

On the cover

An anaphase cell carrying a fluorescent mark (green) at a single chromosomal locus correctly segregates its sister chromatids (blue). Thompson and Compton find that the tumor suppressor p53 prevents cells with mis-segregated chromosomes from proliferating further.

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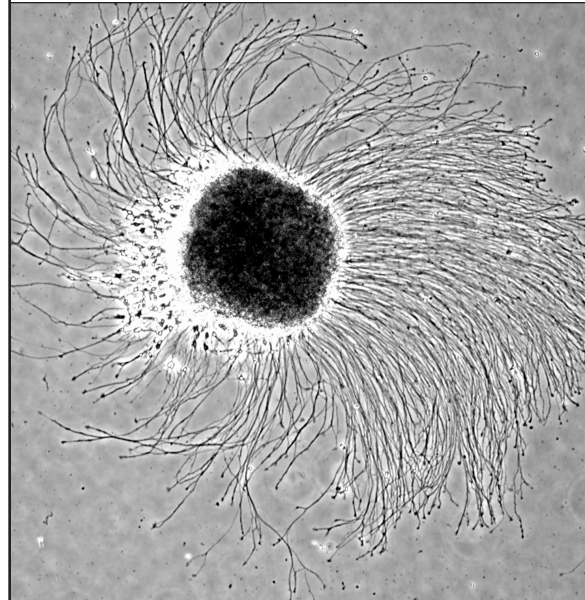
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In the absence of environmental cues, the neurites of explanted hippocampal neurons inherently turn to the right when grown on 2D substrates. Tamada et al. show that this is due to the rotation of actin-based filopodia in the neurites' growth cones.

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