



**DVD and Protocols Book Order Form**

**Couldn't attend the Pre-Meeting Workshop on Techniques in Bone and Muscle Biology? It's not too late to order the instructional DVD and protocols book.**

*The DVD will demonstrate the methods being offered in each of the Workshop Modules and provide visual reference for researchers who wish to incorporate these techniques into their own research. In addition, the book includes over 150 pages of detailed protocols that will be included for each of the methodologies, along with useful tips and illustrations that should aid in their incorporation into your laboratory. Workshop modules and techniques include:*

**Bone and Muscle**

- Tips on Dissection and Fixation of Tissues
- Plastic and Frozen Embedding and Sectioning of Bone Tissues
- Standard and Specialized Staining Procedures for Bone Tissues
- Muscle Histochemical Preparation
- Resin Embedding – Acid Etching to Visualize the Lacunar-Canalicular System

**Muscle Functional Testing**

- Calcium Imaging Techniques
- Skeletal Muscle Contractility – In Vitro
- Skeletal Muscle Contractility – In Situ

**Isolation of Primary Cells**

- Primary Bone Cell Isolation
- Muscle Stem Cell Isolation and Primary Cell Culture
- Muscle Fiber Isolation

**In vitro Cell Loading**

- Fluid Flow Shear Stress (Streamer Gold System)
- Two Chamber Shear Stress
- Substrate Stretching (Flexcell System)

**Ex vivo Characterization of Bone Biomechanical and Structural Properties**

- Raman
- FTIR
- Nanoindentation
- Torsional and 3-point Bending

**Bone-Muscle Immobilization**

- Hindlimb Suspension
- Botox Injection

**Live Imaging of Bone Cell and ECM Dynamics**

- General Considerations for Live Cell Imaging
- Preparation of Specimens for Live Imaging Experiments
- Data Review and Processing
- Quantifying Dynamic Events

**In vivo Bone Techniques**

- PIXIMUS Densitometry
- Faxitron X-ray
- MicroCT Imaging of Long Bones and Vertebrae
- Forearm Mechanical Loading

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American Society for Bone and Mineral Research  
 Attention: DVD Order Forms  
 2025 M Street, NW, Suite 800  
 Washington, DC 20036-3309, USA