

Screening of *Vitis* genotypes against *Botrytis cinerea* and response of antioxidant enzymes, reactive oxygen species and jasmonic acid in resistant and susceptible-hosts

Mati Ur Rahman ^{1,2†}, MuhammadHanif ^{1,2†}, Ran Wan ^{1,3}, Xiaoqing Hou ^{1,2}, Bilal Ahmad ^{1,2}, Xiping Wang ^{1,2*}

¹State Key Laboratory of Crop Stress Biology in Arid Areas, College of Horticulture, Northwest A&F University, Yangling, Shaanxi 712100, China

²Key Laboratory of Horticultural Plant Biology and Germplasm Innovation in Northwest China, Ministry of Agriculture, Northwest A&F University, Yangling, Shaanxi 712100, China

³ College of Horticulture, Henan Agriculture University, Zhengzhou, Henan 450002, China

† These authors have contributed equally to this research work.

*Corresponding author: wangxiping@nwsuaf.edu.cn

Table S1. *Vitis* species evaluated in this study are listed with their botanical names, author names and plant family in the table given below.

S.No.	Species	Family name	Authors name
1.	<i>Vitis vinifera</i> L.	<i>Vitaceae</i>	Carl Linnaeus
2.	<i>Vitis labrusca</i> L.	<i>Vitaceae</i>	Carl Linnaeus
3.	<i>Vitis amurensis</i> Rupr.	<i>Vitaceae</i>	Franz Josef Ruprecht
4.	<i>Vitis davidii</i> Foex	<i>Vitaceae</i>	Gustave Foëx
5.	<i>Vitis riparia</i> Michx.	<i>Vitaceae</i>	André Michaux

Table S2 .Lesions percentage on the leaves of 81 *Vitis* genotypes infected with *B. cinerea* from 2016 to 2017.

Specises	Name of cultivars	Lesions percentages (%)	
		2016	2017
<i>Vitis vinifera L</i>	Beauty Seedless	69.6 ± 1.53	71.0 ± 2.00
<i>V. vinefera L x V. Amurensis Rupr</i>	Beibinghong	74.2 ± 0.93	75.1 ± 0.81
<i>V. vinefera L x V. Amurensis Rupr</i>	Beichun	90.6 ± 1.15	91.3 ± 1.53
<i>V. vinefera L x V. Amurensis Rupr</i>	Beihong	23.5 ± 0.62	22.6 ± 0.61
<i>Vitis vinifera L</i>	Bixiang Seedless	82.0 ± 1.73	81.9 ± 1.82
<i>Vitis vinifera L</i>	Black Rose	69.0 ± 2.00	67.0 ± 2.60
<i>Vitis vinifera L</i>	Blue French	70.0 ± 1.00	69.7 ± 2.10
<i>Vitis vinifera L</i>	Blush Seedless	54.3 ± 1.15	56.6 ± 1.53
<i>Vitis vinifera L</i>	Cabernet Sauvignon	9.3 ± 0.58	12.0 ± 0.00
<i>Vitis vinifera L</i>	Canner Seedless	20.5 ± 0.87	20.6 ± 0.76
<i>Vitis vinifera L</i>	Cannero	70.5 ± 0.87	71.5 ± 0.50
<i>Vitis vinifera L</i>	Carignan	96.5 ± 1.32	97.5 ± 0.50
<i>Vitis vinifera L</i>	Chardonnay	92.0 ± 1.73	90.0 ± 1.73
<i>Vitis vinifera L</i>	Chenin Blanc	18.0 ± 1.00	20.0 ± 1.7
<i>Vitis vinifera L</i>	Cinsault	90.0 ± 2.00	87.3 ± 1.50
<i>Vitis vinifera L</i>	Crimson seedless	95.3 ± 2.08	96.4 ± 1.69
<i>Vitis vinifera L</i>	Dabai Grape	66.3 ± 1.53	64.7 ± 1.50
<i>V. vineferax V. Ibrusca L.</i>	Dongfangzhixing	92.3 ± 1.53	90.3 ± 1.53
<i>Vitis vinifera L</i>	Early Muscat	94.0 ± 1.00	96.0 ± 2.00
<i>Vitis vinifera L</i>	Flame Seedless	25.3 ± 1.53	27.7 ± 1.50
<i>Vitis vinifera L</i>	Fresno Seedless	25.2 ± 2.42	22.6 ± 2.80

