Genomic Approaches to Plant Development

Seminar

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What's in the Maize Centromere/Kinetochore Complex?

Thursday, April 17
3:40 pm
Walters Life Sciences M311

Centromeres are those places on chromosomes where spindle microtubules attach during mitosis and meiosis (i.e., they act as kinetochores). They are therefore essential for the propagation of genetic information to daughter cells in all eukaryotes. Despite this important role, little is known how this function is achieved. Centromeres tend to contain repetitive DNA, such as microsatellites and retrotransposons, which may be involved in recruitment of proteins involved in kinetochore function. Dr. Dawe’s lab is taking a multi-faceted approach to studying centromere structure and kinetochore function in the genetically tractable model organism maize.

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