

Fig. 1S. The limiting step of CO_2 assimilation. The black circles with bars denote the mean measured CO_2 assimilation rates (P_n) with SE of different leaf samples of *Populus alba*. The limitation by RuBP carboxylation (A_c , solid line) or RuBP regeneration (A_j , dash line) was analyzed with the obtained parameters.

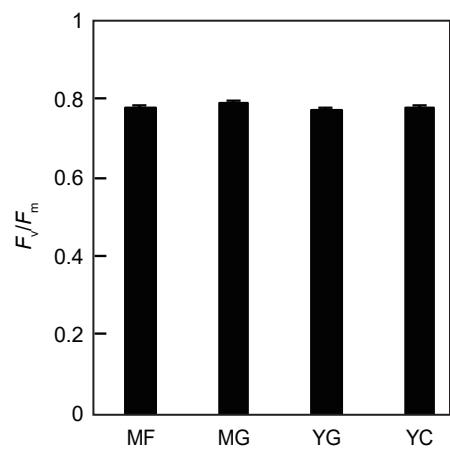


Fig. 2S. The maximum photosynthetic efficiency of *Populus alba*. Each data point represents mean \pm SE (n=6).

Table 1S. The growth condition of *Populus alba*.

	Daily average temperature [°C]	Light [$\mu\text{mol m}^{-2} \text{ s}^{-1}$]	Photoperiod [h]
Phytotron	25	150	16
Glasshouse	24 - 28	95% sun	12 - 15
Field	21 - 28	Full sun	12 - 15