

Center for Musculoskeletal Research

Vol 3 | Issue 2 | Mar 2011

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WORK WITH THE BEST
TO GET THE BEST RESULTS

1st Annual Musculoskeletal Winter Symposium

The 1st Annual Musculoskeletal Winter Symposium was held on Thursday, January 27, 2011. The Annual Symposium is the largest and most extensive interaction of the CMR Research Base investigators. It was a half day symposium featuring talks (overview of the Center and P&F updates), a poster session (including work from all laboratories) and a



featured speaker. We are pleased to report that about 100 people attended the Symposium, and there were 50 abstract submissions. Of those 50 abstract submissions, five were chosen for oral presentations and three were winners of poster prizes.

We would like to thank everyone that attended the Symposium. Your support of the Center is its driving force. Please plan to attend next year's Symposium (TBA), and continue all of the wonderful work that was showcased at this year's Symposium!



For more information on the Cores, please click on the links below:

[Core A—Administrative Core](#)

[Core B—Structure and Strength Core](#)

[Core C—In Situ Molecular Analysis Core](#)

[Core D—Mouse Genetics Models Core](#)

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Avioli Musculoskeletal Seminar Series

Fridays @ 9am

CAM Bldg. | Conference Rm #2

- | | |
|---------|--|
| 3/4 | Deborah Novack
Washington University |
| 3/11 | Yousef Abu-Amer
Washington University |
| 3/18 | Phil Osdoby
Washington University |
| 3/25 | David Ornitz
Washington University |
| 4/1 | Kyunghee Choi
Washington University |
| 4/8 | Ellen Heber-Katz
Wistar Institute |
| 4/15 | Cliff Rosen
Maine Medical Center |
| 4/19-20 | Regis O'Keefe
University of Rochester |
| 4/29 | Lynn Sakai
Oregon Health & Science Univ. |

Washington University

Department of Orthopaedic Surgery

660 S. Euclid

Yalem Research Bldg.

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St. Louis | MO | 63110

Special Presentations

Invited Speaker



Dr. Henry M. Kronenberg

"How PTHrP Regulates Chondrocyte Differentiation"

Dr. Kronenberg is Chief of the Endocrine Unit at the Massachusetts General Hospital and Professor of Medicine at the Harvard Medical School. There he leads a research group that studies the actions of parathyroid hormone and parathyroid hormone-related protein, with a particular emphasis on bone development, bone biology, calcium homeostasis, and the roles of osteoblast-lineage cells in hematopoiesis. Dr. Kronenberg's laboratory in recent years has used a number of genetically altered strains of mice to establish the role of signaling by the PTH/PTHrP receptor in bone.

Oral Presentations (Top 5 Abstract Submissions)

Michelle Hurchla (*Weilbaecher Lab*)

"Bone Remodeling Regulated by ARF is a Therapeutic Target for Prevention of Osteosarcoma"

Kyu Sang Joeng (*Long Lab*)

"Hedgehog Signaling Inhibits Differentiation of Osterix+ Progenitors to Mature Osteoblasts"

Kaihua Zhang (*Abu-Amer Lab*)

"Constitutive Activation of IKK β is Sufficient for RANK-Independent Osteoclast Differentiation and Osteolysis"

Muhammad Rai (*Sandell Lab*)

"Specific regions of the genome contribute to articular cartilage regeneration and ear-wound healing in mice"

Valarie Salazar (*Civitelli Lab*)

"Smad4 Antagonizes Canonical β -catenin Signaling and Proliferation in the Osteoblast Lineage"

Poster Winners



Michael Brodt (*Orthopaedic Surgery – Silva Lab*)

"The Effect of Age and Baseline Bone Turnover on Cortical and Trabecular Responses to Tibial Compression in Mice."



Corinne Decker (*Orthopaedic Surgery—Faccio Lab*)

"PLCy2 SH2 Domain Targeting Leads to Blockade of Osteoclastogenesis in vitro and in vivo"



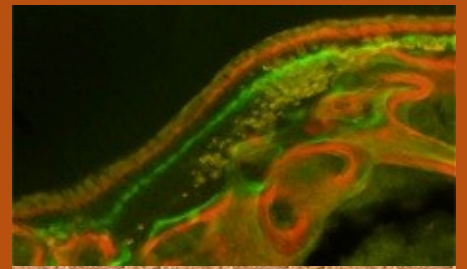
Takahata, Yoshifumi (*Anatomic & Molecular Pathology—Teitelbaum Lab*)

"IL-17 Mediates Estrogen-Deficient Osteoporosis in a TRAF6-Dependent Manner"

Remember to include reference to support from the Center in your abstracts and publications. Cite Grant # **P30AR057235** from the National Institute Of Arthritis And Musculoskeletal And Skin Diseases.

If you have any questions regarding the Core, please contact:

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Dr. Kronenberg



M. Rai



K. Zhang



V. Salazar



Poster Session

