

A Look Back at the PCMD Annual Scientific Symposium - November 16, 2022



We were back in person for the 18th Annual Penn Center for Musculoskeletal Disorders Scientific Symposium and it was a great success. The symposium was held on Wednesday, November 16, 2022. We had 238 registrants and 83 posters. This year's keynote speaker, Lori A. Setton, PhD from Washington University, St. Louis gave a fabulous lecture titled "Navigating a Path to Understanding Drug Delivery in the Treatment of Arthritis". Symposium attendees enjoyed scientific presentations from new Center members Drs. Michael Mitchell, Ernestina Schipani and Ottman Tertuliano; Affiliate members Drs. Hannah Dailey (Lehigh University), Ugur Ayturk (Hospital for Special Surgery) and Kara Spiller (Drexel University). In addition to the above, Drs. Josh Baxter, Riccardo Gottardi and Kyu Sang Joeng gave a presentation on their past PCMD Pilot Grant awards. The following trainees received prizes for their posters in the following categories: Biomechanics: Stanton Godshall (Penn State), Briana Orozco (UPenn), and Thomas Leahy (UPenn); Histology: Tala Azar (UPenn), Sarah Catheline (CHOP), Mingyue Fan (Drexel), and Shira Johnston (Jefferson); MicroCT: Mary Kate Evans (UPenn), Kimheak Sao (Jefferson), and Murtaza Wasi (UDelaware); and Miscellaneous: Marco Angelozzi (CHOP), Ji-Hyung Lee (UPenn), Zizhao Li (UPenn), Madhura Nijsure (UPenn). All our poster presenters are winners! Please browse the Symposium [booklet](#).

Preparations are under way for the 19th Annual Symposium next fall. Stay tuned!

PCMD Pilot and Feasibility Grant Program Opportunity - NOW OPEN

Pilot Grant Information

The Penn Center for Musculoskeletal Disorders is once again accepting applications for its Pilot and Feasibility Grant Program. Submissions should be related to musculoskeletal tissue injury and repair which is the broad focus of the Center and Grants are only eligible for Full Members at Penn and/or CHOP (if you are not a member but would like to become one, please visit: <https://www.med.upenn.edu/pcmd/become-a-member.html> for instructions on joining).



Pilot grants are due by Thursday, February 23, 2023 before 5pm with a planned start

date of July 1, 2023 and we are expecting to award 3-4 new grants in this round.

Potential applicants are encouraged to send a short e-mail, with your name, a rough title of your proposed project, a sentence or two (at most) describing the global hypothesis or objective, and a note as to which of the 3 Research Cores (Biomechanics, Histology, MicroCT) you would use (core use is required for pilot funding) to soslowisk@upenn.edu For more information on our Cores and Center in general, please see our web site at <https://www.med.upenn.edu/pcmd/>

Affiliate Member Core Funding News - Now Available

NEWS:

PCMD Funds Available for Affiliate members:

Affiliate members are now eligible for financial and intellectual support for PCMD core use. Center facilities and intellectual guidance are available to learners at all levels (e.g., faculty, trainees, staff) at other institutions. To a large extent, this effort is to provide increased opportunities to engage investigators at affiliate institutions (defined broadly) that do not have extensive resources supporting musculoskeletal research. All potential requests for support should start with an email to either a Core Director/s or to Lou Soslowisky at soslowisk@upenn.edu to discuss your needs. For more information on this please visit the Affiliate Member Core Funding page at <https://www.med.upenn.edu/pcmd/affiliate-member-core-funding.html>

Spotlight Publications/News From Our Members



New Full Member Kyle Vining, D.D.S., Ph.D. - New publication titled: "Mechanical Checkpoint Regulates Monocyte Differentiation in Fibrotic Niches"

<https://www.nature.com/articles/s41563-022-01293-3>

Dr. Vining is an Assistant Professor of Preventive and Restorative Sciences, School of Dental Medicine and Department of Materials Science, School of Engineering & Applied Sciences, Division of Restorative Dentistry, Preventive & Restorative Sciences



Affiliate Member Hannah Dailey, Ph.D. received a new R21 related to bone fracture healing titled "**Strain and Bone Fracture Healing: Image-Based Mechanics Models to Redefine the Rules**". To see abstract text visit

https://reporter.nih.gov/search/05M510U7Kk2yq_t0GG5pEw/project-details/10510045

Dr. Dailey is an Associate Professor of Mechanical Engineering and Mechanics from Lehigh University and was a speaker at the 18th Annual Symposium.

