

BMT/12/5 Add. ORIGINAL: English DATE: May 25, 2010 F

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

FUNCTIONAL SNP MARKERS FOR THE VERNALIZATION REQUIREMENT IN BARLEY: AN OPTION 1 APPROACH

Document prepared by experts from the United Kingdom





Presenter Name Carol Norris • Date May 2010	
	NIAB
Outline:	
 Project background Vernalization and photoperiod response genes "Alternative" varieties Detection of off-types Conclusions 	
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			M	Mpx	id g	•3081/G	
			BNHL	RN-H2	l E	- HO	
Name	AFP	SGH	5	5	ź	ā	
HONEY	1320	winter	14	1	0	6	Winter
LABK	1325	winter	16	1	0	G	
BARTON	1326	winter	1A	1	0	G	VRIN-H1 = VV
TOFFEE	1327	winter	1A	1	0	G	
SEVILLA	1336	winter	1A	1	0	G	$V R N - \Gamma Z = V V$
ETHNO	1398	winter	1A	1	0	G	PPD H2 - W (recomposive/delayed
HELIGAN	1402	winter	1A	1	0	G	rru-rnz = w (responsive/delayed
MASQUERADE	1403	winter	1A	1	0	G	flowering under SD)
TABETHA	1404	winter	1A	1	0	G	
	1405	winter	14	1	0	U T	PPD_H1 - variable
MARINER	1436	winter	16	1	0	T	
TURINE	1330	winter	1A	1	0	G	
BISTRO	1392	winter	1A	1	0	G	
MUSETTE	1394	winter	1A	1	0	G	Alternative
1		alternative	SC	1	0	G	Antornative
2		alternative	1A	1	0	G	VRN-H1 = W or S
3		alternative	SA	1	0	т	
4		alternative	14*	0	0	G	VRN-H2 = W or S
5		alternative	14*	1	0	T	
7		alternative	50	0	0	0	<i>PPD-H2</i> = W
8		alternative	16*	0	0	т	
DALLAS	1022	spring	s	0	1	T	PPD-H1 = variable
GRAPHIC	1023	spring	\$	0	1	т	
CHARIOT	1031	spring	s	0	1	т	
FELICE	1091	spring	\$	0	1	т	
HERON	1107	spring	s	0	1	т	Oranita a
DELIBES	1133	spring	\$	0	1	т	Spring
COOPER	1146	spring	\$	0	1	т	VDN UA C
BREWSTER	1147	spring	\$	0	1	T	VKIN-F11 = 5
OPTIC	1188	spring	\$	0	1	т	
BRAHMS	1191	spring	s	0	1	T	
CANASTA	1134	spring	s	0	1	т	DDD H2 - S (non reconneivel no
REGGAE	1196	spring	\$	1	1	т	rru - nz = 3 (non responsivel no
JIVE	1201	spring	s	1	1	т	delayed flowering under SD)
PRIMERA	1245	spring	s	0	1	т	uelayeu nowenny under SDJ
CLARITY	1246	spring	s	0	1	т	DDD U// man rean analysis to LD

	senter Nar	ne Ca	rol Nor	ris •	Date	May 20	010							(NIZ
		•				1	. 14				1			
		Ge	no	typ	oin	<u>g "</u>	alte	ern	ati	ve	í va	rietie	S	
	Genot	ype	d fo	r Sl	٧Ps	and	d SS	SRs						
	VRN-H1 Mpx	SNP1	SNP2	SNP3	SSR	Del	SNP4	SNP5	SNP6	VRN-H2	haplotype	predicted pheno	PPD-H1	PPD-H2
Strider	1A	T	A	C	4	0	T	G	C	+Z	1A+Z	Winter	-	
	1A 1A	T	A	C C	4	0	T	6	C	+2	1A+Z	VVinter	G	0
3	14	T	A A	C	4	0	T	6	C	+2	14-7	week enring	т	0
4	10	Ť	A	c	4	0	Ť	G	c	-Z	1A-Z	weak spring	G	0 0
Express	50	Ť	G	č	5	5C	C	Ă	Ğ	+Z	5C+Z	Winter	Ū	Ŭ
. 1	5C	Т	G	С	5	5C	С	Α	G	+Z	5C+Z	Winter	G	0
7	5C	Т	G	С	5	5C	С	Α	G	-Z	5C-Z	weak spring	G	0
3	S	T	G	C	5	5A	C	Α	G	+Z	5A+Z	Spring	T	0
6	S	Т	G	C	5	5A	C	Α	G	+Z	5A+Z	Spring	T	0









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