



Figures 4-7 to 4-13: Transfer cells (TCs) in Heliotropiaceae. 4-7: *Heliotropium europaeum*. Light micrograph (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 funicle, a two-layered perivascular tissue of TCs surrounds the funicular bundle. 4-9: *H. humifusum*. Transmission electron micrograph (TEM), LS, mericarpid in the region of the funicle leaving the endocarp, TCs in the perivascular tissue of the funicle leaving the endocarp, in this transition region the lignified endocarp also partly consists of TCs. 4-10: *H. europaeum*. LM, LS, mericarpid in the region of the funicle leaving the endocarp; in this region, testa, perivascular tissue and also the endocarp (in part) consist of TCs. 4-11 to 4-13: *H. erosum*, mericarpids after incubation in astra blue solution and removal of the pericarp. 4-11: Testa removed, blue staining of the funicular region (arrow). 4-12: Embryo removed, blue staining of the entire testa (arrow). 4-13: Entire seed with testa stained blue. en: endocarp, f: funicle, pl: placenta, s: seed, t: testa of TCs, tf: TCs.