



GENOTYPE	PM	YR	LR	SR	LB	CB
Sofia 1	3.1	2.5	2.9	3.2	2.3	0.4
Albin	3.1	1.7	4.6	8.7	4.2	0.5
T. spelta (Kromeriz)	2.7	2.3	6.5	9	2.9	3.2
Altgold	4.4	3.5	5.8	9	3.2	5.4
Cerealio	3.3	2.2	5.2	8.7	3	5.7
Gugg 2G	3.4	3.8	5.9	8.3	3.6	6.7
Badengold	3.5	1.8	4.7	8.3	3.5	7.5
Spy	3.5	3.6	3.3	8.3	3.5	7.9
Tauro	4	4.7	4.2	9	4.4	8
Gugg 6A	3.1	2	5.8	7.7	3.4	8.5
Toess 5B	3.3	2.8	4.8	8.7	2.8	9.6
LW 12 (Nuertingen)	3.1	2.8	5.8	9	3.3	9.7
Gugg 4E	5.3	1.7	4.7	8.7	3	10
Neuegger Weißkorn (Ngg42)	3.3	2.2	5.8	8.3	3.4	10.4
Ostro	4.3	4.5	4	8.7	3.2	10.4
Gugg 2F	4	3.6	5.4	8.7	2.8	11.2
H57-7	3.8	2.1	4.7	8.7	4.2	11.4
Filderstolz	3.3	5.8	3.6	8.7	3.7	11.5
Gugg 9A	3.4	2.1	6.6	8.7	3.4	12
Öko 10	4.4	4.7	3.6	8.7	3.2	12.1
Franckenkorn	3.5	1.9	4.8	8.7	4.1	12.2
Roter Schlegeldinkel	4.3	3.2	4.2	8.7	3.3	12.5
Frienisberger Weißkorn (Fbg49)	3.7	2.5	6.8	9	4	13.2
Epanis	2.9	2.5	3.4	8.7	4.3	13.4
Riniker Weißkorn	4.4	2.3	4.5	8	2.5	13.4
Hercule	5	2.9	5.3	8.7	4.2	14
Zollernspelz	3.6	1.9	4.3	8	3.8	14
Gugg 5C	3.4	2.6	5.1	8.7	2.8	14.3
Burghof	3.8	2.5	6.5	8.3	3.5	14.4
Ebners Rotkorn	4.1	4.8	4.6	8.7	3.4	14.4
Alkor	3.8	2.5	4.5	9	2.9	14.7
Farnsburger Rotkorn (Fb6)	3.5	3.4	3.8	9	3.3	14.9
LW 13 (Nuertingen)	3.5	2.4	4.9	9	3	14.9
Poeme	4.1	3.3	4.9	8.7	4.8	14.9
Burgdorfer Weißkorn (Bgd1)	4	2.8	6.9	8.7	3.5	15
Willisauer Weißkorn (Wil17)	4	2.6	6.3	8.3	3.8	15.1
Zürcher Oberländer Rotkorn	4.3	5	3.6	9	2.5	15.1
Gugg 4H	4.3	2.7	3.9	9	3	15.2
Rottweiler Dinkel St. 6	4.4	3.1	3.9	8.3	3.6	15.2
Rottweiler Frühkorn	4.9	4.4	5	8.7	3.9	15.3
Zuzgen (Zg15A)	4.6	1.8	5.5	8.7	3	15.5
Schafisheimer Weißkorn (Sch6)	4.3	3.1	6.5	8.7	4.2	15.8
Goldir	4.1	1.8	6.5	8.7	3.8	15.9
Rüfenacher Weißkorn (Rf6)	3.5	2.9	6.9	8.7	3.6	16.2
Zeiners Weißer Schlegeldinkel	3.6	1.6	5.5	9	3.5	16.2
Schnotwiler Weißkorn (Schn35)	4	2.3	5.9	9	3.8	16.4
Huesler Niederwil 19	3.8	3	5.3	8.3	3	16.5
Gugg 9F	3.9	3.4	4.2	9	2.9	16.7
Muri Rotkorn	4.7	4.3	4.3	9	3.4	17.1
Winiger-Egg Weißkorn (We19)	4.1	1.8	6.5	8.7	3.4	17.8
Elsenegger Weißkorn	3.1	2.8	6	8.7	3.3	18
Rosén (Selection)	3.7	4.1	5.3	9	4	18.2
Thürig Rotkorn (Th4)	3.7	2.4	4.2	8.7	3.8	18.2
Oberkulmer	3.9	3.4	4.4	8.7	3.3	19.2
Liestaler Rotkorn (L11)	3.9	3.3	4.5	9	4	19.3
Badenkron	3.5	2.4	3.8	8.3	5.4	19.5
T. spelta (Svetla)	3.5	1.7	5.2	8.7	3.5	19.6
Rouquin	4.1	3.4	4.3	8.7	3.5	19.8
Gugg 11A	2.8	2.6	4.6	9	2.8	19.9
Gugg 5A	4.9	2.5	5.2	8.7	3.3	19.9
Waggershauser Weißer Kolbendinkel	4	2.5	6.4	9	4	20.1
Lonigo	2.8	1.5	5.1	6.7	3.9	20.4
von Rechbergs Früher Winterspelz	3.5	2	5.5	9	5.5	20.6
Holstenkorn	4.2	1.4	6.6	8.7	5	20.7
Toess 6D	3.6	2.7	4.3	9	3.2	20.8
Fuggers Babenhauser Zuchtveesen	4.5	3.2	3.8	8.7	3.7	20.9
von Rechbergs Brauner Winterspelz	4.9	4.2	5.2	9	3.8	20.9
Badenstern	4.3	2.5	5.5		3.3	21.1
Titan	3.5	2.1	4.4	8.7	3.7	21.3
Vorenwalder Weißkorn (Vr15)	3.9	2.5	6.6	9	3.8	21.3
Salez	3.8	3.9	4.1	9	3.4	21.5
Rubiota	3.8	3.1	4.6	8.7	3.8	22.3
T. spelta (Album)	3.6	1.2	4.3	8.7	3.6	22.4
Voegeler, Vögeles Dinkel Weiß	5.2	2.4	5.7	9	3.8	23
Cosmos	3.7	2.8	4.1	8.7	4.8	23.8
Strickhof	3.5	3.6	4.3	9	3.8	24.5
Black Forest	3.1	2.1	3.6	8.3	3.8	25.8
Samir	4.2	5.6	5.3	4.3	3	27.4
Speltvete fran Gotland	2.8	1.3	4	7.3	3.3	27.7
Schwabenspelz	4.9	2.8	4.9	8.7	3.8	28.7

