Meiosis with Labeled Parental Genomes

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How it was done:

- Intergeneric F₁ hybrid, *Lolium multiflorum* (2n=14) x *Festuca pratensis* (2n=14)
- Anthers with desired stages of meiosis collected and fixed, preps made by squashing
- Total genomic DNA of *L. multiflorum* labeled with DIG-FITC (green) by nick translation and hybridized to chromosomes with total genomic DNA of *F. pratensis* as a block; all chromosomes counterstained with PI (important in interpretation)
- Selected cells photographed through green and red filters
- Individual photographs adjusted for brightness and contrast, and merged
- Imperfections, debris, etc retouched out of the pictures; pictures rotated and trimmed
- Pictures in each panel (stage) adjusted to similar contrast, brightness, tone
- Each slide has 2-3 pictures of the same stage, the earliest on left





































































