### CATALOGUE OF GENE SYMBOLS FOR WHEAT: 2017 SUPPLEMENT

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The most recent version of the Catalogue, compiled for the 12<sup>th</sup> International Wheat Genetics Symposium held in Yokohama, Japan, is available on the Komugi and GrainGenes websites. Supplements 2013-2014 and 2015-2016 are also available at those sites.

### **Laboratory Designators**

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### Morphological and Physiological Traits

### 1. Gross Morphology: Spike characteristics

### 1.1 Squarehead/spelt

Add at the end of section:

A nucleotide change in the microRNA172 binding site of the Q locus played a critical role in wheat domestication and the origin of free-threshing modern wheats {11192}.

### 5. Anthocyanin Pigmentation

5.3. Red/purple coleoptiles.

### Rc-D1.

NO D	Rt D1:								
	RcD1a.	v:	Add: Gaoyuan 115 {11160}.						

c:	<i>TaMYB-D1</i> isolated from Gaoyuan 115 was proposed as the candidate
	gene {11160}.

### 5.5. Purple grain/pericarp

At the end of section add:

A set of Saratovskaya 29 NILs is described in {11136}.

### 18. Dormancy

### 18.1 Germination index

TaS	dr-1	<b>41</b> {11	199}.	2A {	11199	9}.		
	<b>ma:</b> Xgwm95-2A – 1					<i>TaSdr-A1</i> – 1.5 cM – <i>Xgwm372-2A</i> {11199}.		
	<i>TaSdr-A1a</i> {11199}.					Yangxiaomai {11199}.		
Asso	ocia	ted wit	h low germin	ation i	ndex.			
	<i>TaSdr-A1b</i> {11199}. v: Zhongyou 9507 {11199}.							
Asso	Associated with high germination index.							

Change present entry TaSdr to TaSdr-B1

### 20. Earliness per se

Eps-	$-1A^m$ .											
			candidate gene for $Eps-A^mI$ {11120}.									
Follo	owing th	ne <i>Eps-A1</i>	b add:									
Eps-	<b>D1</b> {11	1903}.	1DL {M11193}.									
	v:	Earliness	allele: Cadenza and Spark {11193}. Lateness allele: Avalon									
		and Rialt	o{11193}.									
	ma:	The earli	ness allele was associated with a subtelomeric deletion									
		containing three candidate genes one of which was <i>TaELF-D1</i> {11193}.										
		A QTL for heading date co-segregated with <i>TaELF3-1DL</i> in a RIL										
		populatio	population derived from Gaocheng 8901 / Zhoumai 16 {11194}; a									
		deletion of	of the <i>Eps-1D</i> region was associated with earlier flowering.									

### 29. Glaucousness (Waxiness/Glossiness)

### 29.2 Epistatic inhibitors of glaucousness

### **QTL**

### Leaf glaucousness

RAC875 (glaucous) / Kukri (non-glaucous). Several QTL affected leaf glaucousness, the strongest of which was *QW.aww-3A*; QTL of lesser effect *QW.aww-3B* and *QW.aww-3D* were detected at homoeologous regions on chromosomes 3B and 3D {11131}.

### 24. Flour Colour

Add to the present information:

Lutein is one of the carotenoids contributing to flour colour. Esterification of lutein contributes to its stability during storage. A locus controlling esterification was located in chromosome 7D.

### Lutein esterification

Lute	2 {11189}.		7DS {11189}.	bin:	7DS4-0.61-1.00.				
	ma:	Xwmc	438-7D – 15.1 cM – <i>Lute/XwPt-1163/XwPt-3727</i> – 17.7 cM –						
		Xbarc	154-7 {11189}. Ass	signed to	o BAC TaBAC470M18 {11189}.				
	Alleles:	Lute	High lutein ester.	•					
		v:	Indis {11189}; Sunco*2/Indus Der. DM5685*B12 {11189}.						
			Most bread wheat accessions.						
		lute	Low lutein ester.						
		v:	Haruhikari {11189}.						
Suno	Sunco is low lutein but high ester, whereas Haruhikari is low lutein and zero ester.								
Lute	in Actors	vere no	t detected in durum	[11120]					

Lutein esters were not detected in durum {11189}.

### 33. Grain Traits

### Variation in grain traits based on gene homology with other species Insert above *TaSAP-A1*.

Tabas1-	<i>B1</i> {M	[11198].	2BL	{M11198}.				
<b>ma:</b> $Xbarc167-2B-10.38 \text{ cM} - Tabas1-5.23 \text{ cM}$							278-2B	
{11198}.								
	c:	BAS1is a type	e of 2-	-Cys peroxire	doxin	in a large perox	idase family.	
Tal	bas1-B1	<i>la</i> {11198}.	v:	Jing 411 {M	1119	8}.		
Associa	ted with	h higher TGW.						
<i>Tabas1-B1b</i> {11198}. v: Hongmanchun 21 {11198}.						_		
Associated with lower TGW.								

