Center for Musculoskeletal Research (CSR)

Center for Musculoskeletal Research Newsletter

November 2023 Part I

CLICK HERE to view the full **CSR Events Calendar** online

CSR Journal Club

Wednesday, November 8, 2023 • 4:00 – 5:00 pm ET

"The genetic architecture and evolution of the human skeletal form"

Dr. Vagheesh Narasimhan

Assistant Professor in the Department of Integrative Biology and Department of Statistics and Data Science
University of Texas, Austin

Click here to view the article

Zoom: https://partners.zoom.us/j/8738319847?pwd=MUhxNWJvcHl0Wk9HSk54NDc4Sk40Zz09
Meeting ID: 873 831 9847 Passcode: 743096

MGB Orthopaedic Research Seminar Series

Wednesday, November 8, 2023 • 12:00 – 1:00 PM ET

"Characterizing PJI dynamics and exploring synergistic therapies"

Amita Sekar, Ph.D.

Harris Orthopaedics Laboratory, MGH & Department of Orthopaedic Surgery, Harvard Medical School

&

"An architecturally rational hemostat for rapid stopping of massive bleeding on anticoagulation therapy"

Vivian K. Lee, Ph.D.

Center for Engineered Therapeutics, BWH & Department of Orthopaedic Surgery, Harvard Medical School

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

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)

BU MHet (Musculoskeletal Health) ARC Seminar Series

Friday, November 17, 2023 • 4:00 – 5:00 PM ET

"Bone marrow endosteal stem/stromal cells: An essential regulator of bone health and disease"

Dr. Noriaki Ono

Associate Professor University of Texas Health Science Canter at Huston School of Dentistry

Host: Dr. Paola Divieti Pajevic pdivieti@bu.edu

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Zoom: https://bostonu.zoom.us/j/93445745643?pwd=Sm1oaHhVdk03MXRGeHp6azRGNUJBdz09
Meeting ID: 934 4574 5643. Passcode: 989317

CSR Friday Research Seminar

Friday, December 1, 2023 • 3:30-5:00 pm ET

Occurs every first or second Friday of the month. Click here for full schedule.

"Tools for investigation of bone mechanoadaptation"

Quentin Meslier, PhD *Candidate*

Department of Bioengineering, Northeastern University

&

"Uncovering the transcriptomic, epigenomic, and spatial profiles of the developing human pelvic girdle at a single cell level"

Gayani Senevirathne, PhD

Post-doctoral Fellow, Department of Human Evolutionary Biology, Harvard University

Zoom: https://partners.zoom.us/j/504453700?pwd=WG4vUFQwd1g5NWc3a1FaMzAvbTFndz09
Meeting ID: 504 453 700 Passcode: 345926

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**

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

Recently Published by the CSR Community

Phosphate-induced activation of VEGFR2 leads to caspase-9-mediated apoptosis of hypertrophic chondrocytes.

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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

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. 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. 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. 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. PMID: 36314507; PMCID: PMC10211497.

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