

Center for Musculoskeletal Research Newsletter

JANUARY 2024

NEWS

CSR Flash Presentation Networking Event

**sponsored by the CSR Outreach Committee*

[Click here](#) to sign up!

Have you presented recently at a conference (e.g. ASBMR) **or recently published** and want to share your work? Or are you gearing up to present something new at an upcoming meeting (e.g. ORS) and want some practice? **Come to our in-person [Flash Presentation Networking Event](#) in the new year.**

This is a great way to get some short presentation practice (3-5m) in a low stakes social environment and to meet other CSR trainees. **Open to early stage investigators (ESI) only**; this includes all graduate and medical trainees, postdoctoral scholars, and junior faculty. Sign up today if you're interested in presenting your work, or just want to make some new friends in the CSR!

Exact Date TBD (Friday in January from 2-3:30pm)

In person: Zinner Breakout Room, Brigham and Women's Hospital, 70 Francis street, Boston 02115

Contact CSRmail@partners.org with any questions

NEW: CSR Mentorship Program

**sponsored by the Early Stage Investigator Committee*

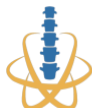
Are you interested in finding a mentor to guide you on your academic journey? Are you facing challenges in certain aspects of your training or career?

The CSR has mentorship resources and offers valuable one-on-one mentorship experiences.

How to get started: email us at CSRmail@partners.org to let us know what you need help with!

Why Mentorship Matters

- Gain personalized guidance.
 - Expand your network.
 - Resolve issues.
 - Elevate your academic and professional journey.
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EVENTS

CSR Friday Research Seminar

Friday, January 12, 2024 • 3:30-5:00 pm ET

Occurs every first or second Friday of the month. [Click here](#) for full schedule.

*"Novel Fatty Acid Metabolism Related
Targets in Multiple Myeloma"*

Michaela Reagan, PhD

Faculty Scientist II, MaineHealth Institute for
Research and Associate Professor,
Tufts University School of Medicine

&

*"Role of the Gut Microbiome in Calcium and
Bone Metabolism"*

Karin Wu, MD

Assistant Professor of Medicine, Division of
Endocrinology and Metabolism, UC San Francisco & Staff
Endocrinologist, San Francisco VA Health Care System

Email CSRmail@partners.org for Zoom link

CSR Grant Writing Workshop

**Sponsored by the CSR Early Stage Investigators Committee*

Wednesday, January 17, 2023 • 3:30 – 5:00 am ET

WORKSHOP AGENDA

- 3:30 – 3:35 Welcome & Overview of academic career development – Diana Carlone, PhD
- 3:35 – 3:55 Tips for navigating the NIH K Award – Kristy Nicks, PhD
- 3:55 – 4:00 Training Plan & Common Criticisms/intro to K breakouts – David Maridas, PhD
- 4:00 – 4:30 K award-specific breakout sessions
 - K08: Petra Simic, MD, PhD & Eugene Rhee, MD
 - K99: Shirley Wang, PhD & Marc Wein, MD, PhD
 - K01: Lamya Karim, PhD & Mary Bouxsein, PhD
 - K23: *Speakers TBD*
- 4:30 – 4:40 Review process – Paola Divieti Pajevic, PhD
- 4:40 – 4:50 Alternate funding sources – Jingting Yao, PhD
- 4:50 – 5:00 Q&A

[Click here](#) to register

NEW SERIES: CSR Meet the Editor

Friday, January 19, 2023 • 12:00 – 1:00 pm ET

Yevgeniya Nusinovich, M.D., Ph.D.

Senior Editor, Science

Email CSRmail@partners.org for Zoom link

NEW SERIES: CSR Meet the Editor

Tuesday, January 23, 2023 • 9:30 – 10:30 am ET

Rajesh Thakker, MD, FRCP, FRS

May Professor of Medicine in the Radcliffe Department of Clinical Medicine
at the University of Oxford, UK and fellow of Somerville College, Oxford, UK

Editor in Chief, Journal of Bone and Mineral Research

Email CSRmail@partners.org for Zoom link

CSR Rare Bone Disease Seminar Series

**Sponsored by the CSR Clinical Working Group*

Wednesday, January 24, 2023 • 4:00 – 5:00 pm ET

“Boston Strong (as bone). How Boston bombing survivors have helped unravel the enigma of heterotopic ossification signature is good”

Benjamin Levi MD

Dr. Lee Hudson-Robert R. Penn Chair

Division Chief of General Surgery

Director, Center for Organogenesis Regeneration & Trauma

Associate Professor in Surgery

University of Texas Southwestern Medical Center

Email CSRmail@partners.org for Zoom link

SAVE THE DATE!

Musculoskeletal Research Symposium

Monday, May 6, 2024 • 8:00 am – 5:00 pm ET

In person event: MGB Assembly Row, 440 Foley Street Somerville, MA 02145

CSR Core Mini Grants

Center for Musculoskeletal Research Core mini-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.

[Click here](#) for application details. Email applications to CSRmail@partners.org

CSR Innovation Awards

Innovation awards are designed to promote the ability of Center investigators to visit outside laboratories to gain expertise in novel methodologies which can be integrated into one of the Resource Cores so our community can

benefit from these new technologies. Funds (up to \$5000) are available to cover the costs of supplies and reagents required, as well as any necessary travel. Applications are accepted on a rolling basis. Discussion with the relevant Core director is highly encouraged prior to preparing an application.

[Click here](#) for application details. Email applications to CSRmail@partners.org

Recently Published by the CSR Community

Phosphate-induced activation of VEGFR2 leads to caspase-9-mediated apoptosis of hypertrophic chondrocytes. Yadav PS, Papaioannou G, Kobelski MM, Demay MB. Phosphate-induced activation of VEGFR2 leads to caspase-9-mediated apoptosis of hypertrophic chondrocytes. *iScience*. 2023;26(9):107548. Published 2023 Aug 7. doi: [10.1016/j.isci.2023.107548](https://doi.org/10.1016/j.isci.2023.107548)

Hussein AI, Carroll D, Bui M, Wolff A, Matheny H, Hogue B, Lybrand K, Cooke M, Bragdon B, Morgan E, Demissie S, Gerstenfeld L. Oxidative metabolism is impaired by phosphate deficiency during fracture healing and is mechanistically related to BMP induced chondrocyte differentiation. *Bone Rep*. 2023 Jan 23;18:101657. doi: [10.1016/j.bonr.2023.101657](https://doi.org/10.1016/j.bonr.2023.101657). PMID: 37425193; PMCID: PMC10323218.

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](https://doi.org/10.1038/s42003-023-04966-0). PMID: 37268817; PMCID: PMC10238420.

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](https://doi.org/10.1016/j.joca.2023.01.576). Epub 2023 Feb 17. PMID: 36805475.

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^{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/endocr/bqac054](https://doi.org/10.1210/endocr/bqac054). PMID: 35460406; PMCID: PMC9167040.

Send your recently published papers to CSRmail@partners.org to be featured here!