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Cover illustration: Top left: confocal image of the distal portion of a mature embryo showing root patterning in the wild type (WT). Bottom left: expression of the DR5::GFP reporter in a 3-day-old primary root (red, propidium iodide; green, GFP signal), which reveals the auxin response maximum. Top right: WT primary root treated for 24 h with the auxin transport inhibitor NPA shows re-patterning at the stem cell niche region. Bottom right: cross section of the root meristem in the scr-4 mutant showing the characteristic single layer of ground tissue (see Perez-Perez pp. 163–171).