

Title Development of floral organ and physiochemical changes of cut *Iris hollandica* 'Blue Magic' according to plant growth regulators and storage temperature

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#### Abstract

The development of floral and physiochemical changes by plant growth regulators ( $GA_3$ ,  $GA_{4+7}$ , BA, or Promalin ( $GA_{4+7}$  + BA)) and storage temperature (5°C or 20°C) in cut *Iris hollandica* 'Blue Magic' were determined. The flowering rate and level were increased with Promalin pre-treatment and 5°C low storage temperature as compared to other plant growth regulators or 20°C high temperature pre-treatment. The elongation of pedicel and development of ovary were increased by exogenous NAA treatments with lanolin past after decapitation of the stigma. There were quantity differences in ovary by the low storage temperature with 5°C at the band of 50 kDa, while new bands were synthesized in pedicel by the low storage temperature with 5°C at the band of 62 kDa.