TaGW-A2					
{11121,11122} that functions as a negative regulator of grain weight					
6A {11121}.	ma:	ma: TaGW2 was mapped on the Spark x Rialto DH			
		population to chromosome 6A and linked to markers			
		BS000072146, BS000105973 and CA643341 at 46.8 cM			
	{11121}.				
	c:	GenBank KP749901.1 {11122}.			

A loss-of-function mutation in TaGW2-A1 was associated with a 6.6% increase in grain weight in tetraploid and hexaploid wheat {11122}.

Insert after *TaSAP-A1*.

<i>TaTGW6-A1</i> {11196}.					3AL	. {11	196}.		
ma: Ger				Ger	Gene-3665_61 – 2 cM – TaTGW-A1 – 18 cM –				
				Bol	3obWhite_c47304_56 {M11196}.				
	c:	TG	W6 in	rice	encoc	les a	n indole-3-acetic acid -glucose h	ydrolase	
		[{1	1196}	].					
	TaT	'GW	-A1a	[1119	6}.	v:	Doumai {11196}; Zhou 8425B	{11196}.	
Associa	ited w	ith h	igher	TKW					
	<i>TaTGW-A1b</i> {11196}. v: Chinese Spring {11196}.								
Associa	Associated with lower TKW.								

<i>TaTGW-B1</i> {11196}.	3BL {11196}.
<i>TaTGW-D1</i> {11196}.	3DL {11196}.

TaTG	W-7A {	11197}.	7 <i>A</i>	AS {11197}.	Bin:	C-7AS8-0-0.45.
	ma:	<i>SLAF49035</i>	-3.02	2 cM – TaTGW7A/TG –	9.19 cM	I – Xbarc-7A
		{M11197}.				
	c:	Traes-7AS_	378A	12AA9.1. <i>GW2</i> in rice of	encodes	an E3 ubiquitin
		ligase [{1119	97}].			
1	TaTGW	'-7Aa	v:	Jing 411 {M11197}.		
{	11197	}.				
Associ	ated w	ith higher TG	W.			
1	TaTGW	<i>Y-7Ab</i>	v:	Hongmanchun 21 {11	197}.	
{	11197	}.				
Associ	ated w	ith lower grain	n weig	ght.	•	

### 44. Height

### 44.2. Reduced height: GA-sensitive

Rht24.		<i>QTL_height_6A_1</i> {11183}; <i>QPH.caas-6A</i> {11184}.	6AL {11185}.				
{1118	35}.						
	v:	Aikang 58 {11185}.					
	ma:	<i>Xwmc256-6A</i> – 2.71 cM – <i>TaGa3</i> – 7.05 cM – <i>TaAP2</i> – 0.24 cM –					
Rht24 – 1.61 cM – TaFAR – 13.87 cM – Xbarc103-6A {11185							
Rht24	Rht24 was identified in many Chinese cultivars and a low number of European wheats						
based	based on flanking markers designed from <i>TaAP2</i> and <i>TaFAR</i> {11185}.						

### 46. Hybrid Weakness

### 46.5 Hybrid necrosis type III

Nec1	{1115	8}. 7DS {11158}.
	v:	(T. durum cv. Langdon × Ae. tauschii KU-2828) amphiploid {11158}.
	al:	Ae. tauschii KU-2828 {11158}.
	ma:	<i>Xbarc352-7D</i> – 5.3 cM – <i>Lr34</i> – <i>Xgwm295-7D</i> – 4.0 cM – <i>Xbarc154-7D</i>
		$-1.7 \text{ cM} - Nec1 - 13.2 \text{ cm} - Xcfd-7D \{11158\}.$

Although this form of hybrid necrosis is caused by complementary genes mapping of Nec1 was based on a cross of necrotic and non-necrotic Langdon  $\times$  Ae. tauschii amphiploids. Consequently only Nec1 was mapped  $\{11158\}$ .

### 53. Male Sterility

### 53.3 Photoperiod and/or temperature-sensitive male sterility (PTGMS)

List as the first entry:

tmsBS20T	{11157}.	2BL {11157}.	v:	BS20-T {11157}.
ma:	Xgwm403-2	2B - 2.2  cM - tmsBS	S20T-4	4.5 cM – <i>Xgwm374-2B</i> {11157}.

### wptms1. Add note:

Chromosome 5B was also implicated in spontaneous mutant line Xinong 291S: a second gene was not located {11143}.

### 70. Response to Vernalization

Immediately above the *Vrn-1* heading continue the existing paragraph with: 'The *Vrn-D4* locus in TDF includes a duplication of ~290 kb region from chromosome arm 5AL inserted into the proximal region of chromosome arm 5DS. This translocated segment includes a functional copy of *VRN-A1* that carries distinctive mutations in its coding and regulatory regions {11123}.

