Title: Modifiers of sister chromatid cohesion loss
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Abstract: Sister chromatid cohesion is essential for faithful mitosis, as premature cohesion loss leads to random chromosome segregation and aneuploidy, resulting in abnormal development. To identify specific conditions capable of restoring defects associated with cohesion loss, we screened for genes whose depletion modulates Drosophila wing development when sister chromatid cohesion is impaired (a first report on the results of this screen can be found here: https://www.cell.com/current-biology/pdfExtended/S0960-9822(18)30853-4). This project aims to validate other hits arising from this screen with regard to their ability to modulate defects associated with sister chromatid loss.