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## Horticultural Research (Japan)

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## Verification for S-genotype of Japanese Pear 'Housu 'Shinseiki' and 'Seigyoku' by Cross Pollination Test

<u>Yoshihiko Sato<sup>1</sup></u>, <u>Osamu Terai<sup>1</sup></u>, <u>Toshihiro Saito<sup>1</sup></u>, <u>Kazuyuki Abe</u> and <u>Kazuo Kotobuki<sup>1</sup></u>

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The S-phenotypes (self-incompatibility phenotypes) of Japanese pe Nakai) 'Chikusui', 'Shinseiki', 'Seigyoku' and 'Housui' determined molecular markers were verified by cross pollination test. As an ind phenotype, FC-14 was selected from progenies of 'Kikusui' ( $S_2S_4$ by cross pollination and progeny tests. 'Chikusui', 'Shinseiki' and ' incompatibility with FC-14, therefore the S-phenotype of these culti  $S_3S_4$ . 'Housui' indicated cross incompatibility with Nashi Hiratsuka Hiratsuka No.1 ('Ishiiwase' × 'Nijisseiki') × 'Kousui'] on cross polphenotype of Nashi Hiratsuka No.24 and 'Housui' was presumed.' phenotype analysis of Nashi Hiratsuka No.24 and its parents, Nash 'Kousui'. This presumption was confirmed by segregation for S-phe 'Housui' × 'Hakkou'. Thus, the S-phenotypes of 'Chikusui', 'Shins 'Housui' were consistent with the S-genotypes determined by mole

Key Words: cross incompatibility, fruit set percentage, phenotype

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