*Vrn-2.* Continue the current introductory paragraph with: 'A triple *Vrn2* mutant (PI 676269, synthetic *vrn2-null*) is available in hexaploid wheat combining the non-functional *vrn-A2* allele present in most polyploid wheats with a *Vrn-B2* deletion from tetraploid wheat, and a non-functional *vrn-D2* allele from *Aegilops tauschii* {11124}.'

### *Vrn-B2*. 4BL {11163}.

A study of winter wheats 2174 and Jagger showed that 2174 has a tandom repeat of *Vrn-B2* whereas Jagger has a deletion of this gene {11163}. Identical apparently functional sequences of *Vrn-B2* were found in contig sequences of Chinese Spring obtained from chromosomes 4BS, 2BS and 5DL {11163}.

*Vrn-D2*. 4DL {11163}.

### 71. Restorers for Cytoplasmic Male Sterility

### 71.4 Restorers for temperature-sensitive Aegilops kotchyi cytoplasm

Two recessive	Two recessive genes for temperature-sensitive sterility as follows.							
$rfv_1^{sp}$ {11151]	$rfv_1^{sp}$ {11151}.							
ma:	<b>ma:</b> $Xgwm413-1B-8.9 \text{ cM} - rfv_1^{sp} - 12 \text{ cM} - Xgwm11-1B \{11151\}.$							
<i>rfv</i> <sub>2</sub> {11151}.								
<b>ma:</b> $Xwmc474-2A-23.9 \text{ cM} - rfv2-13.7 \text{ cM} - Xwmc644-2A \{11151\}.$								

### 86. Proteins

**86.2. Enzymes** 

86.2.30. Starch branching enzyme II

#### SbeII.

Continue the present text with: 'Combined loss-of-function mutations in *SbeIIa-A*, *SbeIIa-B*, *SbeIIb-A*, and *SbeIIb-B* (PI 670160) increased amylose content by 66% and resistant starch by 753% relative to the control in tetraploid wheat cv. Kronos {11125}. Combination of these four mutations with mutations of *SbeIIa-D* in hexaploid wheat (PI 670160) increased amylose content by 63% and resistant starch by 1,057% in field experiments relative to the control {11126}.

### 86.3. Endosperm storage proteins

### 86.3.1.3. Glu-3

Add after the GLU3 description and immediately before listing *Glu-A3*:

'Characterization of near isogenic lines for the different *Glu3* alleles provides a useful quantification of their contribution to bread making quality {11129}.'

### **Pathogenic Disease/Pest Reaction**

### 90. Reaction to *Blumeria graminis* DC. 90.1. Designated genes for resistance

### Pm2.

Add note at end of section:

Several alleles of Pm2 with wheat and alien origins have been reported in Chinese genotypes – see temporary designations.

Pm56	<b>Pm56</b> {11155}.			Derived from <i>S. cereale</i> .			6AS (T6RS.6AL) {11155}.			
	v:	LM4	7-6 {11	6 {11155}. <b>al:</b> <i>S. cereale</i> cv. Qinling {11155}.						
Study	Study of misdivision products from a double monosomic 6A, 6R located <i>Pm56</i> to the									
subter	minal	region	of 6RS	{17026}.						
<i>Pm57</i>	{1115	59}.	Deri	ved from A	Ae. sear	sii.	2BL (T2BS·2BL-2S <sup>S</sup> #1L) {11159}.			
	v:	Line 8	9-346,	TA5108 {	11159}	; Lin	ne 89(5)69 TA5109 {11159}.			
Line 8	89-346	has a 2	28% dis	tal Ae. sed	arsii seg	men	t and line 89(5)69 has a 33% distal			
Ae. se	arsii s	egment	t {11159	9}.						
<i>Pm58</i>	{1117	71}.	PmT	A1662 {1	1171}.		Derived from Ae. tauschii.			
	2DS {11171}. v: Reference line to be chosen and accessioned					to be chosen and accessioned				
	{11171}.									
	<b>dv:</b> Ae. tauschii TA1662 {11171}.									
		ma:	Co-seg	gregation	with KA	$ASP^{T}$	<sup>M</sup> markers <i>K-TP331370, K-</i>			
	TP338253, K-Tp15990 and K-Tp313873 {11171}.									

