

Stanford



Charles Chan

Clinical Assistant Professor, Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

- **Academic Contact**

Patricia Gallardo - Administrative Assistant to the Division of Pediatric Orthopaedics

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Bio

CLINICAL FOCUS

- Pediatric and Adolescent Sports Medicine
- Shoulder, Elbow, Knee, and Ankle Arthroscopy
- Anterior Cruciate Ligament (ACL) Reconstruction in the Growing Athlete with Open or Closed Growth Plates
- Arthroscopic Treatment of Shoulder Instability
- Arthroscopic Treatment of Meniscus Tears
- Cartilage Preservation and Restoration
- Osteochondritis Dissecans Lesions
- Patellar Instability
- Pediatric Orthopedic Surgery

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Orthopaedic Surgery
- Member, Maternal & Child Health Research Institute (MCHRI)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Diplomate, American Board of Orthopaedic Surgery (ABOS) (2015 - present)
- Member, Western Orthopedic Association (WOA) (2014 - present)
- Member, California Orthopaedic Association (2014 - present)
- Member, Pediatric Orthopaedic Society of North America (POSNA) (2013 - present)
- Member, American Academy of Orthopedic Surgery (AAOS) (2013 - present)
- Member, American Orthopaedic Society for Sports Medicine (AOSSM) (2012 - present)
- Member, Associate Instructor, Arthroscopy Association of North America (2011 - present)

PROFESSIONAL EDUCATION

- Fellowship: Columbia University Dept of Orthopaedic Surgery (2013) NY
- Fellowship: University of Rochester Sports Medicine Fellowship (2012) NY
- Residency: Stony Brook Orthopaedic Surgery Residency (2011) NY
- Medical Education: Warren Alpert Medical School Brown University (2006) RI
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2015)
- Undergraduate, Brown University , RI (2001)

LINKS

- The Sports Medicine Program at Stanford Children's Health: <http://sports.stanfordchildrens.org>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Chan is a dual-fellowship trained orthopaedic surgeon who specializes in the treatment of sports injuries in both the pediatric and adolescent growing athlete. His goal is to help each athlete return to their sport using both surgical and non-surgical treatments while emphasizing injury prevention.

His areas of expertise include tears to the anterior cruciate ligament (ACL) and meniscus, shoulder instability, patellar instability, cartilage defects, osteochondritis dissecans lesions, and pediatric trauma. He offers arthroscopic and open treatment options for sports injuries in athletes with either open or closed growth plates.

Dr. Chan received both his undergraduate and medical degree at Brown University. He then completed orthopaedic surgery residency at Stony Brook University Medical Center where he developed an interest in treating the growing athlete. He subsequently pursued a fellowship in Sports Medicine at the University of Rochester Medical Center and a second fellowship in Pediatric Orthopaedics at Columbia University Medical Center Morgan Stanley Children's Hospital.

Dr. Chan's interests include identifying risk factors for growth plate injuries during ACL reconstruction, developing new strategies to prevent pediatric sports injuries, and clinical outcomes of surgical reconstructions in the pediatric athlete.

Publications

PUBLICATIONS

- **Prospective Methodology Results in Higher Rates of Reported Complications Following Pediatric ACL Reconstruction.** *Journal of pediatric orthopedics*
Martin, H., Ellis, H., Agonias, K., Van Pelt, R., Saper, M., Niu, E. L., Green, D., Schmitz, M., Ganley, T., Wilson, P., Shea, K., Albright, J., Algan, et al
2026
- **US multicentre randomised controlled trial protocol: Comparing Analgesic Regimen Effectiveness and Safety after surgery trial for Kids (CARES for Kids).** *BMJ open*
Lee, J. S., Bicket, M. C., Mansfield, S. A., Rabbitts, J. A., Van Horn, A., Perrone, E. E., Chua, K. P., Voepel-Lewis, T., Waljee, J., Brummet, C., Hutmacher, C., Li, Y., Kelley-Quon, et al
2026; 16 (5): e118728
- **Age is a Risk Factor for Postoperative Stiffness Following Surgical Treatment of Pediatric Discoid Lateral Meniscus: A Report From the SCORE Multicenter Database.** *Journal of pediatric orthopedics*
Baird, H., McKay, S., Knell, G., Wilson, P., Frank, J., Mansour, A., Shea, K., Ellis, H.
2026