<i>V.vineferaxV.lbrusca L.</i>	Gold Finger	73.3 ± 2.89	75.6 ± 2.08
<i>V.vineferaxV.lbrusca L.</i>	Heibaladuo	22.6 ± 0.58	24.0 ± 0.95
<i>Vitis vinifera L</i>	Heisetiancai	94.9 ± 0.85	93.3 ± 0.61
<i>Vitis vinifera L</i>	Hongmunage	44.1 ± 0.76	43.8 ± 0.76
<i>V.vineferaxV.Lbrusca L.</i>	Hu tai 8	94.2 ± 0.64	94.1 ± 0.76
<i>Vitis vinifera L</i>	Italian Riesling	44.6 ± 0.58	42.7 ± 0.60
<i>Vitis vinifera L</i>	Jing xiu	85.0 ± 0.40	84.1 ± 0.61
<i>Vitis vinifera L</i>	Jingkejing	69.6 ± 1.15	73.6 ± 1.53
<i>Vitis vinifera L</i>	Jingzaojing	83.6 ± 1.53	84.3 ± 1.53
<i>Vitis vinifera L</i>	Jinxiangyu	66.3 ± 1.53	68.0 ± 1.00
<i>Vitis vinifera L</i>	Jumeigui	8.9 ± 0.15	8.7 ± 0.52
<i>V. riparia. × V. labrusca L.</i>	Kangsan	15.7 ± 0.70	16.0 ± 0.30
<i>V.vineferaxV.lbrusca L.</i>	Kyoho	58.2 ± 0.68	58.2 ± 0.64
<i>Vitis vinifera L</i>	Lady Finger	71.8 ± 2.02	74.5 ± 1.32
<i>Vitis vinefera</i>	Long Emprer	33.3 ± 2.08	32.0 ± 2.65
<i>Vitis vinifera L</i>	Malta Seedless	60.6 ± 2.08	57.0 ± 1.00
<i>Vitis vinifera L</i>	Manaizi	92.6 ± 0.58	93.3 ± 0.58
<i>Vitis vinifera L</i>	Marselan	15.6 ± 1.53	16.3 ± 0.58
<i>Vitis vinifera L</i>	May Purple	25.6 ± 5.13	23.7 ± 4.70
<i>Vitis vinifera L</i>	Merlot	82.8 ± 1.26	86.5 ± 1.32
<i>Vitis vinifera L</i>	Moldova	91.3 ± 0.70	94.3 ± 0.58
<i>Vitis vinifera L</i>	Mr Mori	98.1 ± 0.76	91.8 ± 0.29
<i>Vitis vinifera L</i>	Muscat Blanc	46.8 ± 1.76	48.6 ± 1.53
<i>Vitis vinifera L</i>	Muscat of Alexandia	23.3 ± 2.08	24.3 ± 1.20
<i>Vitis vinifera L</i>	Muscat Rose	62.6 ± 0.58	66.3 ± 0.60

<i>V.vineferaxV.lbrusca L.</i>	Neptune Seedless	28.1 ± 0.76	26.5 ± 0.87
<i>Vitis vinifera L</i>	Otilia Seedless	87.0 ± 2.65	85.6 ± 2.08
<i>Vitis vinifera L</i>	Pearl of Csaba	75.6 ± 0.58	73.7 ± 0.60
<i>Vitis vinifera L</i>	Perlette	45.8 ± 0.76	46.6 ± 0.58
<i>Vitis vinifera L</i>	Phoenix NO.51	80.6 ± 1.15	82.0 ± 1.00
<i>Vitis vinifera L</i>	Pinot Noir	89.3 ± 0.58	86.7 ± 0.60
<i>Vitis vinifera L</i>	Prince Seedless	9.3 ± 1.15	9.6 ± 0.58
<i>Vitis vinifera L</i>	Qiumanai	22.3 ± 1.53	23.3 ± 1.50
<i>Vitis vinifera L</i>	Queen	10.6 ± 1.15	10.7 ± 1.50
<i>Vitis vinifera L</i>	Red Globe	73.2 ± 0.72	71.5 ± 0.51
<i>Vitis vinifera L</i>	Red Hanepoot	71.3 ± 2.08	73.0 ± 2.60
<i>Vitis vinifera L</i>	Riesling	98.1 ± 0.76	99.0 ± 1.00
<i>Vitis vinifera L</i>	Rizamat	19.3 ± 0.58	20.1 ± 0.76
<i>Vitis vinifera L</i>	Rkatsiteli	61.6 ± 2.52	68.3 ± 2.10
<i>Vitis vinifera L</i>	Ruby Seedless	77.3 ± 2.08	78.3 ± 2.89
<i>Vitis vinifera L</i>	Russian Seedless	16.6 ± 1.53	17.6 ± 1.15
<i>Vitis vinifera L</i>	Sangiovese	62.9 ± 0.10	63.2 ± 0.68
<i>Vitis vinifera L</i>	Sauvignon Blanc	55.0 ± 2.65	56.3 ± 2.10
<i>Vitis vinifera L</i>	Semillon	88.0 ± 0.00	82.3 ± 0.58
<i>Vitis vinifera L</i>	Sultanina Rose	38.6 ± 1.15	38.3 ± 0.60
<i>V.vineferaxV.lbrusca L.</i>	Summer Black	93.7 ± 0.86	94.1 ± 0.72
<i>Vitis vinifera L</i>	Thompson Seedless	63.3 ± 1.23	63.0 ± 1.10
<i>V.vineferaxV.lbrusca L.</i>	Tian yuan qi	87.8 ± 1.04	86.2 ± 0.72
<i>Vitis vinifera L</i>	Tokay	90.3 ± 1.15	91.3 ± 1.53
<i>Vitis vinifera L</i>	Ugni Blanc	92.6 ± 3.51	96.6 ± 2.31

<i>Vitis vinifera L</i>	Victoria	84.0 ± 2.00	83.3 ± 2.08
<i>Vitis vinifera L</i>	Wink	93.2 ± 0.64	94.7 ± 0.49
<i>Vitis amurensis</i>	Xuelanhong	91.5 ± 1.80	92.0 ± 1.01
<i>Vitis vinifera L</i>	Yangle	34.3 ± 2.52	36.0 ± 2.65
<i>Vitis vinifera L</i>	Yatomi Rosa	88.8 ± 1.03	90.7 ± 1.47
<i>Vitis vinifera L</i>	Yilixiang	57.6 ± 1.53	56.0 ± 2.65
<i>V.vineferaxV.lbrusca L.</i>	Zaojinxiang	11.3 ± 1.15	10.3 ± 1.53
<i>Vitis vinifera L</i>	Zhana	46.3 ± 1.53	47.7 ± 0.60
<i>Vitis davidii</i>	Ziqiu	2.7 ± 0.44	3.0 ± 0.80
<i>V.vineferaxV.lbrusca L.</i>	Zuijinxiang	53.1 ± 1.04	51.6 ± 1.15