### 90.3. Temporarily designated genes for resistance to Blumeria graminis

<b>PmHo</b> {11176}.		2AL {11176}.	v:	Mv Hombar {11176}.		
ma:	XwPt-6	65330 - 0.3  cM - PmH	$330 - 0.3 \text{ cM} - PmHo - 0.1 \text{ cM} - XwPt-3114 \{11176\}.$			
<b>PmLX66</b> {111	162}.	5DS {11162}.	v:	Liangxing 66 {11162}.		
PmLX66 was a	allelic w	ith <i>Pm2</i> {11162}.				
<b>PmTb7A.1</b> {1	1130}.	7AL {11130}.	bin:	7AL18-0.90-1.00.		
	<b>dv:</b>   <i>T. boeoticum</i> PAU5088 <i>PmTb7A.2</i> {11130}. <b>ma:</b> Map					
		a 4.3 region flanked by	4.3 region flanked by <i>wPt4553</i> and <i>Xcfa2019-7A</i> {11130}.			
		Estimated to be 46 cM	proxin	nal to <i>Pm1</i> {11130}.		
<b>PmTb7A.2</b> {1	1130}.	7AL {11130}.				
	dv:	T. boeoticum PAU50	)88 <i>Pm</i>	<i>Tb7A.1</i> {11130}.		
	ma: Mapped to a 0.8 cM region flanked by MAG1759 and					
	$MAG2185b$ {11130} in the region of $Pm1$ {11130}.					
		_	•			

<i>PmW14</i> {11162}.			5DS {11162}.	v:		Wennong	14 {11162}.			
PmW	$PmWE14$ was allelic with $Pm2$ {11162}.									
PmW	<b>E99</b> {	11166}.	Derived from Thir	Derived from <i>Thinopyrum intermedium</i> . 2BS {11166}.						
bin:			2BS-0.84-1.00.	v: W	WE99 {M18037}.					
	ma:	Pmw99 – 1	10.4  cM - Xgwm148	8-2B-3.	1 cN	1 – Xbarc55	-2B {11166}.			
GISH	I failed	l to detect a	lien chromatin.							
Mlm	2033.	Please co	orrect the earlier ent	ry listed	as M	Ilm3033.				
	ma:	<i>Xwgrc353/Xwggc4659</i> – 0.84 cM –								
	Mlm2033/Xmag8626/Xmag9060/Xmag2185/Xmag5240 – 0.06 cM –									
	Xmag8415/Xmag8220 {11190}.									
<i>Mlm80</i> . ma:			Xwggc4655 - 0.29  cM - Mlm80 - 0.57  cM -							
			Xwgrc253/Xwgrc271 {11190}.							

### 90.4. QTL for resistance to Blumeria graminis

<b>QPm-tut-4A</b> {11154}.		11154}. 4AL {11154}.				
	v:	DT4AL-TM Line 8.1 {11154}.				
	tv:	<i>T. militinae</i> (AAGG) {11154}.				
The 7G segment carrying this resistance likely replaces most of the 7BS segment						
known to	known to be part of chromosome 4A {11154}.					

### 96. Reaction to Fusarium spp.

### 96.1. Disease: Fusarium head scab, scab

### **Fhb1.** Add comment at end of section:

Lines combining Fhb1 and Sr2 are reported in  $\{11170\}$ ; Fhb1 is located about 2 cM proximal to Sr2.

SYN1 / Ocoroni DH population: three QTL from SYN1 were identified, *QFhs.cim-2D* (PVE 25%), *QFhs.cim-7A* (PVE 4.7%) and *Qfhs.cim-7A* (PVE 4.2%) {11165}.

### 98. 1 Reaction to Magnaporthe grisea (Herbert) BarrAdd: Syn. Pyricularia oryzae

Current Mg list.

### 98.2 Reaction to Magnaporthe oryzae.

Wheat cultivars carrying the 2NS translocation from *Aegilops ventricosa* had 50.4 to 72.3% less head blast than those without 2NS when inoculated with an older isolate (MoT) of *Magnaporthe oryzae* (*Triticum* pathotype) under growth chamber conditions. When inoculated with recently collected isolates from wheat, cultivars with 2NS had 64.0 to 80.5% less head blast {11127}.

### 101. Reaction to Mycosphaerella graminicola (Fuckel) Schroeter, Zymoseptoria tritici

Add the synonym species name as above.

 Stb3.
 [Slb3{1586}]. 6DS, according to {10556} this location is not correct{10105}.
 7AS{10556, 11191}.
 v: Israel 493{1586}.

 ma: Please delete present material and replace with:
 Xcfa2028-7A - 12.4 cM - Stb3/Xwmc83-7A - 2.1 cM - Xbarc222-7A {11191}.

## 102. Reaction to *Phaeosphaeria nodorum* (E. Muller) Hedjaroude (anamorph: *Stagonospora nodorum* (Berk.) Castellani & E.G. Germano); *Parastagonospora nodorum*

### **102.2** Sensitivity to SNB toxins (necrotrphic effectors)

*Tsn1*. The ma: line listed above this heading should be inserted in the *Tsn1* entry section.

