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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
GENEVA

**WORKING GROUP ON BIOCHEMICAL AND MOLECULAR
TECHNIQUES AND DNA PROFILING IN PARTICULAR**

Ninth Session
Washington, D.C., June 21 to 23, 2005

**IDENTIFICATION OF QUINCE VARIETIES USING SSR MARKERS
DEVELOPED FROM PEAR AND APPLE**

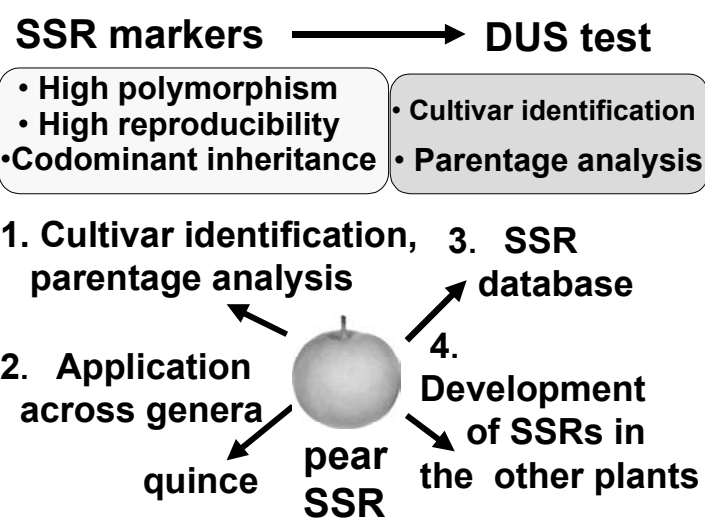
Document prepared by experts from Japan

1. The BMT agreed that, where agreed by the relevant experts, the presentations made at the meeting should be made available in the BMT document section of the UPOV website, as addenda to the relevant documents. This document contains a copy of the presentation made by Mr. Tesuya Kimura (Japan), for document BMT/9/6.

Identification of Quince Varieties Using SSR Markers Developed from Pear and Apple

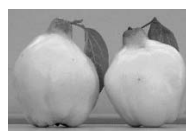
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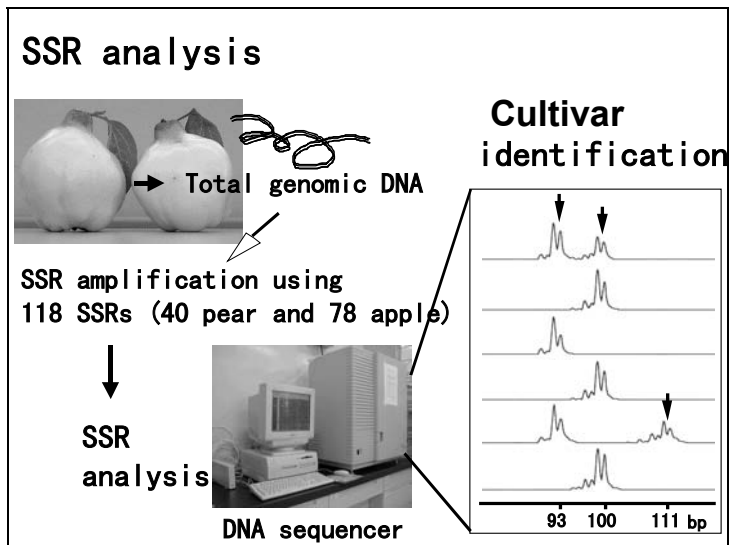


1. Identification of quince varieties

No.	Cultivar name	Origin	Use
1	Acucar	unknown	unknown
2	Angers	France	rootstock
3	BA-29	France	rootstock
4	Champion	USA	fruit
5	Cheldow	unknown	rootstock
6	C-26-L-1	unknown	unknown
7	C-98-4	unknown	unknown
8	Doue	unknown	rootstock
9	Kaori (Aomori)	Japan	fruit
10	Kaori (Nagano)	Japan	fruit
11	Portugal	Portugal	fruit/rootstock
12	Quince A	England	rootstock
13	Quince B	England	rootstock
14	Quince C	England	rootstock
15	Smyrna (Akita)	USA	fruit
16	Smyrna (Aomori)	USA	fruit
17	Smyrna (Nagano)	USA	fruit
18	Sydo	France	rootstock
19	Vitory	unknown	rootstock
20	Zairaishu	Japan	fruit



