KEY TO DISEASE RESISTANCE | INTERSEMILLAS

Capsicum annuum (PEPPER)

Diseases are one of the main causes of crop losses. The cultivated plants coexist with a multitude of microorga-nisms such as viruses, bacteria, fungi or nematodes. Sometimes, the interaction with certain microorganisms produces visible damages in the plants.

A disease is nothing more than an alteration of the normal development of a plant as a result of the prolonged interaction between the plant and a microorganism under favorable environmental conditions. Plant breeding has offered and can offer solutions through the development of disease resistant varieties.

Two levels of resistance are defined High or standard resistance (HR) and Moderate or intermediate resistance (IR)

Scientific name	English common name	Code
Viruses		·
Pepper mild mottle virus	Pepper mild mottle	PMMoV
Pepper mild mottle virus	Pepper mild mottle Gen (L3)	PMMoV:1,2 (L3)
Pepper mild mottle virus	Pepper mild mottle Gen (L4)	PMMoV:1,2,3 (L4)
Tobacco mosaic virus	Tobacco mosaic Gen (L1)	TMV:0 (L1)
Tomato mosaic virus	Tomato mosaic	ToMV
Tomato spotted wilt virus	Tomato spotted wilt	TSWV
Bacteria		
2Xanthomonas campestris pv. vesicatoria (now Xanthomonas spp)	Bacterial spot	Xcv (now X spp)
Cucumis melo (MELON)		
Scientific name	English common name	Code
Viruses		
Melon necrotic spot virus	Melon necrotic spot	MNSV
Fungi		
Fusarium oxysporum f. sp. melonis	Fusarium wilt	Fom
Podosphaera xanthii	Powdery mildew	Рх
C : (CUCUMPER)		
Cucumis sativus (CUCUMBER)	E 1:1	
Scientific name	English common name	Code
Viruses		

Cucumber vein yellowing

Cucurbit yellow stunting disorder

CVYV

CYSDV

Cucumber vein yellowing virus

Cucurbit yellow stunting disorder virus

Scientific name	English common name	Code
Viruses	-	
Cucumber mosaic virus	Cucumber mosaic	CMV
Watermelon mosaic virus	Watermelon mosaic	WMV
Zucchini yellow mosaic virus	Zucchini yellows	ZYMV
Fungi		
Fusarium oxysporum f. sp. niveum	Fusarium wilt	Fon
Podosphaera xanthii	Powdery mildew	Px
·		·
Solanum lycopersicum (ex Lycoperscico		
Scientific name	English common name	Code
Viruses		
Tobacco mosaic virus	Tobacco mosaic	TMV
Tomato mosaic virus	Tomato mosaic	ToMV
Tomato spotted wilt virus	Tomato spotted wilt	TSWV
Tomato yellow leaf curl virus	Tomato yellow leaf curl	TYLCV
Bacteria		
Pseudomonas syringae pv. tomato	Bacterial speck	Pst
Fungi		
Alternaria solani	Early blight	As
6Passalora fulva (ex Fulvia fulva)	Leaf mold	Pf (ex Ff)
Fusarium oxysporum f. sp. lycopersic	Fusarium wilt	Fol
Fusarium oxysporum f. sp. radicis-lycopersici	Fusarium crown and root rot	For
Phytophthora infestans	Late blight	Pi
Verticillium albo-atrum	Verticillium wilt	Va
Verticillium dahliae	Verticillium wilt	Vd
Nematodes		
Meloidogyne arenaria	Root-knot	Ma
Meloidogyne incognita	Root-knot	Mi
Meloidogyne javanica	Root-knot	Мј