- **Knee Chondral Shear Injury Repair: A Biomechanical Laboratory Comparison of Suture Bridge to Chondral Pin Fixation.** *The American journal of sports medicine*
Duru, N. O., Stoner, A. J., Frey, C., Pham, N. S., Ellis, H. B., Schmitz, M. R., Yen, Y. M., Tompkins, M. A., Ganley, T. J., Wilson, P., Meadows, M. C., Chan, C., Shea, et al
2026: 3635465261436052
- **Increased operative time is an independent risk factor for surgical complications following isolated anterior cruciate ligament reconstruction in skeletally immature patients.** *Journal of experimental orthopaedics*
Sinha, R., Pelt, R. V., Green, D. W., Shea, K. G., Niu, E. L., Saper, M. G., Schmitz, M. R., Ganley, T. J., Wilson, P. L., Ellis, H. B.
2026; 13: e70759
- **Can Suture Tape Improve Radial Meniscal Tear Repair Over Traditional Suture? A Biomechanical Cadaveric Study.** *The American journal of sports medicine*
Stoner, A. J., Huang, A., Alayleh, A. M., Duru, N. O., Anaya Gallegos, A., Chan, C., Chan, C., Ellis, H. B., Ganley, T., Meadows, M. C., Schmitz, M. R., Sherman, S. L., Tompkins, et al
2026: 3635465261422715
- **Articular Length Better Predicts Talar Dome Radius of Curvature Than Articular Width or Age in Pediatric Osteochondral Allograft Planning.** *Foot & ankle international*
Tuyishime, H., Okoli, O., Sueyoshi, T., Obilo, C., Shea, K. G., Chan, C. M.
2026: 10711007251405243
- **Evaluating ChatGPT's Ability to Answer Common Parent Questions on Avascular Necrosis in Children** *HSS JOURNAL*
Smith, G. B., Hofmann, G. H., Gussner, A. V., Duru, N. O., Laureano, T. A., Meadows, M. C., Chan, C., Shea, K. G.
2026
- **Evaluating ChatGPT's Ability to Answer Common Parent Questions on Avascular Necrosis in Children.** *HSS journal : the musculoskeletal journal of Hospital for Special Surgery*
Smith, G. B., Hofmann, G. H., Gussner, A. V., Duru, N. O., Laureano, T. A., Meadows, M. C., Chan, C., Shea, K. G.
2026: 15563316251408833
- **Comparative Analysis of Iliotibial Band Graft Length in Pediatric Anterior Cruciate Ligament Reconstruction: MacIntosh Versus All-Epiphyseal Femoral Drilling Technique.** *The American journal of sports medicine*
Duru, N. O., Stoner, A. J., Alayleh, A. M., Lind, D. R., Schultz, C., Pham, N. S., Ellis, H. B., Schmitz, M. R., Yen, Y. M., Tompkins, M. A., Ganley, T., Meadows, M. C., Chan, et al
2025: 3635465251371321
- **Medial and Lateral Posterior Tibial Slope in the Skeletally Immature: Variability Across Pediatric Ages Without a Consistent Trend.** *Journal of ISAKOS : joint disorders & orthopaedic sports medicine*
Okoro, S. I., Taylor, V., Troyer, S., Alayleh, A., Ellis, H. B., Yen, Y. M., Tompkins, M., Ganley, T., Chan, C., Shea, K. G.
2025: 100869
- **MRI Features That Contribute to Decision-Making for Treatment of Capitellar OCD Lesions: An Expert Consensus Using the Delphi Method.** *Orthopaedic journal of sports medicine*
Kostyun, R. O., Nguyen, J. C., Chhabra, B., Todd R Lawrence, J., Polousky, J. D., Saper, M., Uquillas, C., Nissen, C. W., Members of the ROCKET Group, Kostyun, R. O., Albright, J., Bae, D., Bohn, D., et al
2024; 12 (6): 23259671241252813
- **Use of Peripheral Nerve Blocks Is Not Associated With Decreased Postoperative Opioid Prescription After ACL Reconstruction in Adolescents** *ORTHOPEDICS*
Kaur, J., Pham, N., Cahan, E., Halvorsen, K., Langner, J. L., Bryson, X. M., Chan, C. M., Vorhies, J.
2024; 47 (2): 83-88
- **Glucocorticoid-induced Reduction in Osteogenesis and Angiogenesis is Coupled through Altered Skeletal Stem Cell Lineage Dynamics**
Ambrosi, T., Wang, Y., Murphy, M., Chan, C., Lane, N.
OXFORD UNIV PRESS.2023: 7
- **In Vivo Tracking of Human Fetal Skeletal Stem Cell Lineage Dynamics at the Single Cell Level**
Ambrosi, T., Sinha, R., Chan, C.
OXFORD UNIV PRESS.2023: 318

