



# **SKELETAL MUSCLE DISORDERS**

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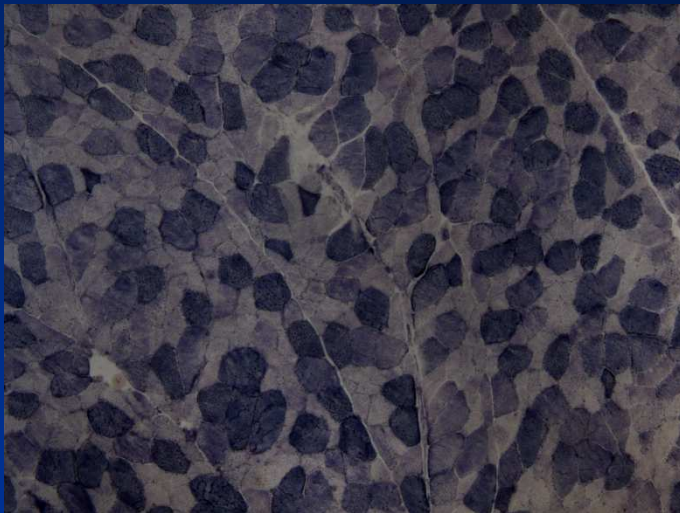
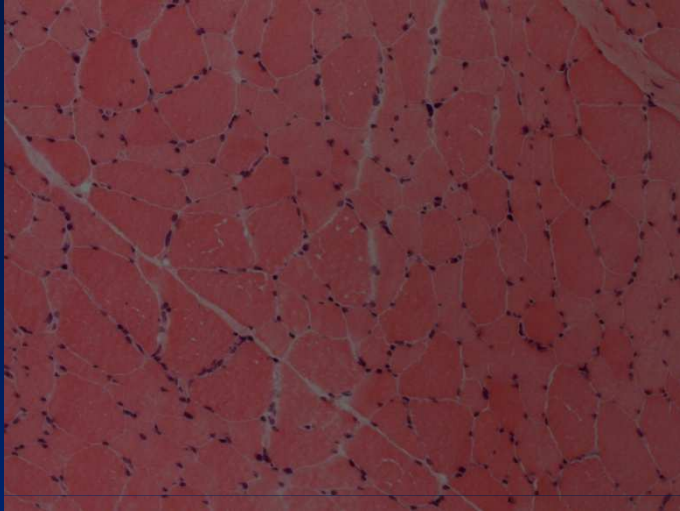
## Topics of scientific research

- **Idiopathic inflammatory myopathies**
- **Sporadic inclusion body myositis (s-IBM)**
- **Myofibrillar myopathies**
- **Brody disease and Brody syndrome**
- **Mitochondrial diseases**

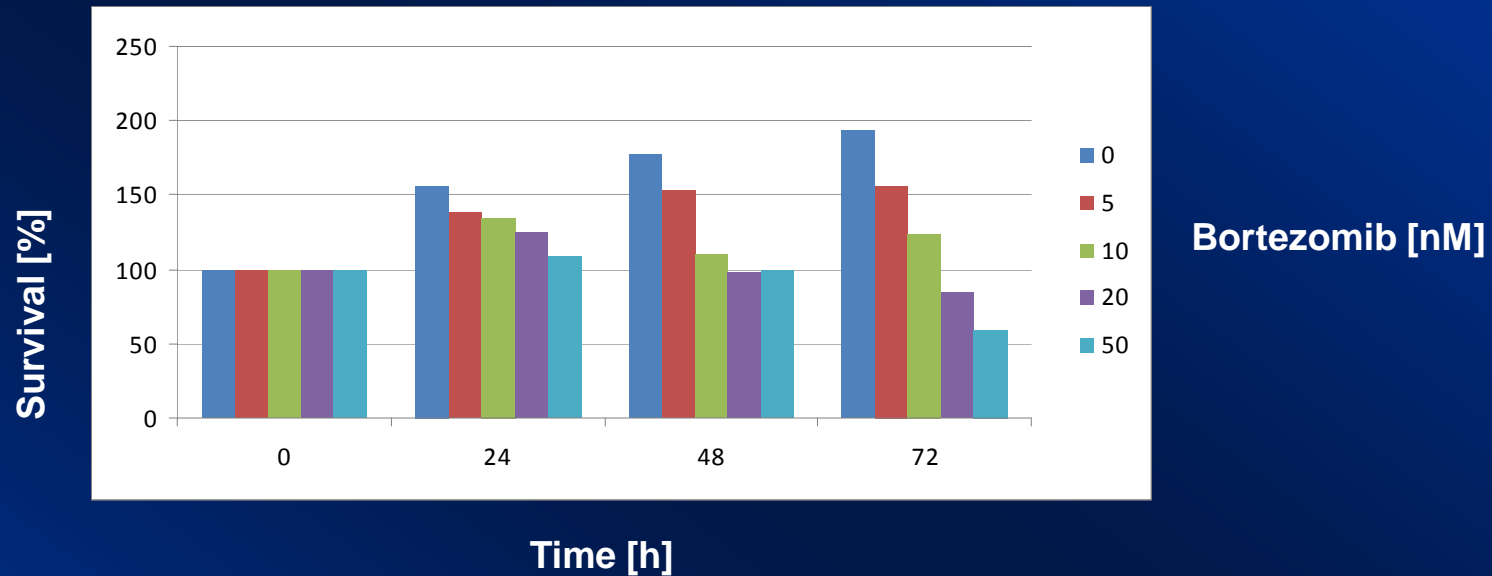
## **Current research interests**

- **Identification of muscle specific antigens in patients with dermatomyositis, polymyositis and paraneoplastic myositis**
- **Involvement of RNAPII-Associated Proteins (RPAPs) in muscle diseases**
- **Characterization of protein aggregates in myofibrillar myopathies using LCM (Laser Capture Microdissection)**
- **Zebrafish as animal models of myofibrillar myopathies**
- **The pathogenetic mechanisms of Brody Disease and Brody Syndrome**
- **The fate of ragged-red fibers and the mechanisms of mitochondrial proliferation in mitochondrial diseases**

## Bortezomib and muscle toxicity



## Primary cultures of normal human muscle



Three culture sets which were established from satellite cells derived from a portion of diagnostic muscle biopsy of three different patients who were considered free of muscle diseases

## **Future directions**

**Generation and characterization of a reliable animal model  
(mice, rat) of bortezomib myotoxicity**

**Understanding the mechanism of action in skeletal muscle**