



Figure S1. Flower and stigma sizes are diversified in the Brassicaceae. Images of (A) *B. napus* and *A. thaliana* flowers, (B) *A. lyrata* flower, (C) *A. lyrata* and *A. thaliana* stigmas, and (D) *B. napus* and *A. thaliana* stigmas. *B. napus* possesses a larger flower and stigma size compared to *A. lyrata* and *A. thaliana*. This increased size may result in different patterns of secretory activity to promote pollen acceptance (i.e. multivesicular bodies versus vesicles). However, there are no obvious differences in the sizes of the stigmatic papillae. Both *B. napus* and *A. lyrata* stigmas are densely packed with stigmatic papillae in comparison to the *A. thaliana* stigma. Scale bars (a, b) 1 mm; (c, d) 0.5 mm.