- **In Vivo Tracking of Human Fetal Skeletal Stem Cell Lineage Dynamics at the Single Cell Level**
Ambrosi, T., Sinha, R., Chan, C.
OXFORD UNIV PRESS.2023: 42
- **Intravenous Vitamin C for Patients Hospitalized With COVID-19: Two Harmonized Randomized Clinical Trials.** *JAMA*
LOVIT-COVID Investigators, o. b., Adhikari, N. K., Hashmi, M., Tirupakuzhi Vijayaraghavan, B. K., Haniffa, R., Beane, A., Webb, S. A., Angus, D. C., Gordon, A. C., Cook, D. J., Guyatt, G. H., Berry, L. R., Lorenzi, et al
2023
- **Efficient and multiplexed tracking of single cells using whole-body PET/CT.** *bioRxiv : the preprint server for biology*
Nguyen, H. T., Das, N., Wang, Y., Ruvalcaba, C., Mehadji, B., Roncali, E., Chan, C. K., Pratz, G.
2023
- **TET1 regulates skeletal stem cell (SSC) mediated cartilage regeneration.** *Arthritis & rheumatology (Hoboken, N.J.)*
Pandey, A., Hoover, M., Singla, M., Bedi, Y., Storaci, H., Goodman, S. B., Chan, C., Bhutani, N.
2023
- **Del1 Is a Growth Factor for Skeletal Progenitor Cells in the Fracture Callus.** *Biomolecules*
Sun, Y., Boyko, T., Marcic, O., Struck, D., Mann, R. K., Andrew, T. W., Lopez, M., Tong, X., Goodman, S. B., Yang, F., Longaker, M. T., Chan, C. K., Yang, et al
2023; 13 (8)
- **Gla-domain mediated targeting of externalized phosphatidylserine for intracellular delivery.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
Hardy, J., Bauzon, M., Chan, C. K., Makela, A. V., Kanada, M., Schneider, D., Blankenberg, F., Contag, C. H., Hermiston, T.
2023; 37 (8): e23113
- **Thumb Osteoarthritis: Stem Cell Activation, Niche Augmentation and Tissue Regeneration**
Murphy, M., Takematsu, E., Koepke, L., Tong, X., Butler, G., Ambrosi, T., Hoover, M., Wang, Y., Zhao, L., Wong, J., Reid, A., Longaker, M., Chan, et al
MARY ANN LIEBERT, INC.2023
- **Purification and functional characterization of novel human skeletal stem cell lineages.** *Nature protocols*
Hoover, M. Y., Ambrosi, T. H., Steininger, H. M., Koepke, L. S., Wang, Y., Zhao, L., Murphy, M. P., Alam, A. A., Arouge, E. J., Butler, M. G., Takematsu, E., Stavitsky, S. P., Hu, et al
2023
- **Optimizing Delivery of Therapeutic Growth Factors for Bone and Cartilage Regeneration.** *Gels (Basel, Switzerland)*
Takematsu, E., Murphy, M., Hou, S., Steininger, H., Alam, A., Ambrosi, T. H., Chan, C. K.
2023; 9 (5)
- **Canadian multidisciplinary expert consensus on the use of biologics in upper airways: a Delphi study.** *Journal of otolaryngology - head & neck surgery = Le Journal d'oto-rhino-laryngologie et de chirurgie cervico-faciale*
Thamboo, A. V., Lee, M., Bhutani, M., Chan, C., Chan, Y., Chapman, K. R., Chin, C. J., Connors, L., Dorscheid, D., Ellis, A. K., Gall, R. M., Godbout, K., Janjua, et al
2023; 52 (1): 30
- **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
- **Effect of Angiotensin-Converting Enzyme Inhibitor and Angiotensin Receptor Blocker Initiation on Organ Support-Free Days in Patients Hospitalized With COVID-19: A Randomized Clinical Trial.** *JAMA*
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2023; 329 (14): 1183-1196
- **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
- **Intracompartmental Human Skeletal Stem Cell Diversity and Crosstalk Is Central To Long Bone Morphogenesis**
Ambrosi, T., Taheri, S., Felix, F., Sinha, R., Sahoo, D., Chan, C.
WILEY.2023: 304-305
 - **Opioid Represcriptions After ACL Reconstruction in Adolescents are Associated With Subsequent Opioid Use Disorder.** *Journal of pediatric orthopedics*
Cahan, E. M., Halvorsen, K. C., Pham, N. S., Kaur, J., Bryson, X. M., Chan, C. M., Vorhies, J. S.
2023
 - **A seed-and-soil theory for blood ageing.** *Nature cell biology*
Ambrosi, T. H., Chan, C. K.
2023
 - **Hydra: Effective Runtime Network Verification**
Renganathan, S., Rubin, B., Kim, H., Ventre, P., Cascone, C., Moro, D., Chan, C., McKeown, N., Foster, N., ACM
ASSOC COMPUTING MACHINERY.2023: 182-194
 - **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., Karkanas, 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., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
2022

