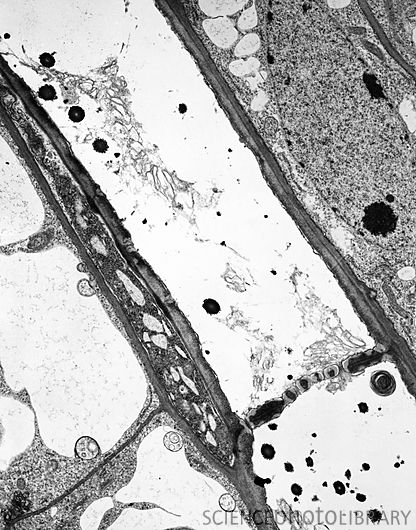
[](http://www.sciencephoto.com/image/390202/large/C0095852-Phloem_sieve_tube,_TEM-SPL.jpg)

**Phloem sieve tube, TEM**

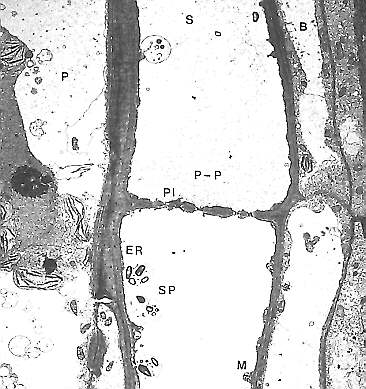
**C009/5852 Rights Managed**

**Credit:** [BIOPHOTO ASSOCIATES/SCIENCE PHOTO LIBRARY](http://www.sciencephoto.com/media/390202/enlarge)

**Caption:** Phloem sieve tube. Transmission electron micrograph (TEM) of a longitudinal section through the stem of a thale cress (Arabidopsis thaliana) plant. Phloem sieve tubes are seen diagonally across centre. A sieve plate between the cells is seen towards bottom right. The phloem transports carbohydrates and hormones around with plant.

**Release details:** Model and property releases are not available

## Longitudinal Section Through the Phloem of *Cheiranthus cheiri* (Brassicaceae)

  
Sieve tube without (S) and companion cells with nuclei (B). They are bordered by a parenchyma cell (P). The sieve tube contains [sieve tube plastids (SP of the S-Type)](http://www.biologie.uni-hamburg.de/b-online/e49/siebplas.htm), mitochondria (M), endoplasmatic reticulum (ER) and P-proteins (P-P). The sieve plate (P1) is perforated by pores. (H.-D. BEHNKE, 1981)

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