Supplementary Materials: The Relationship Analysis on Corn Stalk Rot and Ear Rot according to *Fusarium* Species and Fumonisin Contamination in Kernels

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† These authors contributed equally to this work.

			Location	Province	Parts of Maize	F. verticillioides	F. oxysporum	FGSC	F. proliferatum	F. equiseti	F. subglutinas
					stalks	29.2%	25.0%	8.3%	0.0%	37.5%	0.0%
	1	Zhengdan 958	Changzhi	Shanxi	ear stems	20.0%	40.0%	0.0%	0.0%	40%	0.0%
		Ū.	Ũ		corn seeds	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
					stalks	16.0%	16.0%	52.0%	0.0%	16.0%	0.0%
	2	Luyu 1611	Changzhi	Shanxi	ear stems	20.0%	20.0%	40.0%	0.0%	20.0%	0.0%
			-		corn seeds	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%
					stalks	16.7%	20.8%	41.7%	0.0%	20.8%	0.0%
	3	Xianyu 335	Changzhi	Shanxi	ear stems	20.0%	20.0%	40.0%	0.0%	20.0%	0.0%
					corn seeds	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
					stalks	40.0%	20.0%	16.0%	0.0%	24.0%	0.0%
	4	Zhengdan 958	Xinzhou	Shanxi	ear stems	60.0%	20.0%	0.0%	0.0%	20.0%	0.0%
					corn seeds	16.7%	16.7%	33.3%	0.0%	0.0%	16.7%
					stalks	33.3%	20.8%	8.3%	0.0%	37.5%	0.0%
2016	5	Xianyu 335	Xinzhou	Shanxi	ear stems	20.0%	20.0%	40.0%	0.0%	20.0%	0.0%
2016					corn seeds	66.7%	66.7%	0.0%	0.0%	66.7%	0.0%
					stalks	15.8%	10.5%	0.0%	0.0%	26.3%	10.5%
	6	Longdan 9	Pingliang	Gansu	ear stems	20.0%	0.0%	0.0%	40.0	40.0%	0.0%
					corn seeds	60.0%	86.7%	0.0%	0.0%	60.0%	0.0%
					stalks	100.0%	68.0%	0.0%	0.0%	0.0%	0.0%
	7	Longdan 10	Pingliang	Gansu	ear stems	60.0%	40.0%	0.0%	0.0%	0.0%	0.0%
		-			corn seeds	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
					stalks	32.0%	0.0%	48.0%	0.0%	20.0%	0.0%
	8	Xianyu 335	Pingliang	Gansu	ear stems	60.0%	0.0%	0.0%	0.0%	40.0%	0.0%
					corn seeds	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
					stalks	36.0%	16.0%	0.0%	0.0%	40.0%	4.0%
	9	Zhengdan 958	Pingliang	Gansu	ear stems	33.3%	33.3%	0.0%	0.0%	33.3%	0.0%
		-			corn seeds	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	10	Wuke 609	Wuwei	Gansu	stalks	0.0%	24.0%	28.0%	0.0%	40.0%	8.0%

Table S1. Isolation frequency of Fusarium species in 49 samples in 2016, 2017, 2018.

