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**Genetic variation for resistance to *Fusarium* head blight in winter durum material**

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**Table S1. List of lines used in set A (least significant difference at the 5 % probability level for plant height = 4.5, for heading time = 2.82 and for mean FHB = 0.57)**

Genotype	Pedigrees	Plant height (cm)	Heading date (d)	Mean FHB rating
6.005/05/01	Auradur * Inverdur	72.74	153.55	4.77
6.005/05/02	Auradur * Inverdur	74.62	151.01	5.13
6.006/05/01	Auradur * 2/97/04	79.45	148.76	4.56
6.006/05/02	Auradur * 2/97/04	77.42	150.11	4.51
6.006/05/03	Auradur * 2/97/04	73.46	146.95	5.28
6.007/05/01	Auradur * 11/97/04	74.67	146.07	5.79
6.007/05/02	Auradur * 11/97/04	83.07	149.37	4.69
6.008/04/01	[(SD Belladur * GAE 8141)*(D 87450 * SD Eurodur)]*Soldur	77.75	152.61	3.97
6.008/04/03	[(SD Belladur * GAE 8141)*(D 87450 * SD Eurodur)]*Soldur	80.52	151.73	4.66
6.009/04/02	Soldur * (SD Eurodur * SD Topdur)	84.63	150.99	4.91
6.015/05/01	(SD Lloyd * 92/04/06) * Yukon	78.09	146.94	5.20
6.015/05/02	(SD Lloyd * 92/04/06) * Yukon	82.88	146.79	4.81
6.018/05/01	(SD Lloyd * 92/04/06) * Inverdur	87.58	150.57	4.73
6.018/05/02	(SD Lloyd * 92/04/06) * Inverdur	81.08	149.28	5.48

6.018/05/03	(SD Lloyd * 92/04/06) * Inverdur	78.85	151.18	5.21
6.018/05/04	(SD Lloyd * 92/04/06) * Inverdur	77.56	150.42	4.92
6.018/05/05	(SD Lloyd * 92/04/06) * Inverdur	83.42	150.93	4.62
6.018/05/06	(SD Lloyd * 92/04/06) * Inverdur	82.67	152.11	4.69
6.020/05/01	(Primadur * Zaporozhskaja)* Soldur	86.45	150.74	4.24
6.022/05/01	(Primadur * Zaporozhskaja)* Hordeiforme 3	78.22	147.42	5.58
6.024/05/01	(Primadur * Zaporozhskaja) * Inverdur	77.89	149.02	4.92
6.025/05/01	(Primadur * Zaporozhskaja)*( SD LLOYD * 92/04/06)	74.45	147.94	5.08
6.025/05/02	(Primadur * Zaporozhskaja)*( SD LLOYD * 92/04/06)	80.76	149.30	4.40
6.025/05/03	(Primadur * Zaporozhskaja)*( SD LLOYD * 92/04/06)	82.19	146.90	4.87
6.026/05/01	Auradur * SD Kombo	72.87	148.91	4.77
6.026/05/02	Auradur * SD Kombo	74.64	150.45	4.96
6.026/05/03	Auradur * SD Kombo	74.93	149.41	4.74
6.026/05/04	Auradur * SD Kombo	77.10	148.31	4.66
6.026/05/05	Auradur * SD Kombo	69.78	145.78	5.40
6.026/05/06	Auradur * SD Kombo	72.73	146.28	5.17
6.026/05/07	Auradur * SD Kombo	78.61	147.64	4.86
6.027/05/01	Auradur * SD Joyau	76.06	145.67	4.85
6.027/05/02	Auradur * SD Joyau	75.74	147.95	5.14
6.027/05/03	Auradur * SD Joyau	79.15	148.03	4.96
6.027/05/04	Auradur * SD Joyau	82.45	147.55	5.18
6.027/05/05	Auradur * SD Joyau	82.13	149.88	4.91
6.027/05/06	Auradur * SD Joyau	81.61	152.41	4.69
6.029/04/02	21/02 [1529.91] * (SD Eurodur * SD Topdur)	66.89	146.21	6.16
6.029/05/01	Auradur * 63.97.01	74.02	150.01	5.09
6.029/05/02	Auradur * 63.97.01	72.25	148.21	5.23
6.029/05/03	Auradur * 63.97.01	75.09	151.56	4.85
6.031/05/01	Inverdur * SD Joyau	70.24	150.86	5.70
6.031/05/02	Inverdur * SD Joyau	66.55	147.97	5.38
6.031/05/03	Inverdur * SD Joyau	66.83	150.22	5.14
6.032/05/01	Inverdur * SD Joyau	74.42	153.13	4.17