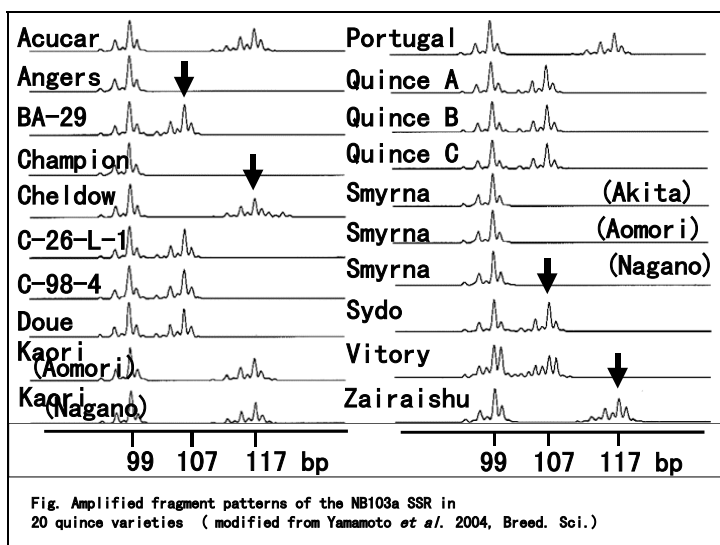
Kaori

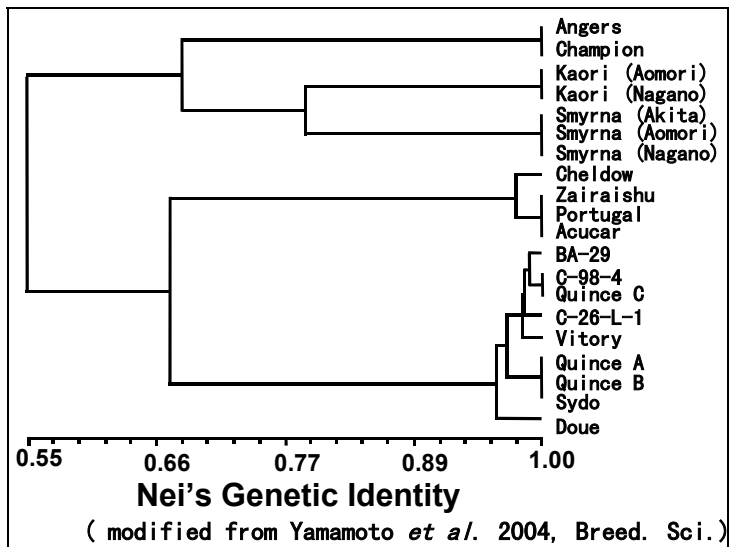




2 . Cross-genus amplification of SSR markers

Amplification			No. of SSRs originated from pear	No. of SSRs originated from apple
quince	pear	apple		
+	+	+	20 (7) *	53 (30)
-	+	+	8	12
+	-	+	0	4 (2)
+	+	-	0	0
-	+	-	12	0
-	-	+	0	9

* No. of SSR markers producing polymorphic bands was shown in parenthesis (modified from Yamamoto *et al.* 2004, Breed. Sci.)





<p><u>NCSS/NIFTS</u></p> <p>T. Kimura T. Yamamoto Y. Ban</p>													
	<p><u>Acknowledgements</u></p> <table border="0"> <thead> <tr> <th><u>NCSS</u></th> <th><u>NIFTS</u></th> </tr> </thead> <tbody> <tr> <td>M. Osono</td> <td>T. Hayashi</td> </tr> <tr> <td>N. Asano</td> <td>C. Nishitani</td> </tr> <tr> <td></td> <td>T. Iida</td> </tr> <tr> <td></td> <td>J. Soejima</td> </tr> <tr> <td></td> <td>T. Sanada</td> </tr> </tbody> </table>	<u>NCSS</u>	<u>NIFTS</u>	M. Osono	T. Hayashi	N. Asano	C. Nishitani		T. Iida		J. Soejima		T. Sanada
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