

**ASBMR Symposium**  
**Current Concepts in Bone Fragility: From Cells to Surrogates\***  
**September 7, 2017 - Colorado Convention Center, Denver, Colorado, USA**

**Poster Viewing and Breakfast**

**7:15 am – 8:00 am**

**Concepts of Bone Fragility**

**8:00 am – 9:30 am**

**Hierarchical Material in Nature: How Bone is Tough**

**Interaction of Skeletal Traits Determines long Bone Fragility**

**Beyond Whole Bone Strength**

**Coffee Break**

**9:30 am – 10:00 am**

**Multi-scale Characterization on Bone Strength**

**10:00 am – 11:40 am**

**Multiscale Characterization of Human Bone: the Osteocyte Network**

**Beyond Bone Mineral: Contributions of Collagen and Non-collagenous Proteins to Bone Strength**

**Contribution of Cortical vs Trabecular Bone to Whole Bone Strength**

**Mechanical Loading, Structural heterogeneity and Bone Strength**

**Effect of Osteoporosis Therapies on Bone Mechanical Properties: Preclinical Studies**

**Lunch and Poster Viewing**

**11:45 am – 12:45 pm**

**Beyond Areal BMD**

**12:45 pm – 2:20 pm**

**Extending DXA Beyond BMD – TBS**

**Contribution of Bone Microarchitecture to Fracture Risk**

**Bone Structure: Beyond Standard Metrics**

**Identifying Patients with Fragile Bone via QCT-based FEA**

**Coffee Break**

**2:20 pm – 2:50 pm**

**Clinical Conundrums**

**2:50 pm – 3:50 pm**

**Atypical Femoral Fractures: Clinical and Genetic Risk Factors**

## **Atypical Femoral Fractures: Bone Tissue Contribution?**

### **Skeletal Fragility in T2D**

#### **Break**

**3:50 pm – 4:00 pm**

## **Is Now the Time for Surrogate Endpoints in Osteoporosis?**

**4:00 pm – 5:00 pm**

### **Introduction**

### **The FNIH Bone Quality Study**

### **Clinical's Perspective: What do We Need?**

### **Panel Discussion**

#### **Reception and Poster Viewing**

**5:00 pm – 6:30 pm**

***\*Program subject to change***