

Preliminary report on inbred line selection of wax gourd (*Benincasa hispida* Cogn.)¹

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summary

Some varieties of waxgourd were introduced from India by Council of Agriculture, and then were distributed to Hualien DAIS. Those waxgourds showed high vigorous in growth habit, which could be used in breeding program to improve local cultivars. Highly diversity in fruit shape exist in those accessions. The fruit shapes were classified into 4 types by fruit shape index (fruit length/width), which named round, short oval, short cylinder, and long cylinder. By the use of inbred line selection method to manipulate those accessions in 2 generations, the variations of fruit length and fruit shape are decreased and coincided with selection aim. Further test in quality and other major characteristics is needed before good line is release as local cultivar.

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