

Advances in wheat breeding for resistance to Fusarium head blight

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Electronic Supplementary Material (ESM)

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Table S1. Summary of the FHB resistant wheat germplasms and their chromosome locations

Cultivar	Origin	R gene	Chromosome	Reference
Baisanyuehuang	China	<i>Fhb4, Fhb1</i>	4BL, 3BS	Jia et al. (2005)
CJ 9306	China	<i>Fhb2</i>	7BS, 5A, 2D	Jiang et al. (2006)
CM-82036	China	<i>Qfhs.ifa-5A</i>	5A, 3BS	Miedaner et al. (2006)
Forno	Swiss	<i>Fhb5</i>	5BL	Paillard et al. (2004)
Ningmai 9	China	<i>Fhb1</i>	3BS	Zhu et al. (2019)
Ningmai13	China	<i>Fhb1</i>	3BS	Anderson et al. (2001)
Ning 7840	China	<i>Fhb1</i>	3BS	Zhou et al. (2003)
Ning 894037	China	<i>Fhb1</i>	3BS, 6B	Zhou et al. (2003)
Nyubai	Japan	<i>Fhb1</i>	3BS, 5AS	McCartney et al. (2004)
Wuhan 1	China	<i>Fhb1</i>	2DL, 4BS	He et al. (2013)
Ningmai 16	China	<i>Fhb1</i>	3BS	Zhu et al. (2019)
Nimai20	China	<i>Fhb7</i>	7D	Zhou et al. (2003)
RCATL3	China	–	3B, 5A, 3A	Tamburicclincic and Miedaner (2012)
Saikai 165	Japan	<i>Fhb1</i>	3BS	Buerstmayr et al. (2002)
Shengxuan6	China	<i>Fhb1</i>	3BS	Bai and Shaner (2004)
Shengxuan3	China	<i>Fhb1-</i>	3BS	Ma et al. (2019)
Sumai-3	China	<i>Fhb1, Fhb2</i>	2A, 3B, 4B, 5A	Waldron et al. (1999)
W14	China	<i>Fhb1</i>	3BS	Chen et al. (2007)
W14	China	<i>Fhb5</i>	5A	Chen et al. (2007)
Wannian 2	China	-	4D, 5A	Bai and Shaner (2004)
Wangshuibai	China	<i>Fhb4</i>	4BL, 1B, 2A	Bai and Shaner (2004)
Wangshuibai	China	<i>Fhb1</i>	2D,3A, 3B, 4B	Zhang et al. (2012)
Wuhan1	China	<i>Fhb1</i>	2D, 4B, 3BS	Somers et al. (2004)
Wuhan1	China	-	4B	McCartney et al. (2016)
Yiyuan2	China	-	6B, 6D,7B	McCartney et al. (2016)
Canlaomai	China	<i>Fhb1</i>	3BS	Somers et al. (2006)
Caizihuang	China	<i>Fhb1</i>	3BS	Somers et al. (2006)
Haiyanzhong	China	<i>Fhb5, Fhb7</i>	5A, 6B, 7D	Li et al. (2011)
Huangandou	China	<i>Fhb1</i>	3BS	Jia et al. (2005)
Zhenmai 5	China	<i>Fhb1</i>	3Bs	Zhu et al. (2019)
Wangshuibai	China	<i>Fhb1</i>	6BS	Li et al. (2019)
U-136.1	China	-	6B,5A, 6D, 4B	Somers et al. (2006)
Wuhan1	China	<i>Fhb4</i>	4BS	Liu et al. (2008)
Chokwang	Korea	<i>Fhb1</i>	3BS, 4BL	Yang et al. (2005)
Nyu-Bai	Japan	<i>Fhb1</i>	3BS	Jia et al. (2005)
Nobeokabouzu	Japan	<i>Fhb1</i>	3BS	Jia et al. (2005)
BW278	Canada	-	3BSc, 5A, 6B	Cuthbert et al. (2007)
Apache	Europe	<i>Fhb2</i>	6BS,3BS	Paillard et al. (2004)
Dream	Europe	<i>Fhb1</i>	6AL,1B, 2BL, 7BS	Häberle et al. (2009)
Fundulea	Europe	<i>Fhb1</i>	3BS	Somers et al. (2004)
Renan	Europe	<i>Fhb1</i>	2B	Gervais et al. (2003)
Renan	Europe	<i>Fhb6</i>	5AL	Gervais et al. (2003)
Encruzilhada	Brazil	<i>Fhb1</i>	3BS	Jin et al. (2013)
Frontana	Brazil	<i>Fhb1</i>	3BS, 3A, 6A, 4D	Liu et al. (2007)

