



Figures 4-7 to 4-13. Transfer cells (TCs) in Heliotropiaceae. 4-7. *Heliotropium europaeum*, LM, TS, mericarpid, one layered testa of TCs, perivascular tissue of TCs accompanies the funicular bundle to the placenta. 4-8. *H. europaeum*, SEM, TS, seed in the region of the funiculus, a two layered perivascular tissue of TCs surrounds the funicular bundle. 4-9. *H. humifusum*, TEM, LS, mericarpid in the region of the funiculus leaving the endocarp, TCs in the perivascular tissue of the funiculus leaving the endocarp, in this transition region the lignified endocarp also partly consists of transfer cells. 4-10. *H. europaeum*, LM, LS, mericarpid in the region of the funiculus leaving the endocarp, in this region testa, perivascular tissue and also partly the endocarp consist of TCs. Figures 4-11 to 4-13. *Heliotropium erosum*, mericarpids after incubation in astrablue solution and removal of the pericarp. 4-11. The testa removed, blue staining of the funicular region (arrow). 4-12. the embryo removed, blue staining of the entire testa (arrow). 4-13. entire seed with testa stained blue. **Abbreviations:** endocarp (en), funicle (f), light micrograph (LM), longitudinal section (LS), placenta (pl), scanning electron micrograph (SEM), seed (s), testa of transfer cells (t), transfer cells (tf), transverse section (TS), transmission electron micrograph (TEM).