical Engineering*
Lee, A. S., Inayathullah, ., Lijkwan, . A., Zhao, X., Sun, W., Park, S., Hong, W. X., Parekh, M. B., Malkovskiy, A. V., Lau, E., Qin, X., Pothineni, . R., et al
2018; 2 (2): 104–13
- **Prrx1 Labels the Fibrogenic Fibroblast in the Ventral Dermis**
Hu, M., Leavitt, T., Garcia, J., Ransom, R., Litzemberger, U., Walmsley, G., Marshall, C., Moore, A., Mascharak, S., Chan, C., Wan, D., Lorenz, P., Chang, et al
WILEY.2018: A4
- **Prolonged survival of transplanted stem cells after ischaemic injury via the slow release of pro-survival peptides from a collagen matrix** *Nature Biomedical Engineering*
Lee, A. S., Inayathullah, ., Lijkwan, . A., Zhao, X., Sun, W., Park, S., Hong, W. X., Parekh, M. B., Malkovskiy, A. V., Lau, E., Qin, X., Pothineni, . R., et al
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2017; 16 (6): 369–70
- **Discussion: Regeneration of Vascularized Corticocancellous Bone and Diploic Space Using Muscle-Derived Stem Cells: A Translational Biologic Alternative for Healing Critical Bone Defects** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Murphy, M. P., Chan, C. K., Longaker, M. T.
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- **Fibroblasts become fat to reduce scarring.** *Science*
Chan, C. K., Longaker, M. T.
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- **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.
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- **Human Adipose-Derived Stromal Cell Isolation Methods and Use in Osteogenic and Adipogenic In Vivo Applications.** *Current protocols in stem cell biology*
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- **The Role of Skeletal Stem Cells in the Reconstruction of Bone Defects.** *The Journal of craniofacial surgery*
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- **External Beam Radiation Therapy for the Treatment of Human Pluripotent Stem Cell-Derived Teratomas.** *Stem cells (Dayton, Ohio)*
Lee, A. S., Tang, C. n., Hong, W. X., Park, S. n., Bazalova, M. n., Nelson, G. n., Sanchez-Freire, V. n., Bakerman, I. n., Zhang, W. n., Neofytou, E. n., Connolly, A. J., Chan, C. K., Graves, et al
2017
- **Lectins bring benefits to bones** *ELIFE*
Chan, C. K. F., Ransom, R. C., Longaker, M. T.
2016; 5
- **A Novel Method of Human Adipose-Derived Stem Cell Isolation with Resultant Increased Cell Yield** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Tevlin, R., McArdle, A., Brett, E., Chung, M. T., Paik, K., Seo, E. Y., Walmsley, G. G., Duldulao, C. R., Atashroo, D., Zielins, E., Vistnes, S., Chan, C. K., Wan, et al
2016; 138 (6): 983E-996E
- **Immune Priming of the Tumor Microenvironment by Radiation** *TRENDS IN CANCER*
Jiang, W., Chan, C. K., Weissman, I. L., Kim, B. Y. S., Hahn, S. M.
2016; 2 (11): 638–45
- **Enrichment of Adipose-Derived Stromal Cells for BMPR1A Facilitates Enhanced Adipogenesis** *TISSUE ENGINEERING PART A*
Zielins, E. R., Paik, K., Ransom, R. C., Brett, E. A., Blackshear, C. P., Luan, A., Walmsley, G. G., Atashroo, D. A., Senarath-Yapa, K., Momeni, A., Rennert, R., Sorkin, M., Seo, et al
2016; 22 (3-4): 214-221
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Agarwal, S., Loder, S., Cholok, D., Peterson, J., Li, J., Fireman, D., Breuler, C., Hsieh, H. S., Ranganathan, K., Hwang, C., Drake, J., Li, S., Chan, et al
2016; 6: 32514-?
- **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
- **Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers** *JACC-CARDIOVASCULAR IMAGING*
Nguyen, P. K., Lee, W. H., Li, Y. F., Hong, W. X., Hu, S., Chan, C., Liang, G., Nguyen, I., Ong, S., Churko, J., Wang, J., Altman, R. B., Fleischmann, et al
2015; 8 (8): 873-884
- **Assessment of the Radiation Effects of Cardiac CT Angiography Using Protein and Genetic Biomarkers.** *JACC. Cardiovascular imaging*
Nguyen, P. K., Lee, W. H., Li, Y. F., Hong, W. X., Hu, S., Chan, C., Liang, G., Nguyen, I., Ong, S., Churko, J., Wang, J., Altman, R. B., Fleischmann, et al
2015; 8 (8): 873-884
- **The role and regulation of osteoclasts in normal bone homeostasis and in response to injury.** *Plastic and reconstructive surgery*

- McArdle, A., Marecic, O., Tevlin, R., Walmsley, G. G., Chan, C. K., Longaker, M. T., Wan, D. C.
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- **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
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 - **Epigenetic and in vivo comparison of diverse MSC sources reveals an endochondral signature for human hematopoietic niche formation.** *Blood*
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2015; 125 (2): 249-260
 - **Positive Selection for Bone Morphogenetic Protein Receptor Type-1B Promotes Differentiation and Specification of Human Adipose-Derived Stromal Cells Toward an Osteogenic Lineage** *TISSUE ENGINEERING PART A*
McArdle, A., Chung, M. T., Paik, K. J., Duldulao, C., Chan, C., Rennert, R., Walmsley, G. G., Senarath-Yapa, K., Hu, M., Seo, E., Lee, M., Wan, D. C., Longaker, et al
2014; 20 (21-22): 3031-3040
 - **Positive selection for bone morphogenetic protein receptor type-1B promotes differentiation and specification of human adipose-derived stromal cells toward an osteogenic lineage.** *Tissue engineering. Part A*
McArdle, A., Chung, M. T., Paik, K. J., Duldulao, C., Chan, C., Rennert, R., Walmsley, G. G., Senarath-Yapa, K., Hu, M., Seo, E., Lee, M., Wan, D. C., Longaker, et al
2014; 20 (21-22): 3031-3040
 - **Abstract 161: identification of cell-intrinsic mechanisms and differentially regulated genetic pathways responsible for the age-related functional decline in aged skeletal stem cells.** *Plastic and reconstructive surgery*
McArdle, A., Chan, C., Seita, J., Senarath-Yapa, K., Hu, M., Walmsley, G. G., Zielins, E., Atashroo, D., Tevlin, R., Weissman, I., Longaker, M. T.
2014; 133 (3): 178-?
 - **Osteoclast derivation from mouse bone marrow.** *Journal of visualized experiments : JoVE*
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2014
 - **Osteoclast derivation from mouse bone marrow.** *Journal of visualized experiments : JoVE*
Tevlin, R., McArdle, A., Chan, C. K., Pluvinage, J., Walmsley, G. G., Wearda, T., Marecic, O., Hu, M. S., Paik, K. J., Senarath-Yapa, K., Atashroo, D. A., Zielins, E. R., Wan, et al
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 - **BLT-humanized C57BL/6 Rag2(-/-)gamma(-/-)(c)CD47(-/-) mice are resistant to GVHD and develop B- and T-cell immunity to HIV infection** *BLOOD*
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Chan, C. K., Lindau, P., Jiang, W., Chen, J. Y., Zhang, L. F., Chen, C., Seita, J., Sahoo, D., Kim, J., Lee, A., Park, S., Nag, D., Gong, et al
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 - **Do pluripotent stem cells exist in adult mice as very small embryonic stem cells?** *Stem cell reports*
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 - **Do pluripotent stem cells exist in adult mice as very small embryonic stem cells?** *Stem cell reports*
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