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Table S1 to be continued

Cultivar	Origin	<i>R</i> gene	Chromosome	Reference
Encruzilhada	Brazil	<i>Fhb1</i>	3BS	Jin et al. (2013)
Mt. Gerizim 36	–	<i>Fhb1</i>	3AS, 6B	Buerstmayr et al. (2013)
G16-92	European	<i>Fhb1</i>	1A, 2BL	Schmolke et al. (2005)
93FHB21	Asia	<i>Fhb2</i>	6B	Yang et al. (2003)
93FHB21	Asia	<i>Fhb1</i>	3BS	Yang et al. (2003)
93FHB37	Canada	<i>Fhb1</i>	3BS	Yang et al. (2003)
DH181	Canada	<i>Fhb2</i>	6BS	Bai et al. (2018)
DH181	Canada	<i>Fhb1</i>	3BS	Yang et al. (2003)
G93010	-	<i>Fhb1</i>	7BS,5BL, 6BS	Häberle et al. (2009)
RCAT L33	Canada	<i>Fhb1</i>	3B, 5A, 3A	Tamburicclincic and Miedaner (2012)
Barletta	Argentina	-	4BS	He et al. (2013)
Arina	Swiss	<i>Fhb1</i>	3BS	Mesterházy et al. (1999)
Blackbird	Persia	<i>Fhb1</i>	3BS	Mesterházy et al. (1999)
NC-Neus	USA	–	1A,1B,1D,4A	Petersen et al. (2016)
Arina	USA	<i>Fhb2</i>	6BS	Bai et al. (2018)
Alsen	USA	<i>Fhb1</i>	3BS	Mueller et al. (2019)
Freedom	USA	<i>Fhb1</i>	3BS	Liu et al. (2012)
VA00 W-38	USA	<i>Fhb7</i>	1BL, 2A, 5B, 6A, 7A	Liu et al. (2012)
Becker	USA	<i>Fhb4</i>	4BS	Liu et al. (2008)
Clark	USA	<i>Fhb4</i>	3BS	Liu et al. (2008)
Ernie	USA	<i>Fhb1</i>	2B, 3BS, 5A	Liu et al. (2008)
Everest	USA	<i>Fhb1</i>	3BS	Guo et al. (2015)
Freedom	USA	<i>Fhb1</i>	3BS	Liu et al. (2012)
IL 94-1653	USA	<i>Fhb2</i>	7B	Gilsinger et al. (2005)
IL-95-1653	USA	<i>Fhb4</i>	4BS	Liu et al. (2008)
Goldfield	USA	<i>Fhb2</i>	7B	Gilsinger et al. (2005)
Patton	USA	<i>Fhb2</i>	6BS	Bai et al. (2018)
Roane	USA	<i>Fhb1</i>	3BS	Bai et al. (2018)
Gamenya	Australia	<i>Fhb1</i>	2DS	Handa et al. (2008)
NK93604	Norway	<i>Fhb2</i>	7AL	Semagn et al. (2014)
F201R	Europe	<i>Fhb5</i>	5A	Shen et al. (2003)
Riband	UK	<i>Fhb2</i>	7D	Draeger et al. (2007)

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