


Breeding system of Glandularia species native to Argentina

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Resumen

Breeding system of *Glandularia peruviana*, *G. platensis* and *G. glandulifera* was studied through self and cross hand pollination experiments and observations of in vivo pollen tube growth. Self-pollinated flowers produced no fruits in all species. In cross pollination experiments, the reproductive success was 33, 8 and 63% for *G. peruviana*, *G. platensis* and *G. glandulifera*, respectively. In the three species, pollen grains germinated normally on the stigma of self and cross pollinated pistils, further growth of the pollen tube was inhibited at different parts of the style or in the ovary when self pollination occurred. Self-incompatibility system was confirmed since no fruits were obtained in self-pollinated pistils. Pollen tube arriving to the ovary in self-pollinated pistils suggested late acting self incompatibility system.

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