Full Member Véronique Lefebvre, Ph.D. - New high impact publication (with journal issue cover) titled: **"Single-cell atlas of craniogenesis uncovers SOX2-dependent, highly proliferative, and myofibroblast-like osteodermal progenitors"** <https://pubmed.ncbi.nlm.nih.gov/35830813/>



Dr. Lefebvre is a Professor in the Translational Research Program in Pediatric Orthopaedics and the Department of Surgery/Division of Orthopaedic Surgery at CHOP

Affiliate Member Nancy Pleshko, Ph.D. received a new R21 titled **"Non-Invasive Determination of Bone Quality Markers by Monte Carlo Modeling and Optical Spectroscopy"**. To see abstract text visit



<https://reporter.nih.gov/search/oz314v7SREK6nVCY6gTZSw/project-details/10391689>

Dr. Pleshko is the Laura H. Carnell Professor and the Associate Dean for Faculty, Research and Graduate Studies from Temple University

PENN CENTER FOR MUSCULOSKELETAL DISORDERS FUNDS AVAILABLE:

PCMD FUNDS AVAILABLE:

Summary Statement Driven Funding Request

If you have a recent summary statement from an NIH grant (eligible NIH mechanisms include all "R" grants such as R03, R21 and R01 and "K" grants such as K01, K08 on their first submission—please inquire regarding eligibility of other proposal mechanisms) which requires you to run additional experiments, gather additional data, provide feasibility for an approach, or similar, we can provide small funds (\$1,000-\$15,000) with a very short turn-around time in order to allow you to complete these experiments and resubmit your proposal with the best chance of success. Requests for funding will be evaluated on a rolling basis and priority will be given to Assistant Professors with encouraging initial review priority scores better than ~30-35%. The format of the "Summary Statement Driven Funding Request", which is limited to **one page**, is as follows:

- Name of PI (must be a PCMD full member)
- Title of Project Request
- Specific Purpose of Request with Stated Outcome/Goal Referring Explicitly to the Summary Statement for Justification
- Research Design and Methods
- Budget with Brief Justification

Funding through this mechanism is available by submitting the one page proposal to pcmd@penncmedicine.upenn.edu

Upcoming Seminars

January

24

Tuesday, 1:30pm-2:30pm/CRB Austrian Auditorium
Title: Life, Death and Transformation in the Transition Zone, Implications for Bone Healing
Ralph Marcucio, Ph.D., Professor of Orthopaedic Research and Director, Laboratory for Skeletal Regeneration, Orthopaedic Trauma Institute
Co-Director, Oral and Craniofacial Science Graduate Program
University of California, San Francisco

February

21

Tuesday, 1:30pm-2:30pm/CRB Austrian Auditorium
Title: Immunoengineering in the Musculoskeletal System
Jennifer Elisseeff, Ph.D., Morton Goldberg Professor, Wilmer Eye Institute
Biomedical Engineering, Translational Tissue Engineering Center
Board of Maryland's Technology Development Corporation (TEDCO)
Johns Hopkins University

March

28

Tuesday, 1:30pm-2:30pm/CRB Austrian Auditorium
Title: From Bench to Human Trials: How did we get there?
Patrick Mooney, M.D., Ceo and Director
Christopher Natale, Ph.D., Co-Founder and VP, Research
Linnaeus Therapeutics

[View All Activities...](#)

[Orthopaedic
Research Club
\(ORC\) Seminars](#)

[Membership
Page](#)

IMPORTANT INFORMATION

Remember to include reference to support from the Center in your abstracts and publications. Cite Grant NIH/NIAMS P30AR069619 from the National Institute of Arthritis and Musculoskeletal and Skin Diseases of the NIH.

Support has also been provided by the Perelman School of Medicine at the University of Pennsylvania.



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If you have any news or information that you would like included in the next issue of the Musculoskeletal Messenger newsletter, please email the information to: pcmd@penmedicine.upenn.edu

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