6.032/05/02	Inverdur * SD Joyau	78.28	153.42	4.40
6.034/04/03	Prowidur * MVTD-12/99	77.28	153.90	5.48
6.034/05/01	Inverdur * 63.97.01	74.56	150.48	5.72
6.034/05/02	Inverdur * 63.97.01	78.04	151.81	5.31
6.034/05/03	Inverdur * 63.97.01	79.19	149.94	4.93
6.034/05/04	Inverdur * 63.97.01	74.84	149.31	4.84
6.035/05/01	Inverdur * (Ruem 75 * SD Topdur)	75.76	147.33	4.96
6.035/05/02	Inverdur * (Ruem 75 * SD Topdur)	80.58	151.34	4.26
6.035/05/03	Inverdur * (Ruem 75 * SD Topdur)	79.96	151.10	4.51
6.037/05/01	(SD Lloyd * 92/04/06) * SD Joyau	80.11	147.59	4.77
6.037/05/02	(SD Lloyd * 92/04/06) * SD Joyau	78.11	145.91	4.94
6.038/04/01	Prowidur * 02.97.05	73.47	150.34	4.96
6.039/04/01	Prowidur * 11.97.02	67.71	149.62	5.45
6.039/05/01	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	78.78	148.64	5.26
6.039/05/02	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	80.31	148.73	5.27
6.039/05/03	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	79.31	146.83	5.00
6.039/05/04	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	74.91	146.65	4.68
6.039/05/05	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	81.84	146.35	4.63
6.039/05/06	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	78.40	147.88	4.65
6.039/05/07	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	80.95	147.89	4.62
6.039/05/08	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	81.99	146.86	4.70
6.039/05/09	(SD Lloyd * 92/04/06) * (SD Lloyd * Prob 304/94)	81.18	146.80	5.27
6.040/04/01	Prowidur * 11.97.04	81.61	149.90	4.96
6.040/05/01	(SD Lloyd * 92/04/06) * (Ruem 75 * SD Topdur)	81.21	147.59	4.85
6.040/05/02	(SD Lloyd * 92/04/06) * (Ruem 75 * SD Topdur)	80.51	147.00	4.59
6.040/05/03	(SD Lloyd * 92/04/06) * (Ruem 75 * SD Topdur)	81.69	148.33	4.77
6.040/05/04	(SD Lloyd * 92/04/06) * (Ruem 75 * SD Topdur)	81.51	147.79	4.61
6.041/04/01	02.97.03 * Soldur	85.58	149.11	4.41
6.041/04/04	02.97.03 * Soldur	84.09	148.23	4.43
6.041/05/01	(SD Primadur * Zaporozhska)* SD Kombo	73.61	146.37	5.64
6.041/05/02	(SD Primadur * Zaporozhska)* SD Kombo	75.55	147.08	5.00