**Snn1.** KASP marker Bs00093078\_51 was developed at Wang map position 8.361 in the UK MAGIC population {11133}.

QTL:	Add:

<i>QSnn.niab-5A.1</i> {11133}.	v:	Identified in the UK MAGIC population {11133}.
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### 105. Reaction to Puccinia graminis Pers.

### *Sr2.* Add comment at end of section:

Lines combining *Sr2* and *Fhb1* are reported in {11170}; *Sr2* is located about 2 cM distal to *Fhb1*.

#### Sr9.

### **Sr9h.** Add note at end of section:

Although {11149} concluded that *Sr28* was present in VL404 and Janz it is more likely that the gene described is the linked gene *Sr9h*. *Sr9h* was frequently present in landraces with field resistance to early isolates of the *Pgt* race Ug99 group {11147}.

Sr11.	<b>v2</b> :	Add: Charter <i>Sr9h</i> {11177}; Trident <i>Sr38</i> {11177}.
	ma:	<i>KASP_6BL_IWB46893</i> – 0.3 cM – <i>Sr11/KASP_6BL_IWB10724</i> – 0.3 cM
		- KASP_6BL_IWB72471 {11177}.

### *Sr13.* Add at end of section:

Markers *Xgwm427-6A* and *AFSr13S* (proximal) and *Xdupw-6A* (distal) showed variable but close (<10 cM) linkage with *Sr13* in six durum crosses – these markers were variously applicable across durum backgrounds, but only *Xgwm427-6A* was variable in a range of hexaploid derivatives with *Sr13* likely originating from a single source {11146}.

### *Sr26.* Add note:

Secondary recombinants with shortened 6AL#1L segments involving chromosomes 6A and 6D are reported in {11141}; five 6A recombinants were accessioned in the Australian Winter Cereals Collection.

Sr28.		v:	Add: SD 1691, CI 12499 {11148}.
	ma:		<i>c332</i> – 1.4 cM – <i>r28</i> – 6.0 cM – <i>wPt-7007</i> {11148}; <i>Sr28</i> – 1.6
		cM -	<i>wPt-7004</i> {11148}; <i>Sr28</i> – 0.6 cM – <i>wPt-7004</i> {11148}.
Although	n {1114	9} con	cluded that Sr28 was present in VL404 and Janz it is more
likely tha	at the ge	ene des	cribed is the linked gene <i>Sr9h</i> .

Sr35.	To the	To the chromosome location add: ,3A <sup>m</sup> L {11140}.							
	ma:	Add: <i>AK331487</i> – 0.02 cM – <i>Sr35</i> – 0.98 cM – <i>AK332451</i> {11140}.							
	c:	<i>Sr35</i> is has a coiled-coil-NBS-LRR structure {11140}.							

### *Sr42.* Add note at end:

A genetic analysis of six lines, Blouk, Coni, Niini, Pfuneye, Ripper and Tinkio, is reported in {11132}. All had single genes with linkage to *Xcfd49-6D* ranging from 3.9 – 12.5 cM and the genes were not clearly distinguished from *Sr42* or *SrTmp* {11132}.

**Sr45. su:** CS1D5406 {11134}. **ma:** *Xgwm106-1D/BE44426* – 1.82 cM – *Sr45* – 0.39 cM – *csssu45/Af45* {11134}. To present note add:

One race distinguishing *Sr45* and *Sr21* is reported in {11134}.

Sr56.	bin:	Correct to: 5BL16-0.79-1.00.
	ma:	Replace present information with: <i>Xsun209</i> (SSR) – 2.6 cm –
		$Sr56 - 1.2 \text{ cM} - Xsun320 \text{ (STS from wPt-7665)} \{10851\}.$

Sr59.	ma:	Three rye-based KASP markers identified lines with <i>Sr59</i> {11066}.							
SrPI410	<i>SrPI410966</i> {11180}. 2BS {11180}. <b>v:</b> PI 410966 {11180}.								
The mark	ker prof	file for this	gene was very sim	ilar to	that of a line with Sr36				
{11180,1	0825}.	Specificit	y tests were not rep	orted.					
	•								
SrTmp.	v:	Add: Dig	galu {11132}; Emb	er {11	152}; Guard-1 {11152}; Kenya				
		Robin {1	1152}; Morvarid {	11132	}; Overland {11152}; Ripper				
		{11132};	Shield {11152}.						
<b>Sr10187.</b> SrTA10187 {11181}.									
	ma:	Add: 6D	$S0027 - 0.2 \text{ cM} - Sr10187 - 0.2 \text{ cM} - 6DS00273 \{11181\};$						
		<i>Sr10187</i> – 0.2 cM – <i>6DS0039</i> {11181}.							

At the end of the gene list: Genotype lists: {Add: 17006}.

