

WINTER SEMESTER 2023/2024

RTG 2756 CYTAC SEMINAR SERIES

TUESDAY, OCTOBER 24
17:15 IN HS5

CYTAC

RTG 2756

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DUAL FILAMENT REGULATION OF MUSCLE CONTRACTION AND THE ROLE OF TITIN

Muscle contraction at the level of the sarcomere, the $\sim 2 \mu\text{m}$ long structural unit of the striated (skeletal and cardiac) muscles, is controlled by activation of both the thick filament, containing the myosin motors, and thin filament, containing the actin support. X-ray diffraction experiments show that titin takes part in thick filament activation by biasing the myosin motor orientation towards the actin.

