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Cover illustration: In gravitropism, the gravity signal is perceived by sedimentable amyloplasts in statocytes, and then transmitted to elongating cells, changing the direction of growth. The signal perception mechanism for growth regulation by gravity is independent of that for gravitropism. The signal may be directly received by mechanoreceptors on the plasma membrane of elongating cells, and utilised for regulation of the growth rate, after transformation and transduction within each cell. (See Soga *et al*. pp. 175–179).