2017

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					ear stems	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%	
					corn seeds	46.7%	100.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	28.0%	20.0%	0.0%	0.0%	52.0%	0.0%	
	11	Zhengdan 958	Wuwei	Gansu	ear stems	40.0%	20.0%	0.0%	0.0%	40.0%	0.0%	
		0			corn seeds	56.7%	56.7%	0.0%	13.3%	0.0%	0.0%	
					stalks	12.5%	20.8%	0.0%	0.0%	4.2%	12.5%	
	12	Xianyu 335	Wuwei	Gansu	ear stems	0.0%	0.0%	0.0%	0.0%	80.0%	0.0%	
		2			corn seeds	0.0%	60.0%	0.0%	0.0%	60.0%	60.0%	
					stalks	0.0%	23.8%	4.8%	19.0%	38.1%	0.0%	
	13	Wuke 620	Wuwei	Gansu	ear stems	0.0%	0.0%	0.0%	40.0%	80.0	0.0%	
					corn seeds	23.3%	100.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	42.9%	14.3%	23.8%	0.0%	14.3%	4.8%	
	14	Wuke 617	Wuwei	Gansu	ear stems	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					corn seeds	40.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	15.8%	0.0%	63.2%	0.0%	21.1%	0.0%	
	15	Zhengdan 958	Changwu	Shaanxi	ear stems	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%	
		0	0		corn seeds	100.0%	100.0%	0.0%	0.0%	100.0%	0.0%	
					stalks	28.6%	23.8%	4.8%	4.8%	38.1%	0.0%	
	16	Xianyu 335	Changwu	Shaanxi	ear stems	50.0%	50.0%	0.0%	0.0%	50.0%	0.0%	
	10 Aldi	5			corn seeds	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	23.8%	14.3%	0.0%	0.0%	61.9%	0.0%	
	17	Shandan 609	Changwu	Shaanxi	ear stems	0.0%	0.0%	60.0%	0.0%	0.0%	0.0%	
			0		corn seeds	0.0%	0.0%	76.7%	0.0%	0.0%	0.0%	
					stalks	20.8%	20.8%	37.5%	0.0%	25.0%	0.0%	
	18	Zhengdan 958	Yulin	Shaanxi	ear stems	25.0%	25.0%	0.0%	0.0%	80.0%	0.0%	
		0			corn seeds	50.0%	50.0%	46.7%	0.0%	0.0%	0.0%	
					stalks	17.4%	30.4%	30.4%	0.0%	21.7%	0.0%	
	19	Longdan 9	Yongning	Ningxia	ear stems	20.0%	40.0%	0.0%	0.0%	40.0%	0.0%	
		0	0 0	0	corn seeds	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	24.0%	28.0%	0.0%	0.0%	48.0%	0.0%	
	20	Xianyu 335	Tongxin	Ningxia	ear stems	20.0%	40.0%	0.0%	0.0%	40.0%	0.0%	
		5	0	0	corn seeds	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	96.0%	96.0%	0.0%	0.0%	0.0%	0.0%	-
	21	Zhengdan 958	Harbin	Heilongji	ear stems	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	
				ang	corn seeds	36.7%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	60.0%	60.0%	0.0%	0.0%	0.0%	0.0%	
7	22	Keyu 16	Harbin	Heilongji	ear stems	80.0%	80.0%	0.0%	0.0%	0.0%	0.0%	
				ang	corn seeds	46.7%	46.7%	0.0%	36.7%	0.0%	0.0%	
					stalks	64.0%	64.0%	20.0%	0.0%	0.0%	0.0%	
	23	Xianyu 335	Changwu	Shaanxi	ear stems	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	
	20				car sterrio	100.070	100.070	0.070	0.070	0.070	0.070	

2018

					corn seeds	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	
					stalks	16.0%	16.0%	8.0%	0.0%	24.0%	0.0%	
	24	Xianyu 696	Changzhi	Shanxi	ear stems	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	
					corn seeds	0.0%	0.0%	100.0%	0.0%	0% $24.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0.0%$ $0.0%$ $0.0%$ $0.0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$ $0%$ $0.0%$ $0.0%$		
					stalks	76.0%	76.0%	0.0%	0.0%	0.0%	0.0%	
	25	Zhengdan 958	Tieling	Liaoning	ear stems	80.0%	80.0%	0.0%	0.0%	80.0%	0.0%	
		-	-	-	corn seeds	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	100.0%	100.0%	0.0%	100.0%	0.0%	0.0%	
	26	Xianyu 335	Tieling	Liaoning	ear stems	80.0%	80.0%	0.0%	80.0%	0.0%	0.0%	
					corn seeds	80.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	56.0 %	56.0%	0.0%	0.0%	0.0%	0.0%	
	27	Xianyu 335	Shenyang	Liaoning	ear stems	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					corn seeds	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	48.0%	28.0%	0.0%	0.0%	0.0%	0.0%	
	28	Zhengdan 958	Panjin	Liaoning	ear stems	20.0%	20.0%	0.0%	0.0%	100.0%	0.0%	
					corn seeds	53.3%	3.3%	43.3%	0.0%	0.0%	0.0%	
					stalks	60.0%	60.0%	0.0%	0.0%	0.0%	0.0%	
	29	Zhengdan 958	Shenyang	Liaoning	ear stems	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	
					corn seeds	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	48.0%	28.0%	0.0%	12.0%	0.0%	0.0%	
	30	Xianyu 335	Tonghua	Jilin	ear stems	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					corn seeds	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	
				T	stalks	52.0%	36.0%	0.0%	0.0%	0.0%	0.0%	
	31	Qingchu 368	Tongliao	Inner	ear stems	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	
				Mongolia	corn seeds	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	84.0%	84.0%	0.0%	0.0%	0.0%	0.0%	
	32	Zhengdan 958	Tongxin	Ningxia	ear stems	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	
					corn seeds	100.0%	100.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	60.0%	60.0%	0.0%	0.0%	0.0%	0.0%	
	33	Xianyu 335	Tongxin	Ningxia	ear stems	100.0%	40.0%	40.0%	0.0%	0.0%	0.0%	
					corn seeds	90.0%	90.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	36.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
	34	Shandan 609	Yulin	Shaanxi	ear stems	60.0%	0.0%	20.0%	0.0%	40.0%	0.0%	
					corn seeds	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%	
					stalks	32.0%	0.0%	0.0%	0.0%	20.0%	0.0%	
018	35	Zhengdan 958	Yulin	Shaanxi	ear stems	0.0%	0.0%	20.0%	0.0%	100.0%	0.0%	
		0			corn seeds	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
					stalks	48.0%	40.0%	0.0%	0.0%	0.0%	0.0%	
	36	Xianyu 335	Changwu	Shaanxi	ear stems	0.0%	40.0%	100.0%	0.0%	0.0%	0.0%	
		2	0		corn seeds	43.3%	6.7%	0.0%	0.0%			

