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<sup>OA</sup>Open Access paper

**Cover** The *Caenorhabditis elegans* semaphorin–plexin signaling system regulates cellular morphology via the stimulation of mRNA translation in epidermal ray precursor cells. Shown here is a fluorescence image of a transgenic wild-type male worm expressing an *EGFP::unc-54*/myosin heavy chain gene 3'UTR reporter construct and a *mRFP::unc-60A*/cofilin gene 3'UTR reporter construct under the control of the *lin-32* promoter in tail ray precursor cells. The epidermal cell boundaries are visualized with the adherens junction marker *AJM-1::GFP*. Semaphorin signaling simultaneously stimulates global translation and preferential translation of *unc-60A* via its 3'UTR in ray precursor cells. (For details, see Nukazuka et al., p. 1025.)