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Cover illustration: *Bienertia sinuspersici* has an unusual structural form of C_4 photosynthesis, which occurs in individual photosynthetic cells with two types of chloroplasts. The confocal microscopy image of a live cell shows membranes (green, $DiOC_6$-3 stain), the nucleus (blue, Hoechst 33342 stain), chloroplasts (red, autofluorescence). The scheme illustrates capture of atmospheric CO_2 in the C_4 pathway and donation of CO_2 from C_4 acids to the C_3 cycle (see Park *et al*. pp. 1–13).