



Center for Skeletal Research Newsletter

January 2023

January CSR Bone Research Workshop

Friday, January 6, 2023 • 3:30 – 5:00PM ET



Chaochang Li, Ph.D.

Postdoctoral Research Fellow, Department of Orthopedic Surgery, Boston Children's Hospital; Harvard Medical School. Harvard Stem Cell Institute

"Novel iPSC-based model of Progressive Pseudorheumatoid Arthropathy of Childhood points to abnormal TGF β signaling in premature cartilage failure "



Xubo Niu, Ph.D.

Center for Regenerative Medicine, Department of Orthopaedic Surgery, Massachusetts General Hospital, Harvard Medical School

"A Conserved Transcription Factor Regulatory Program Promotes Tendon Fate"

Zoom link: <https://partners.zoom.us/j/504453700?pwd=WG4vUFQwd1g5NWc3a1FaMzAvbTFndz09>

Meeting ID: 504 453 700 Password: 345926

Next Bone Research Workshop: Friday, February 3, 3:30-5:00pm ET. [Click here](#) to view full seminar series calendar.

CSR Mentorship Program Reminder for Trainees

If you are interested in participating in a mentorship program sponsored by the CSR,

please take this survey by Friday, January 13, 2023:

<https://www.csr-mgh.org/csr-mentee-survey-for-csr-trainees/>

Please contact CSRmail@partners.org if you have any questions.



MGB Orthopaedic Research Seminar Series

Wednesday, January 11, 2023, 12:00 – 1:00 p.m. ET

“Osteocytic Mechanisms of Bone Fragility and Joint disease”

Tamara Alliston, Ph.D.

Professor, Department of Orthopaedic Surgery and Director, Center for Musculoskeletal Biology and Medicine, University of California San Francisco

Zoom link: <https://partners.zoom.us/j/88622265908?pwd=NXNUQkkzamM0Z1kvY0JSd2hORWVWUT09>

Meeting ID: 886 2226 5908 Passcode: 642944

Host: MGB Orthopaedic Research Seminar Series Organizers Julia Charles, Ebru Oral, Jenna Galloway, Haelin Jang

For more information, please contact Haelin Jang (hjang@bwh.harvard.edu)

CSR Video Gallery Available at [CSR-MGH.org](https://www.csr-mgh.org)

Watch past presentation recordings from:

Skeletal Research Symposium 2022

Summer Lecture Series 2022

Visiting Speaker Series

Bone Research Workshops

Methods Workshops

[Click here](#) to access the CSR Video Gallery.

Small Grants for CSR Core Services

Center for Skeletal Research Core small grants (up to \$2,000 direct costs only) will be awarded for the purpose of obtaining critical preliminary data for an upcoming grant submission. Funds must be used for CSR Core services.

Contact CSRmail@partners.org if interested in applying. [Click here](#) for grant details.



Core Innovation Travel Awards

Travel awards are available to allow an investigator to travel to an outside laboratory to gain expertise in novel methodologies used for skeletal analyses and to integrate these new technologies into their own work or into one of the Research Cores upon return to Boston. These funds will subsidize travel, hotel, meals (if travel is required versus acquiring these techniques from an outside lab in the greater Boston area) and reagent costs required for integration of the service into a Core.

Contact CSRmail@partners.org if interested in applying.

Recently Published by the CSR Community

NEW: Sato T, Andrade CDC, Yoon SH, Zhao Y, Greenlee WJ, Weber PC, Viswanathan U, Kulp J, Brooks DJ, Demay MB, Bouxsein ML, Mitlak B, Lanske B, Wein MN. Structure-based design of selective, orally available salt-inducible kinase inhibitors that stimulate bone formation in mice. *Proc Natl Acad Sci U S A*. 2022 Dec 13;119(50):e2214396119. doi: [10.1073/pnas.2214396119](https://doi.org/10.1073/pnas.2214396119). Epub 2022 Dec 6. PMID: 36472957.

Karagianni A, Matsuura S, Gerstenfeld LC, Ravid K. Inhibition of Osteoblast Differentiation by JAK2^{V617F} Megakaryocytes Derived From Male Mice With Primary Myelofibrosis. *Front Oncol*. 2022 Jul 8;12:929498. doi: [10.3389/fonc.2022.929498](https://doi.org/10.3389/fonc.2022.929498). PMID: 35880162; PMCID: PMC9307716.

Daley EJ, Yoon SH, Reyes M, Bruce M, Brooks DJ, Bouxsein M, Potts JT, Kronenberg HM, Wein MN, Lanske B, Jüppner H, Gardella TJ. Actions of Parathyroid Hormone Ligand Analogues in Humanized PTH1R Knockin Mice. *Endocrinology*. 2022 Jul 1;163(7):bqac054. doi: [10.1210/endo/bqac054](https://doi.org/10.1210/endo/bqac054). PMID: 35460406; PMCID: PMC9167040.

Phan HTN, Loomis J, Abraham S, He Q, Bastepe M, Smrcka AV. A naturally occurring membrane-anchored Gα_s variant, XLα_s, activates phospholipase Cβ4. *J Biol Chem*. 2022 Jun 13;298(8):102134. doi: [10.1016/j.jbc.2022.102134](https://doi.org/10.1016/j.jbc.2022.102134). Epub ahead of print. PMID: 35709985; PMCID: PMC9294334.

Young C, Caffrey M, Janton C, Kobayashi T. Reversing the miRNA -5p/-3p stoichiometry reveals physiological roles and targets of miR-140 miRNAs. *RNA*. 2022 Jun;28(6):854-864. doi: [10.1261/rna.079013.121](https://doi.org/10.1261/rna.079013.121). Epub 2022 Mar 24. PMID: 35332065; PMCID: PMC9074898.

Shaw AT, Yan J, Kuhstoss SA, Charles JF, Gravalles EM. Dickkopf-1 directs periosteal bone formation in two murine models of inflammatory arthritis. *Scand J Rheumatol*. 2022 Mar 11:1-5. doi: [10.1080/03009742.2022.2040136](https://doi.org/10.1080/03009742.2022.2040136). Epub ahead of print. PMID: 35272576.

Mor Grinstein, Stephanie L Tsai, Daniel Montoro, Heather L Dingwall, Ken Zou, Moshe Sade-Feldman, Miho J Tanaka, Terence D Capellini, Jayaraj Rajagopal, Jenna L Galloway. *BioRxiv* doi: <https://doi.org/10.1101/2022.02.02.478533>
