



## Center for Skeletal Research Newsletter *July 2023*

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### CSR Summer Lecture Series – *July Schedule*

Occurs every week of the summer. [Click here](#) for full schedule.

*Target audience:* summer students, new techs, and post-docs.

Thursday, July 6, 2023 • 4:00pm – 5:00pm ET

**Lamya Karim, PhD**

*“Biomechanics”*

Assistant Professor of Medicine; UMass Dartmouth

Wednesday, July 12, 2023 • 4:00pm – 5:00pm ET

**Rosanne Raftery, PhD**

*“Harnessing the Power of IPSCs to Study and Repair Cartilage”*

Research Fellow, Boston Children’s Hospital

Thursday, July 20, 2023 • 4:00pm – 5:00pm ET

**Marc Wein, MD, PhD**

*“Gene editing and cell signaling”*

Assistant Professor of Medicine, Endocrine Unit

Massachusetts General Hospital

Wednesday, July 26, 2023 • 4:00pm – 5:00pm ET

**Ata Kiapour, PhD**

*“Machine Learning and Artificial Intelligence”*

Assistant Professor of Orthopedic Surgery, Boston Children’s Hospital

Zoom information sent to all members in calendar invite. Email [CSRmail@partners.org](mailto:CSRmail@partners.org) for Zoom link.

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### Join the CSR Mentorship Program!

If you are interested in joining the CSR Mentorship Program as a mentor, please [click here](#) to take a brief 5-minute survey identifying your interests.

*Recommended commitment is 1 hour per quarter (this can vary with your preference).*

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### Recently Published by the CSR Community

**NEW:** Portales-Castillo I, Dean T, Cheloha RW, Creemer BA, Vilardaga JP, Savransky S, Khatri A, Jüppner H, Gardella TJ. Altered Signaling and Desensitization Responses in PTH1R Mutants Associated with Eiken Syndrome. *Commun Biol.* 2023 Jun 2;6(1):599. doi: 10.1038/s42003-023-04966-0. PMID: 37268817; PMCID: PMC10238420.

**NEW:** Young C, Kobayashi T. Limited roles of Piezo mechanosensing channels in articular cartilage development and osteoarthritis progression. *Osteoarthritis Cartilage.* 2023 Jun;31(6):775-779. doi: 10.1016/j.joca.2023.01.576. Epub 2023 Feb 17. PMID: 36805475.

**NEW:** Mitchell DM, Singhal V, Animashaun A, Bose A, Carmine B, Stanford FC, Inge TH, Kelsey MM, Lee H, Bouxsein ML, Yu EW, Bredella MA, Misra M. Skeletal Effects of Sleeve Gastrectomy in Adolescents and Young Adults: A 2-Year Longitudinal Study. *J Clin Endocrinol Metab.* 2023 Mar 10;108(4):847-857. doi: [10.1210/clinem/dgac634](https://doi.org/10.1210/clinem/dgac634). PMID: 36314507; PMCID: PMC10211497.

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<sup>V617F</sup> 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 G $\alpha_s$  variant, XL $\alpha_s$ , activates phospholipase C $\beta_4$ . *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>

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