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37 Xianyu 335 Changzhi Shanxi corr stems corn seeds 0.0% 16.7% 0.0% 0.0% 0.0% 6.7% 0.0% 0.0% 0.0% 0.0%					stalks	4.0%	0.0%	48.0%	0.0%	0.0%	0.0%
	37	Xianyu 335	Changzhi	Shanyi							
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	07	Xiany a 666	Changzin	Brianxi							
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corn seeds 23.3% 0.0% 0.0% 0.0% 0.0% 0.0% 39 Dika 517 Changzhi Shank corn seeds 10.0% 40.0% 0.0% 0.0% 0.0% 40 Xianyu 335 Xinzhou Shanxi ear stems 60.0% 0.0% 0.0% 0.0% 0.0% 40 Xianyu 335 Xinzhou Shanxi ear stems 60.0% 0.0% 0.0% 0.0% 0.0% 0.0% 40 Xianyu 335 Xinzhou Shanxi ear stems 60.0% 0.0%	38	Zhengdan 958	Changzhi	Shanxi							
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	39	Dika 517	Changzhi	Shanxi							
40 Xianyu 335 Xinzhou Sharxi ear stems 60.0% ear stems 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%			0								
40 Xianyu 335 Xinzhou Shanxi ear stems 60.0% 0.0%											
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					corn seeds						
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$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					stalks	4.0%	0.0%	68.0%	0.0%	0.0%	
45 Zhengdan 958 Tongxin Ningxia ear stems 0.0% 0.0% 60.0% 40.0% 0.0% 0.0% 45 Zhengdan 958 Tongxin Ningxia ear stems 0.0% 0.0% 60.0% 40.0% 0.0% 0.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% </td <td>44</td> <td>Yufeng 303</td> <td>Xinzhou</td> <td>Shanxi</td> <td>ear stems</td> <td>100.0%</td> <td>0.0%</td> <td>20.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td>	44	Yufeng 303	Xinzhou	Shanxi	ear stems	100.0%	0.0%	20.0%	0.0%	0.0%	0.0%
45 Zhengdan 958 Tongxin Ningxia ear stems 0.0% 0.0% 60.0% 40.0% 0.0% 0.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% <td></td> <td>C</td> <td></td> <td></td> <td>corn seeds</td> <td>76.7%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td> <td>0.0%</td>		C			corn seeds	76.7%	0.0%	0.0%	0.0%	0.0%	0.0%
Kor Corn seeds 40.0% 0.0% 73.3% 6.7% 0.0% 0.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% <					stalks	20.0%	0.0%	88.0%	0.0%	0.0%	0.0%
46 Xianyu 335 Tongxin Ningxia stalks 52.0% 0.0% 0.0% 0.0% 0.0% 0.0% 40.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 46.7% 0.0% 0.0% 6.7% 47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.0%	45	Zhengdan 958	Tongxin	Ningxia	ear stems	0.0%	0.0%	60.0%	40.0%	0.0%	0.0%
46 Xianyu 335 Tongxin Ningxia ear stems 100.0% 0.0% 20.0% 0.0% 0.0% 40.0% 60 0.0% 0.0% 0.0% 0.0% 46.7% 0.0% 0.0% 6.7% 7 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.0					corn seeds	40.0%	0.0%	73.3%	6.7%	0.0%	0.0%
47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 72.0% 0.0% 0.0% 0.0% 47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.					stalks	52.0%	0.0%	0.0%	0.0%	0.0%	0.0%
47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.0% 0.0% 0.0% 47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.	46	Xianyu 335	Tongxin	Ningxia	ear stems	100.0%	0.0%	20.0%	0.0%	0.0%	40.0%
47 Zhengdan 958 Zhenyuan Gansu ear stems 0.0% 0.0% 60.0% 0.0% <t< td=""><td></td><td></td><td></td><td></td><td>corn seeds</td><td>0.0%</td><td>0.0%</td><td>46.7%</td><td>0.0%</td><td>0.0%</td><td>6.7%</td></t<>					corn seeds	0.0%	0.0%	46.7%	0.0%	0.0%	6.7%
48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 0.0% 0.0% 0.0% 0.0% 48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 20.0% 0.0% 0.0% 0.0% 0.0% 0.0% 48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 20.0% 0.0% 0.0% 0.0% 0.0% 48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0%					stalks	56.0%	0.0%	72.0%	0.0%	0.0%	0.0%
48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 80.0% 0.0% 12.0% 0.0% 48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 20.0% 0.0	47	Zhengdan 958	Zhenyuan	Gansu	ear stems	0.0%	0.0%	60.0%	0.0%	0.0%	0.0%
48 Xianyu 335 Zhenyuan Gansu ear stems 60.0% 0.0% 20.0% 0.0% 0.0% 0.0% corn seeds 6.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% stalks 60.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%					corn seeds	33.3%	0.0%	0.0%	0.0%	0.0%	0.0%
corn seeds 6.7% 0.0%					stalks	20.0%	0.0%	80.0%	0.0%	12.0%	0.0%
stalks 60.0% 0.0% 0.0% 0.0% 0.0% 0.0%	48	Xianyu 335	Zhenyuan	Gansu	ear stems	60.0%	0.0%	20.0%	0.0%	0.0%	0.0%
					corn seeds	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%
40 Viewe 22 Zhanner Cancil aar stama 0.00/ 40.00/ 100.00/ 0.00/ 0.00/ 0.00/					stalks		0.0%	0.0%	0.0%	0.0%	0.0%
	49	Yuyu 22	Zhenyuan	Gansu	ear stems	0.0%	40.0%	100.0%	0.0%	0.0%	0.0%
corn seeds 16.7% 6.7% 23.3% 0.0% 0.0% 0.0%					corn seeds	16.7%	6.7%	23.3%	0.0%	0.0%	0.0%

