

BMT/12/12 Add. ORIGINAL: English DATE: May 26, 2010 INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS GENEVA

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

Twelfth Session Ottawa, Canada, May 11 to 13, 2010

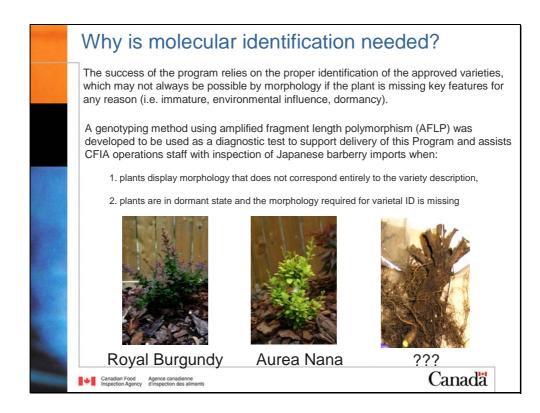
ADDENDUM

APPLICATION OF AMPLIFIED FRAGMENT LENGTH POLYMORPHISM (AFLP) BASED GENOTYPING FOR VARIETY IDENTIFICATION OF BERBERIS THUNBERGII (DC) (JAPANESE BARBERRY) IN A REGULATORY DIAGNOSTIC LABORATORY

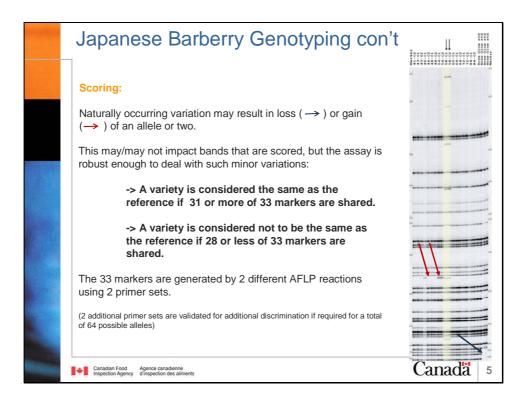
Document prepared by experts from Canada

