

Tentative schedule

Note: All times are Central Daylight Time (UTC-5)

Thursday 5/15/2025

09:30 am	Welcome	Thomas Irving
09:45 am	Introduction to scientific programs at BioCAT	Weikang Ma

Thick filament structure and regulation

10:00 am	Muscle myosin dynamics in hibernation	Julien Ochala
10:40 am	Annotating the X-ray diffraction pattern of vertebrate striated muscle	Roger Craig and Natalia Koubassova
11:20 am	Cardiac performance and hierarchical activation of thick filament	Ilaria Morotti

12:00 pm Break

12:30 pm	Structure-Function Studies of the MYH7 R403Q mutation	Michael Regnier
01:10 pm	Regulation of contraction of slow-twitch skeletal muscle	Cameron Hill
01:50 pm	Molecular basis of length-dependent activation (LDA) in cardiac muscle	Alice Arcidiacono
2:30 pm	Breakout Sessions for Discussion	

Friday 5/16/2025

Translational Studies in Muscle Research

9:30 am	Probing relaxed myosin states in hypertrophic cardiomyopathy by second harmonic-generation microscopy	Leonardo Sacconi
10:10 am	Implications of Obesity on Myofilament Function in Heart Failure with Preserved Ejection Fraction.	Vivek Jani
10:50 am	Investigating the structural effects HCM causing variants on the cardiac sarcomere	Christopher McAllister
11:30 am	Desmoglein-2 deficiency results in cardiac dysfunction by compromising both Z-disc- and intercalated disc-mediated mechanotransduction	Maicon Landim-Vieira

12:10 pm Break

12:40 pm	Regulation of the structure-function relationship by small molecule myosin modulators in porcine cardiac muscle	Kristi Kooiker
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Titin and MyBP-C

1:20 pm	Switching ON of titin in relation to dual filament activation in skeletal muscle	Vincenzo Lombardi
2:00 pm	Exploring the role of titin and MyBP-C in skeletal and cardiac muscle	Anthony Hessel
2:30 pm	Breakout Sessions for Discussion	