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Horticultural Research (Japan)

Vol. 8 (2009) , No. 4 407-412

Characteristics of the Reproductive Organ and the Fruit of the Japanese Plum ‘Kiyō’

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(Received February 2, 2009)

(Accepted April 9, 2009)

We investigated the cause of poor fruit set in Japanese plum ‘Kiyō’ (Lindl.). Early fruit drop of ‘Kiyō’ was heavier than that of ‘Taiyō’. In ‘Kiyō’ in 56 days after full bloom was 80.4 and 95.5%, respectively. The difference between ‘Kiyō’ and ‘Taiyō’ in the incidence of imperfect wood’ pollen tube elongation on the style. However, ‘Kiyō’ demonstrated that the pollen tubes were nonuniform in size and shape. ‘Taiyō’ showed 91.6% stainable germination rate, respectively, whereas those of ‘Kiyō’ were 70.4 a

Furthermore, developed seeds obtained from 'Kiyō' varied in weight and the percentage of developed seed of 'Kiyō' (71.3%) was less than 'Taiyō' (93.0%). Chromosome observation of immature leaflets developed was triploid with 24 chromosomes.

Key Words: [chromosome](#), [flow cytometry](#), [pollen fertility](#), [poor fr](#)

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To cite this article:

Saeko Obayashi, Masaki Yahata, Yoshiyuki Nakajo, Akiko Fujii, Harada and Toshihiko Takagi. 2009. Characteristics of the Reproductive Ploidy Level in Japanese Plum 'Kiyō' . Hort. Res. (Japan) 8: 407-

doi:10.2503/hrj.8.407