

Center for Musculoskeletal Research

Vol 2 | Issue 1 | July 2010

<http://musculoskeletalcore.wustl.edu/home.aspx>



WORK WITH THE BEST
TO GET THE BEST RESULTS

Who we are...

In 2009, we were awarded a P30 center grant from the NIAMS called Center for Musculoskeletal Biology and Medicine.

The primary goals of the Center are:

- to enhance the productivity of established musculoskeletal scientists
- to support young investigators in our field
- to facilitate collaboration between established skeletal scientists and those bringing non-traditional questions and strategies to our discipline.

The major programmatic focus of the CMR is to support and expedite the creation and analysis of animal models of relevance to musculoskeletal biology and disease.

What we can do for you...

Three Research Cores supported:

- Musculoskeletal Structure and Strength (Core B)
- In Situ Molecular Analysis (Core C)
- Mouse Genetic Models (Core D).

Please visit our website to see how you can take advantage of our services.

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Latest Pilot & Feasibility Award

Robert Mecham

“Regulation of bone remodeling by microfibril associated proteins”



Save
the
Date

1st Annual
Winter Symposium
January 27, 2010

Core A—Administrative Core

<http://musculoskeletalcore.wustl.edu/Core/corea/OverviewA.aspx>

The goal of the Administrative Core is to provide the overall leadership and management of the Research Core Facilities, the Pilot and Feasibility Program and the Enrichment Program. For more information on Core A, please visit our website.

Core B—Structure and Strength Core

<http://musculoskeletalcore.wustl.edu/Core/coreb/OverviewB.aspx>

Structure and strength are perhaps the most relevant properties when assessing functional outcomes in animal models related to musculoskeletal biology and medicine. The objectives of the Musculoskeletal Structure and Strength Core are:

- Imaging with plane radiography, dual-energy X-ray absorptiometry (DXA), pQCT, microCT (post mortem and in vivo)
- Mechanical testing of bones, tendon and muscle.

For more information on Core B, please visit our website.

Core C—In Situ Molecular Analysis Core

<http://musculoskeletalcore.wustl.edu/Core/corec/OverviewC.aspx>

- Specialized bone, cartilage, and tendon histology
- Specialized antibodies and DNA probes
- Deconvolution microscopy
- Histomorphometry

For more information on Core C, please visit our website.

Core D—Mouse Genetics Models Core

<http://musculoskeletalcore.wustl.edu/Core/cored/OverviewD.aspx>

The Mouse Genetic Models Core will be dedicated to supporting the production, preservation and sharing of genetically altered mice for Center investigators in a timely and reliable manner. Specifically, the Mouse Genetic Models Core provides the following services:

1. Production of genetically modified mice.
2. Cryopreservation of transgenic mouse strains.
3. Consultation and education on mouse genetic models.
4. Establish and maintain a campus-wide database for transgenic mouse strains pertinent to musculoskeletal studies.

For more information on Core D, please visit our website .

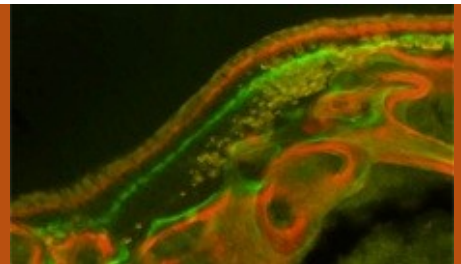
If you have any questions regarding the Core, please contact:

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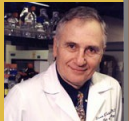
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Core B

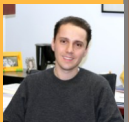
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