- **Effect of Antiplatelet Therapy on Survival and Organ Support-Free Days in Critically Ill Patients With COVID-19: A Randomized Clinical Trial.** *JAMA*
REMAP-CAP Writing Committee for the REMAP-CAP Investigators, Bradbury, C. A., Lawler, P. R., Stanworth, S. J., McVerry, B. J., McQuilten, Z., Higgins, A. M., Mouncey, P. R., Al-Beidh, F., Rowan, K. M., Berry, L. R., Lorenzi, E., Zarychanski, R., 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
2022
- **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., Karkanas, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
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
- **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.
2022; 13: 924927
- **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)
- **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
- **Effect of Convalescent Plasma on Organ Support-Free Days in Critically Ill Patients With COVID-19: A Randomized Clinical Trial.** *JAMA*
Writing Committee for the REMAP-CAP Investigators, Estcourt, L. J., Turgeon, A. F., McQuilten, Z. K., McVerry, B. J., Al-Beidh, F., Annane, D., Arabi, Y. M., Arnold, D. M., Beane, A., Begin, P., van Bentum-Puijk, W., Berry, L. R., et al
2021
- **RNA splicing programs define tissue compartments and cell types at single cell resolution.** *eLife*
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2021; 10
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*
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2021; 10
- **Therapeutic Anticoagulation with Heparin in Critically Ill Patients with Covid-19.** *The New England journal of medicine*
REMAP-CAP Investigators, ACTIV-4a Investigators, ATTACC Investigators, Goligher, E. C., Bradbury, C. A., McVerry, B. J., Lawler, P. R., Berger, J. S., Gong, M. N., Carrier, M., Reynolds, H. R., Kumar, A., Turgeon, A. F., Kornblith, L. Z., et al
2021

- **Therapeutic Anticoagulation with Heparin in Noncritically Ill Patients with Covid-19.** *The New England journal of medicine*
ATTACC Investigators, ACTIV-4a Investigators, REMAP-CAP Investigators, Lawler, P. R., Goligher, E. C., Berger, J. S., Neal, M. D., McVerry, B. J., Nicolau, J. C., Gong, M. N., Carrier, M., Rosenson, R. S., Reynolds, H. R., Turgeon, A. F., et al
2021
- **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
2021; 10
- **Lopinavir-ritonavir and hydroxychloroquine for critically ill patients with COVID-19: REMAP-CAP randomized controlled trial.** *Intensive care medicine*
Arabi, Y. M., Gordon, A. C., Derde, L. P., Nichol, A. D., Murthy, S., Beidh, F. A., Annane, D., Swaidan, L. A., Beane, A., Beasley, R., Berry, L. R., Bhimani, Z., Bonten, et al
2021
- **Opiate prescribing patterns in the adolescent population following anterior cruciate ligament reconstruction.** *Journal of opioid management*
Karius, A., Cahan, E. M., Segovia, N. A., Fan, A., Chan, C. M.
2021; 17 (4): 321-325
- **Interleukin-6 Receptor Antagonists in Critically Ill Patients with Covid-19** *NEW ENGLAND JOURNAL OF MEDICINE*
Gordon, A. C., Al-Beidh, F., Rowan, K. M., Nichol, A. D., Arabi, Y. M., Annane, D., Beane, A., Van Bentum-Puijk, W., Berry, L. R., Bhimani, Z., Bonten, M. J. M., Bradbury, C. A., Brunkhorst, 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.
2021; 434: 1-31
- **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
- **Radial Width of the Lateral Meniscus at the Popliteal Hiatus: Relevance to Saucerization of Discoid Lateral Menisci.** *The American journal of sports medicine*
Gamble, J. G., Abdalla, A. B., Meadows, M. G., Rauer, T., Chan, C. M., Ganley, T. J., Tompkins, M., Shea, K. G., Gamble, J. G.
2021: 3635465211056661
- **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., Litzemberger, U. M., Walmsley, G. G., Marshall, C. D., Moore, A. L., Duoto, et al
2020; 33 (6): 108356
- **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.
2020; 12 (17): 16669–71
- **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*
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2020
- **Relationship Between Dynamic Limb Symmetry And Subjective Limb Confidence Post ACL Reconstruction In Youth Athletes**
Morgan, J. J., Lyons, S. M., Chan, S. K., Chan, C. M., Shea, K. G., Kraus, E. A.
LIPPINCOTT WILLIAMS & WILKINS.2020: 2–3
- **Geriatric fragility fractures are associated with a human skeletal stem cell defect.** *Aging cell*
Ambrosi, T. H., Goodnough, L. H., Steininger, H. M., Hoover, M. Y., Kim, E., Koepke, L. S., Marecic, O., Zhao, L., Seita, J., Bishop, J. A., Gardner, M. J., Chan, C. K.
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