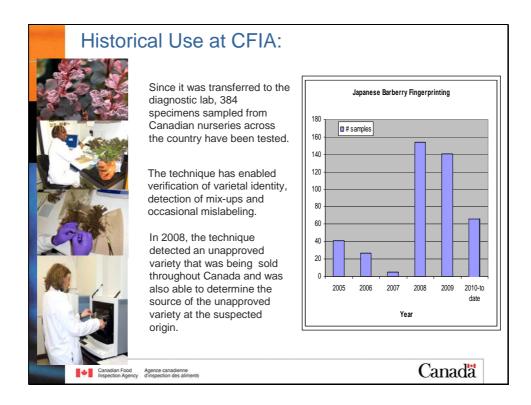


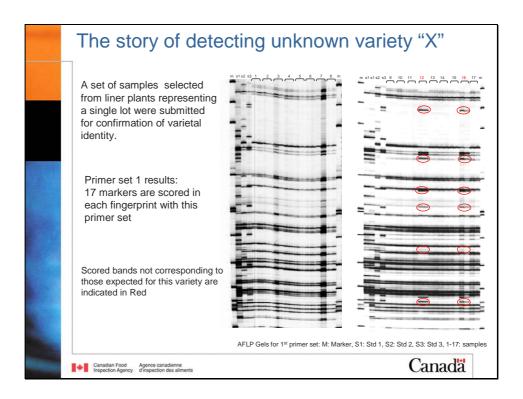


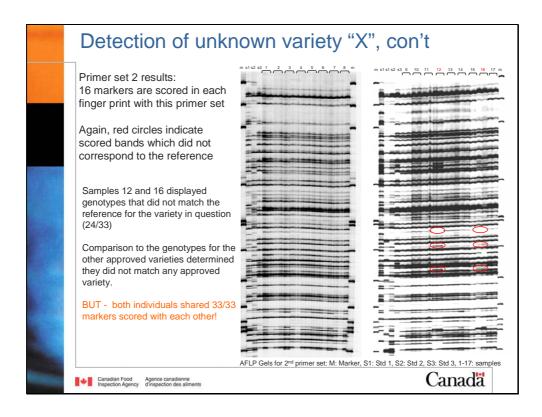


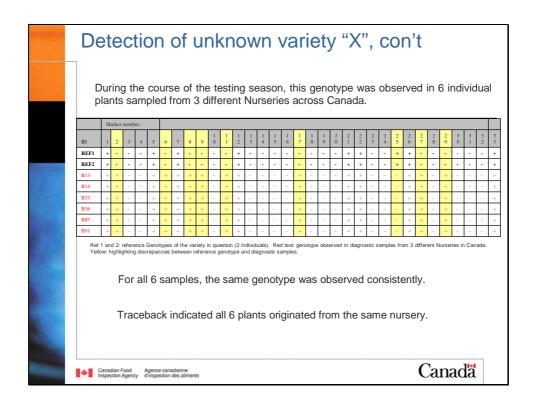
AFLP: A combination of RF	I P and rando	mly primed	
amplification which generate			
		0 1	
comprised of a series of am	plified bands	(i.e. markers).	
The technique does not rely	on sequence	e knowledae.	
	Variety verific Japanese Barber		
	Japanese Barber	ry Rose Glow	
Bands are scored as present	mb-03-bar-41-02	++++	
	mb-03-bar-43-01 mb-03-bar-43-02	++-+-++-+	
	mb-03-bar-46-01	+++++-++++++++++++++++++++++++++	his suit in
(+)/absent(-) for specific bands in	mb-03-bar-46-02 mb-03-bar-48-01	++-+-+-+	
	mb-03-bar-48-02	++++-+	
the fingerprint.	mb-03-bar-54-01	+++-++-+	
	mb-03-bar-54-02 	++++++++-+++++++++++++++++++++	terest and
		++-++-++++	
comparison and historical	mb-03-bar-60-01	++-+-+-+	
reference.	mb-03-bar-64-01 mb-03-bar-64-02	++-+-++-+	
reference.	mb-03-bar-72-01	+++-+-+	-
	mb-03-bar-72-02 mb-03-bar-84-01	++-+-+-+	10303
Sample fingerprints are compared	mb-03-bar-84-02	+++++-+	
against reference fingerprints for	Rose Glow Std	++-+-+-+	
0 1	Rose Glow Std Rose Glow Std	++-+-+-+-+	· · · · · · · · · · · · · · · · · · ·
variety identification and/or	Rose Glow Std	+++-+-+	ASSESS Const
verification.			
	Image: Validation gel for variety Rose Glow.		

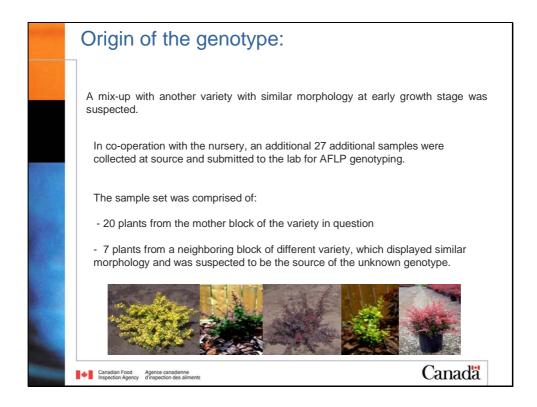


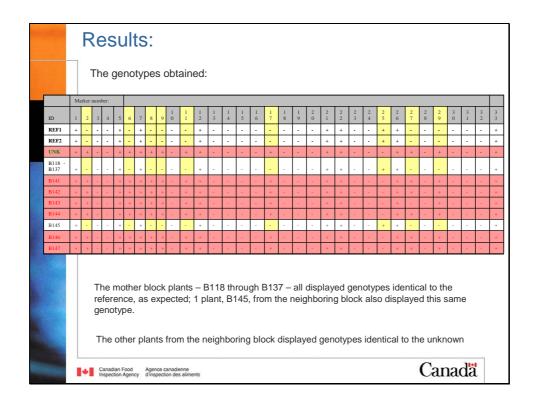


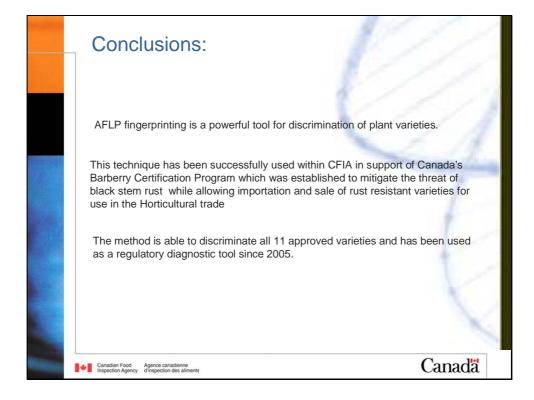
















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