6.041/05/03	(SD Primadur * Zaporozhskaja)* SD Kombo	71.12	145.47	5.31
6.042/05/01	(SD Primadur * Zaporozhskaja)* SD Kombo	82.02	147.14	4.86
6.042/05/02	(SD Primadur * Zaporozhskaja)* SD Kombo	80.20	145.45	4.68
6.042/05/03	(SD Primadur * Zaporozhskaja)* SD Kombo	77.66	146.92	4.65
6.046/04/01	02.97.03 * MVTD-25/01	83.46	148.63	4.38
6.046/04/02	02.97.03 * MVTD-25/01	81.46	150.55	4.36
6.047/04/01	02.97.03 * 02.97.05	84.34	150.23	4.33
6.047/04/02	02.97.03 * 02.97.05	82.52	149.75	4.50
6.048/04/01	02.97.03* 11.97.02	77.11	150.77	4.88
6.048/04/02	02.97.03* 11.97.02	73.76	148.70	5.39
6.048/04/03	02.97.03* 11.97.02	74.23	149.24	5.13
6.049/04/01	02.97.03 * 11.97.04	86.17	147.32	4.93
6.049/04/02	02.97.03 * 11.97.04	79.03	147.98	4.68
6.051/04/01	02.97.03 * SD Joyau	80.61	146.68	4.78
6.051/04/04	02.97.03 * SD Joyau	83.69	150.80	4.30
6.051/04/05	02.97.03 * SD Joyau	82.89	146.62	4.72
6.051/05/01	Yukon * SD Kombo	73.19	145.88	5.71
6.052/04/01	02.97.03 * 11.97.06	81.38	147.87	4.44
6.052/04/03	02.97.03 * 11.97.06	83.20	149.70	4.61
6.052/04/04	02.97.03 * 11.97.06	82.26	149.01	4.46
6.052/04/05	02.97.03 * 11.97.06	85.77	148.32	4.44
6.055/05/01	Yukon * (Ruem 75 * SD Topdur)	75.18	149.78	4.68
6.056/05/01	Hordeiforme 3* SD Kombo	64.72	145.20	5.40
6.060/05/01	Hordeiforme 3* (Ruem 75 * SD Topdur)	77.89	149.18	5.31
6.060/05/02	Hordeiforme 3* (Ruem 75 * SD Topdur)	71.60	146.33	4.93
AURADUR	Winterhardy standard from Austria	72.62	148.36	5.15
KARUR	Spring durum from France	71.71	145.77	4.89
LOGIDUR	Winterhardy standard from Austria	79.39	148.18	4.92
Wintergold	Lloyd * 92/04/06	82.93	147.16	4.37

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**Table S2. List of lines used in set B (least significant difference at the 5 % probability level for plant height plant height = 5.03, for heading time = 2.24 and for mean FHB = 0.68; mbl = modern breeding line)**

<b>Genotype</b>	<b>Origin</b>	<b>Year of release</b>	<b>Pedigree</b>	<b>Plant height (cm)</b>	<b>Heading date (d)</b>	<b>Mean FHB rating</b>
Aisberg Odesski	UA	1990	Khar 1 * Odes yub * Ov 65 * Novomi	73.85	149.41	5.59
Alena	RU	2000	KN.751h377 * Parus	80.33	148.45	4.88
Aliy Parus	UA	1993	Khar 1 * Odes yub * Ov 65 * Novom * Topaz	73.50	147.28	5.48
Argonavt	UA	2001	T.aestivum * T.durum	77.06	148.76	5.40
Auradur	AT	2004		72.99	148.31	4.96
Burshtin	UA	2007		77.95	147.31	4.95
Cliodur	AT	2011		71.39	149.92	5.02
Coradur	AT	2006		73.16	149.64	4.75
Delphin	UA	1999	T.aestivum * T.durum	75.77	148.76	5.50
Elsadur	AT	2009		72.23	148.63	5.22
Gardemarin	UA	2006		73.29	146.37	5.12
Inverdur	AT	2002		74.14	152.00	4.72
Karur	FR	2002		69.44	146.42	4.77
Kiradur	AT	2011		76.90	153.31	4.24
Kontinent	UA	2008		69.04	147.42	6.23
Krupinka	RU	2005	KN.1252h33 * Aliy Parus	67.88	150.90	4.64
Laguna	UA	2005		76.27	149.78	5.28
Logidur	AT	2008		77.79	149.41	4.66
Lunadur	AT	2006		73.79	148.90	4.63
Lupidur	AT	2009		73.55	150.08	4.56
Martondur 1	HU	1996	DF205-82 * Korall	75.38	147.60	5.03
Martondur 2	HU	1996	(GK Minaret * DDSZ041901) * Kristall	79.99	147.31	4.86
Martondur 3	HU	1999	Chernomor * Kristall	76.44	150.68	4.38
Mv Gyémánt	HU	2004	{{(GK Basa*DF333)*Kristall2}*Parus}*DF623}*GKD11-12	70.06	149.80	4.70
Mv Makaróni	HU	2001	GK Tiszadur * Chernomor	74.88	151.48	4.53