### 106. Reaction to *Puccinia striiformis* Westend.106.1. Designated genes for resistance to stripe rust

<b>Yr5.</b> i: Add: Lemhi+Yr5 {11153}.
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Г	1	TY 155 AD 1 4 CD 5 YYD 1/5 100 CD 2 1 CD 5 TO 2 CD 2 C
	ma:	Xwmc175-2B - 4.6 CM - YR5/ TaAffrx.65234.1.S2-at/Ta.28038 -
		0.7 cM – <i>S23M41-310/STS:S23M41-275</i> {11153}.
	1	
<i>Yr6</i> .	v2:	Add: Cadenza <i>Yr7</i> {11187}.
	ma:	$Xgwm577-7B - Yr6$ , <0.4 cM {11187}. Narrowed to an ~60 kb
		region including <i>Xgwm577</i> {11188}. Given the location of
		<i>Xgwm577</i> the gene location should be 7BL.
_	1	
<i>Yr7</i> .	v2:	Cadenza <i>Yr6</i> {11187}.
2174	ma:	<i>Xwmc175A-2B - Yr7</i> , <0.4 cM {11187}.
	1114.	111101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Yr10.	v:	Add: AC Radiant {11167}; Jacmar {11145}.
1710.		Yr10 has a CC-NBS-LRR structure {11145}. GenBank
	c:	· · · · · · · · · · · · · · · · · · ·
		AF149112 {11145}.
** **	1	A11 W 0.1D 0.0 W 15 0.5 W (10.15.5
<i>Yr15</i> .	ma:	Add: $Xbarc8-1B-3.9 \text{ cm} - Yr15-2.5 \text{ cM} - Xgwm413-1BS$
		{11173}.
<i>Yr18</i> .	v:	Add: Libellula {11139}; Strampelli {11139}.
Libellula ha	d an ad	ditional 4 QTL and Strampelli had an additional 3 QTL {11139}.
<i>Yr32</i> .	v:	Toisondor {11144}.
	1	
<i>Yr36</i> .	c:	Add: <i>Sr36</i> was shown to reduce the ability of the thylakoid-
1130.	· ·	associated ascorbate peroxidase to detoxify reactive oxygen
		1 , , , , , , , , , , , , , , , , , , ,
		species {11128}.
V 47	1	5DCC 0.01 1.00
<i>Yr47</i> .	bin:	5BS6-0.81-1.00.
	ma:	Change present entry to: $Xgwm234-5B-10.2 \text{ cM} - Lr52-3.3$
		cM – Yr47 – 9.6 cM – Xcfb309-5B {10679}; Xcfb309-5B –
		Xsun480/Xmag705/Xfcp552-5B - 0.4  cM - Yr47 - 4.3  cM -
		icg16c008/Xgwm234-5B {11200}; Xsun180 – 0.4 cM – Lr52 –
		$0.2 \text{ cM} - Yr47 - 1.4 \text{ cM} - Xgwm234-5B \{11200\}.$
<i>Yr51</i> .	YrA W	71 {10850}. <b>v2:</b> Correct to: AUS27859 Yr57 {10850}.
	ma:	Replace the present entry with: <i>Xowm45F3R304A</i> – 1.2 cM –
		$Yr51 - 2.5 \text{ cM} - Xsun104-4A - 1.8 \text{ cM} - Xgwm160-4A \{10850\}.$
<i>Yr57</i> .	YrA W	<i>7</i> 2 {10963}.
	<u> </u>	
Yr60.	Modi	fy the current entry to the following:
<b>Yr60</b> {1096		4AL v1: Almop, Avocet*3//Lalbmono1B*4/Pavon
1000 (1000)	~ j.	{10968}.   GID 5934039 {10968}.
	v2:	LB (Pavon1B ) <i>Yr29</i> {10968}.
	ma:	Xwmc313/Xwmc219-4A - 0.51 cM - Yr60/Xwmc776-4A
TT 60	<u> </u>	[{10968}.
<i>Yr60</i> was es	timatec	I to be about 10 cM distal to Yr51
<i>Yr69</i> .	Add:	Derived from <i>Thinopyrum ponticum</i> .

<b>Yr77</b> {11174}.		Adult pl	Adult plant resistance.  QYr.ucw-6D {11				
6	DS {	11174}.					
v	7:	PI 322118	{111′	74}; PI 164377 {	11174}; PI 388095 {11174}; PI		
		520350 {11	174}	; PI 623378 {111	174}.		
n	na:	Yr77 was s	trong	ly associated with	n <i>IWA167</i> in the region		
		Xbarc54-6	O (6DS) – 15.2 cM – <i>IWA167</i> (6DS) – 3.9 cM –				
		Xcfd188-61	) (6D	L) {11174}.			
Among the list	ted ac	ccessions tw	o wei	re from India, one	e from Pakistan, one from Iran,		
and one from t	the U	SA.					
<i>Yr78</i> {11174}.		Adult plant resistance.			<i>QYr.ucw-6B</i> {11174}.		
6	6BS {			11174}. <b>v:</b> PI 519805 {11174}; Nine others {11174}.			
n	na:	The <i>Yr78</i> peak fell within a 4.3 cM interval, <i>IWA7257</i> –					
		Xwmc737-0	$\delta B \{1$	1174}.			