HealthyMinorCereals spelt diversity panel reaction to rusts, powdery mildew, leaf blotch and common bunt

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Table 1

Means for common bunt (CB) [% incidence], leaf blotch (LB), powdery mildew (PM), leaf rust (LR), stem rust (SR) and yellow rust (YR) [1-9 severity scores] incidence/severity scores of the HealthyMinorCereals spelt diversity panel tested across multiple locations and seasons. The panel displayed broad quantitative variation in resistance to fungal diseases, including resistance to common bunt.

Sofia 1 and Albin showed lowest common bunt incidence. Sofia 1 appeared moderately resistant to several fungal pathogens and could be a useful crossing parent.

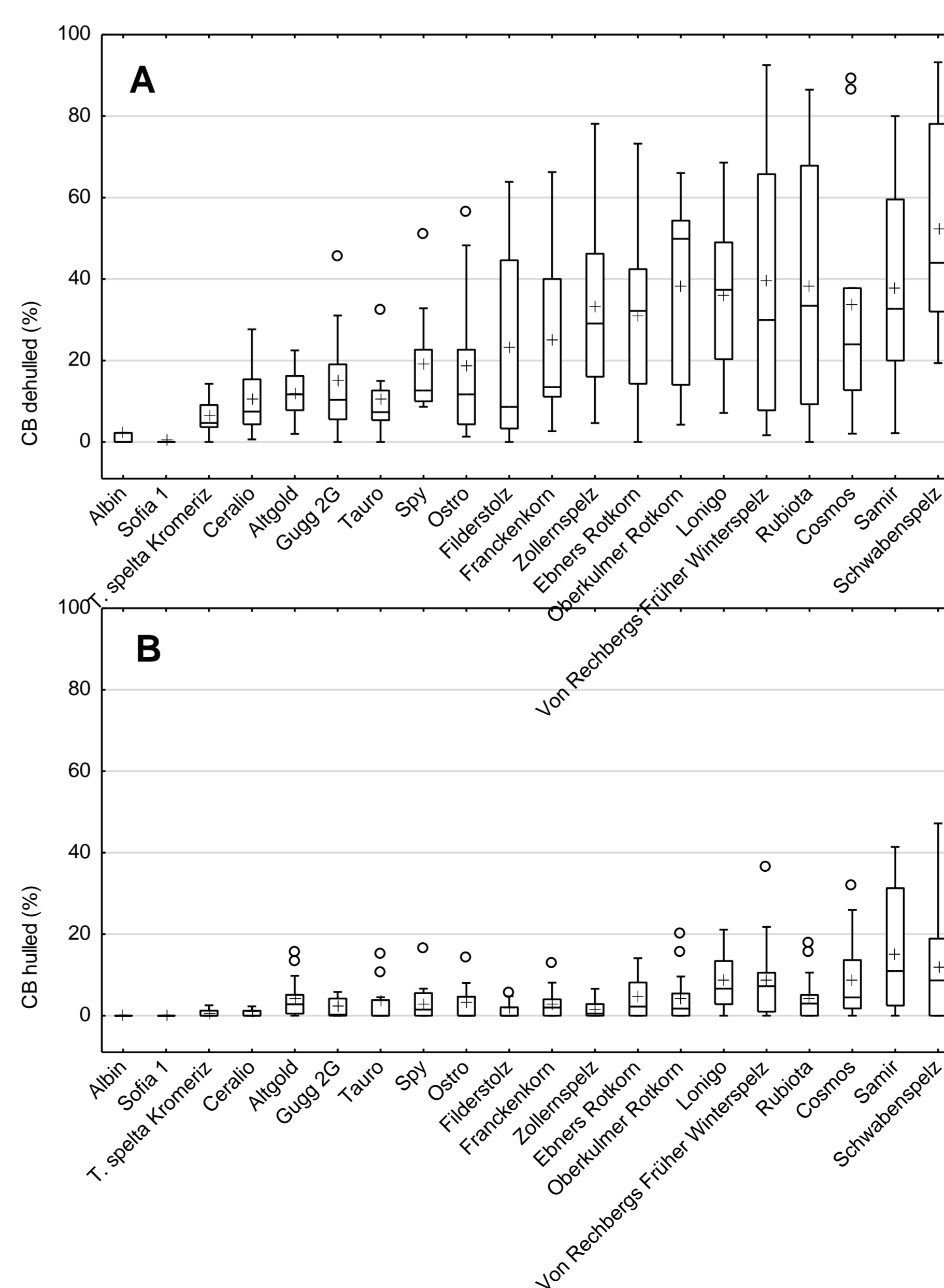


Figure 1
Bunt spore inoculation of dehusked seeds (A) led to significantly higher bunt incidence than inoculation of hulled bunt seeds (B) in artificially inoculated experiments.

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