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ONLINE ISSN : 1880-7577

PRINT ISSN : 0021-4795

Mokuzai Gakkaishi

Vol. 53 (2007) , No. 3 p.157-162

[\[PDF \(829K\)\]](#) [\[References\]](#)

Identification of *Quercus* Section *Prinus* Species using RAPD Markers

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(Received April 19, 2006)

(Accepted January 10, 2007)

Abstract: Species-specific random amplified polymorphic DNA (RAPD) markers of *Quercus serrata* Thunb. (konara), *Quercus crispula* Blume (mizunara) and *Quercus alba* Linn. (white oak) were investigated to identify the species of Section *Prinus* in the subgenus *Quercus* by using molecular genetic information. Polymerase Chain Reaction was performed with a set of 10 mer or 12 mer primers and total DNA as template. A total of 144 (72 sets) primers were used in the RAPD analysis. We found that six RAPD markers were species-specific : one distinguishes konara from mizunara and white oak ; four distinguish mizunara from konara and white oak ; and one distinguishes white oak from konara and mizunara. All of the six RAPD markers were highly reproducible and resulted from distinct amplicons.

Keywords: *Quercus serrata*, *Quercus crispula*, *Quercus alba*, RAPD

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To cite this article:

Seungmin Lee, Eri Tamaki, Sadanobu Katoh and Takeshi Furuno: Mokuzai Gakkaishi
Vol. 53, No. 3, 157-162 (2007) .



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