### 106.2. Temporarily designated genes for resistance to stripe rust

<b>YrF</b> {	<i>YrF</i> {11156}.		2BS {11156}.		v:	Francolin	#1 <i>Yr46</i> {11156}.
France	Francolin#1 is also released under the names Ufam and BARI Gom 27 {11156}.						
YrJ22	{11195	5}.	2AL { 11195.}. <b>v</b> :		Jimai 22 {11195}.		
	ma:	Xgwm	382-2AL-1.0	cM - YrJ	22 - 7.3	8  cM - IW	/A <i>1348</i> {11195}.
<i>Yrwh2</i> {11150}.			Recessive. 3BS {11150}. v: Wuhan 2 {11150}.			Wuhan 2 {11150}.	
	<b>ma:</b> $Xwmc540-3B-5.9 \text{ cM} - Yrwh2-10 \text{ cM} - Xgwm566-3B \{11150\}.$						

### 106.3. Stripe rust QTL

Camp Remy/Recital: Add: Differential reactions of RILs possessing different QTL occurred between old and new *P. striiformis* races {11144}.

Coker 9835 (S) / VA96W-270 RIL population: Adult plant resistance was conferred by *QYr.ar-3BS* (nearest markers *Xbarc147*, *ger9-3p*, *IWA6092*) and *QYr.ar-4BL* (nearest markers *Xbarc163*, *Xcfd39* and several *IWA* markers {11175}. Cultivar Pat had the same haplotype {11175}.

USG 3555 / Neuse: Add: Three QTL on chromosomes 1AS, 4BL and 7D (not *Yr18*) were derived from USG 3555 and one QTL on chromosome 3A was from Neuse {11142}.

### 107. Reaction to *Puccinia triticina* 107.1. Genes for resistance

# Lr19. v: Pallada {11161}. Lr48. ma: Add: Xsun563/Xsun497 - 0.6 cM - 5 SNP markers/Lr48 - 0.3 cM - IWB70147 - 2.0 cM - XBARC0-7-2B - 9.4 cM - Lr13 {11172}. Add comment: The suggestion that this gene is present in 13 Australian varieties

carrying L	carrying $Lr48$ markers and hence $Lr48$ {11172} needs verification.						
<u>, , , , , , , , , , , , , , , , , , , </u>							
Lr52.		<b>bin:</b> 5BS6-0.81-1.00.					
	ma:	Change present entry to: $Xgwm234-5B-10.2 \text{ cM} - Lr52-3.3$					
	cM – Yr47 – 9.6 cM – Xcfb309-5B {10679}; Xcfb309-5B –						
		<i>Xsun480/Xmag705/Xfcp552-5B</i> – 0.4 cM – <i>Yr47</i> – 4.3 cM –					
		icg16c008/Xgwm234-5B {11200}; Xsun180 – 0.4 cM – Lr52 –					
		$0.2 \text{ cM} - Yr47 - 1.4 \text{ cM} - Xgwm234-5B \{11200\}.$					
<i>Lr70</i> {109	904}.	5DS {10904}. <b>v2:</b> KU3198 <i>Lrk1</i> {10904}.					
	ma:	$Lr70 - 5.6 \text{ cM} - Xbarc130-5D - 1.7 \text{ cM} - Xwmc233-5D \{10904\}.$					
<i>Lr75</i> .	Rem	ove the 'P' from the synonym. $ \mathbf{bin} $ 1BS10-0.5-1.00.					
	v2	Update to: Forno <i>Lr14a Lr34</i> {11053}.					
	Bin:	Update to: $Xgwm604-1B$ 1.6 – cM – $Lr75$ – 2.70 cM – $swm271$ –					
		0.14 cM – <i>Xgwm11-1B/Xgwm18-1B/swm294/swm278/swm275</i>					
		{11053}.					
<i>Lr77</i> {111	164}.	Adult plant resistance 3BL {11164}.					
	v:	Tc*3 / Santa Fe 8-1C.9 {11164}.					
	<b>v2</b> :	Duster <i>Lr3a Lr11 Lr34</i> PI 639233{11164}; Santa Fe <i>Lr3a Lr17a</i>					
		<i>Lr37</i> PI 641772{11164}.					
	ma:						
		<i>Lr77/KASP10344/Kasp73555</i> – 0.62 cM – <i>KASP12260</i> – 2.46 cM –					
		<i>IWB79797</i> {11164}.					
<b>LrK1</b> {10	904}.	5BS {10904}.   <b>v2:</b>   Ku3198 <i>Lr70</i> {10904}.					
<b>ma:</b> $LrK1 - 0.6 \text{ cM} - Xcfd20/Xgwm234-5B \{10904\}.$							
LrK1 coul	$LrKI$ could be $Lr52$ or an allele $\{10904\}$ .						

