On the Cover: Sporadically, plastids extend and retract stroma-filled tubules called “stromules” that branch and form polygons. Schattat et al. (1667–1677) visualized stromules and the neighboring endoplasmic reticulum (ER) simultaneously and observed a high degree of coincidence in their dynamic behavior. Their findings open new avenues for understanding mechanisms of transfer and exchange of lipids and metabolites between plastids and the ER. The cover picture shows a three-dimensional volume rendered ferredoxin NADP(H) oxidoreductase-enhanced green fluorescent protein-labeled chloroplast in a confocal image with stromule branches extending along the red fluorescent protein-HDEL-highlighted ER. Image and volume rendering by Martin Schattat and Kiah Barton.

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SYSTEMS BIOLOGY, MOLECULAR BIOLOGY, AND GENE REGULATION


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