Region	No. of Total Samples	Average Temperature (°C)	Mean Relative Humidity (%)	Sample Year	
Wuwei	5	25	38	2016	
Pingliang	4	23	60	2016	
Changzhi	3	25	58	2016	
Changwu	3	22	47	2016	
Xinzhou	2	25	55	2016	
Yulin	1	23	44	2016	
Yongning	1	27	39	2016	
Tongxin	1	26	40	2016	
Harbin	2	21	63	2017	
Tieling	2	24	67	2017	
Shenyang	2	24	60	2017	
Tongxin	2	24	38	2017	
Changwu	1	20	55	2017	
Changzhi	1	24	55	2017	
Panjin	1	25	66	2017	
Tonghua	1	23	72	2017	
Tongliao	1	24	51	2017	
Xinzhou	5	22	54	2018	
Zhenyuan	3	21	57	2018	
Changzhi	3	21	57	2018	
Yulin	2	19	45	2018	
Tongxin	2	21	42	2018	
Changwu	1	20	45	2018	

Table S2. Sampling information.

Province	Geographic Location	Year	Zhengdan 958	Xianyu 335	Local Main Varieties
		2016	\checkmark	\checkmark	Luyu 1611
	Changzhi	2017			Xianyu 696
	-	2018	\checkmark	\checkmark	Dika 517
Shanxi		2016	\checkmark	\checkmark	
	Vin -h - · ·				M753
	Xinzhou	2018	\checkmark	\checkmark	Dafeng30
					Yufeng303
		2016	\checkmark	\checkmark	Shandan 609
	Changwu	2017		\checkmark	
Shaanxi	0	2018		\checkmark	
	V. l'a	2016	\checkmark		
	Yulin	2018	\checkmark		Shandan 609
		2016		\checkmark	
Ningxia	Tongxin	2017	\checkmark	\checkmark	
Ũ	0	2018	\checkmark	\checkmark	

Table S3. Sample collection of corn stalk rot.

Province	Geographic Location	Year	Zhengdan 958	Xianyu 335	Local Main Varieties
	Dingliong	2016		\checkmark	Longdan 9
_	Pingliang	2016	N	N	Longdan 10
Comm					Wuke 609
Gansu	Wuwei	2016	\checkmark	\checkmark	Wuke 620
					Wuke 617
-	Zhenyuan	2018			Yuyu 22
Ningxia	Yongning	2016			Longdan 9
Heilongjiang	Harbin	2017			Keyu 16
	Tieling	2017			÷
Liaoning	Shenyang	2017			
	Panjin	2017			
Jilin	Tonghua	2017			
Inner Mongolia	Tongliao	2017			Qingchu 368

Table S4. Supplementary samples of corn stalk rot.