Mv Maxidur	HU	2001	Parus * Odmadur2	80.94	149.48	4.72
MvTD07-09	HU	mb1	MVTD22-99 * SOD168	71.81	148.58	4.91
MvTD11-11	HU	mb1	MVTD17-99 * PWD1225BA	73.59	146.22	4.81
MvTD12-11	HU	mb1	MVTD17-99 * PWD1225BA	72.95	145.78	4.89
MvTD122-11	HU	mb1	MVTD18-04 * GK Selyemdur	78.93	149.91	4.51
MvTD124-11	HU	mb1	[(Odmadur1 * Odmadur2) * GK Betadur] * GK Selyemdur	78.31	150.59	4.03
MvTD13-11	HU	mb1	MVTD17-99 * PWD1225BA	72.32	146.22	4.66
MvTD14-11	HU	mb1	[(Martondur3 * SOD168) * (MVTD22-99 * PWD1261)] * (MV Makaroni * OR971849)	78.80	151.82	4.77
MvTD16-11	HU	mb1	(Brindur * DF38-86) * Elidur	78.19	149.61	4.86
Odessa65	UA		> 20 years. breeding line	78.00	148.19	4.93
Odessa66	UA		> 20 years. breeding line	74.35	144.73	4.90
Odmadur 1	UA/HU	1996	Leucomel 2 * Khar 1 * Koral oddesski	70.38	149.01	5.81
Odmadur 2	UA/HU	1996	(Khar 1 * Ov 65) * (Od yub * Khar)	73.94	147.85	5.15
Perlyna Odesska	UA	2001		70.43	147.59	5.45
Prowidur	AT	2000		72.87	151.96	4.64
Snowglenn	US	2008	(ODESSA63 * ODESSA66) * ALIDUR	79.75	146.13	4.55
Soldur	SI	1989	T.durum TUR/SO 660	81.60	153.51	3.88
SZD1904AC	AT	mb1		74.61	148.44	4.48
Troubadur	AT	mb1		80.45	148.49	5.00
VA05WD-10	US	mb1	ODESSA66 * OR948612	77.09	146.76	5.31
VA05WD-12	US	mb1	ODESSA66 * OR948612	78.14	146.62	4.96
VA05WD-16	US	mb1	ODESSA66 * OREXP11	78.00	145.12	5.06
VA05WD-17	US	mb1	(OR3880158 * ODESSA69) * OREXP10	83.87	146.40	5.22
VA05WD-22	US	mb1	OR3880152 * (ODESSA66 * ODESSA64)	77.46	146.64	5.24
VA05WD-26	US	mb1	OR3880152 * (ODESSA66 * ODESSA63)	77.10	147.43	5.23
VA05WD-31	US	mb1	(ODESSA69 * OR3880152) * ODESSA66	79.84	147.52	5.00
VA05WD-39	US	mb1	(ODESSA63 * PANNONDUR) * ACADUR	74.57	146.62	5.10
VA05WD-42	US	mb1	(ODESSA63 * ODESSA66) * ALIDUR	81.97	145.35	5.35
Wintergold	DE	2011	Lloyd * 92/04/06	80.62	149.90	4.47

XAVD98048-2	US	mbf	RODUR * ODESSA63	71.02	143.16	6.25
XVAD99067-24	US	mbf	(ODESSA66 * OREXP13) * Amadur	80.10	144.07	4.72
XVAD99068-14	US	mbf	(RODUR * ODESSA69) * AMADUR	84.13	146.34	4.78
XVAD99069-18	US	mbf	(OREXP13 * PANNONDUR) * AMADUR	74.24	145.92	6.22
XVAD99142-10	US	mbf	(OREXP13 * OR3880181) * (OREXP12 * AMADUR)	80.33	147.84	5.42
XVAD99147-1	US	mbf	(OREXP13 * AMADUR) * (OR3880152 * RODUR)	81.75	148.33	5.47
Yukon	DE	> 20 years		73.99	149.97	4.71
Zolote Runo	UA	2004		80.78	147.77	5.85

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