At the end of the gene lists:

Genotype lists: Insert 'Croatian cultivars {11135}'. 'Kazakhstan cultivars {11161}'. At the end of section add:

See {11178} for review and analysis of leaf rust resistance genes in six durum wheats.

### 111. Reaction to Sitodiplosis mosellana (Gehin)

Sm1.	v:	Add: Augusta {11137}; Robigus {11137}; Skalmeje {11137}.
	ma:	Add: A combination of 2BS-5344126_kwm707 and 2BS-
		6229175_kwm693 appeared to be predictive of <i>Sm1</i> but there was
		variation between sources {11137}.

### 113. Reaction to Soil-Borne Cereal Mosaic Virus (SBCMC)

Sbm1.		v:	Add: Claire {11138}; Moulin {11138}; Tremie {11138}.
ma: Add		Add:	E37M49 - 9.0  cM - Sbm1 - 1.0  cM - Xgwm469-5D - 2.0  cM -
Xwmc		Xwmc	765-5D {11138}. Resistant varieties carried 152 or 154 bp alleles
at Xgv		at Xgv	wm469-5D; all susceptible genotypes had a null allele {11138}.

### 115. Reaction to Tilletia caries (D.C.) Tul., T. foetida (Wallr.) Liro, T. controversa

Ut4 Ad	Ut4 Add reference {,111			58}.	<i>QUt.spa-7B</i> {1	1168}.	7B {11168}.
			v:	TD1{11168	3}; Glenlea {111	68}; 9340-	-CP {11168}.
·							
The cur	rent in	ıforma	tion l	isted for <i>Ut-</i> 2	X can be transfer	rred to Ut5	using <i>Ut-X</i> as a
synonyi	n.						
<i>Ut5</i> {11	168}.			<i>Ut-X</i> {1164	<b>.</b> }.		
<b>Ut6</b> {11	169}.			QUt.spa-5H	3 {11168}.	5BL {11	169}.
	v:	AC F	orem	ost {11169};	AC Karma {10	040}; AC	Vista {11168};
		Chine	ese Sp	oring {11169	}; Glenlea {111	69}; HY32	0 {11169}; Oasis
		{1116	59}.				
	ma:	Xg	pw50	029-5B-2.8	cM - Ut6 - 2.8	cM – Xbar	c232-5B {11169}.
<i>Ut7</i> {11	168}.			QUt.spa.7A	{11168}.	7A {1110	68}.
	v:	SC8	021V	72 {11168}.			
<i>Ut8</i> {11	168}.			QUt.spa-3A	l {11168}.	3A {1110	68}.
	v:	9340	0- <b>SP</b> {	11168}; Gle	enlea {11168}.		
<b>Ut9</b> {11	168}.			QUt.spa-6H	3 {11168}.	6B {1110	58}.
	v:	SC8	021V	72 {11168}.			
				<u>-</u>			
<b>Ut10</b> {1	1168}	}.	Ql	<i>Ut.sps-6D</i> {1	1168}.	6D {111	68}.
,	v:			V2 {11168}.	•	•	-
OTI				. ,			

QTL

Existing entry: Correct spelling of: Blizard.

Idaho 444 (R) / Rio Blanco S: RIL population: Three QTL for dwarf bunt resistance: QDB.ui-7DS (R<sup>2</sup> = 0.3 – 0.6), QDB.ui-1A (r<sup>2</sup> = 0.11 – 0.15) and QDB.ui-2B (R<sup>2</sup> = 0.06). Two PCR-based markers were developed for the wPt-2565 sequence on chromosome 7DS {11182}

### 119. Reaction to Wheat Streak Mosaic Virus

Wsm1.	$4D = T4DL.4J^{S}S.$	v:	Mace PI 651043 {11179}.			
Add note: <i>Wsm1</i> confers resistance at temperatures below 19C {11179}.						

### 122. Reaction to Wheat Yellow Mosaic Virus

Following the entry *YmYF* and above the QTL: add:

<b>QYr.nau-2D</b> {11186}.			2DL {11186}.	bin:	2DL9-0.76-1.00.	
	v: Yining Xiaomai {11186}.					
	ma:	Xwmc41-2L	0 - 3.7  cM - 2SNP86	.2 - 0.4	ŀ cM – <i>QYm.nau-2D</i> –	
		1.0  cM - 2E	EST784 {11186}.			

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Update	

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