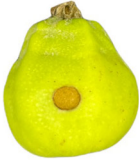












Index	0	1	2	3	4	5
Water soaking	0%	1%-10%	11%-25%	26%-50%	51%-75%	71%-100%
Browning	0%	1%-10%	11%-35%	36%-55%	56%-80%	81%-100%
Symptoms						

**Supplementary Fig. 1.** The criteria for the disease index of fire blight disease on immature apples. The disease severity was evaluated based on the area of browning or water soaking symptoms of the total surface area, according to the criteria listed in the table.

Index	0	1	2	3	4
Severity	0-10%	11%-30%	31%-60%	61%-80%	81%-100%
Symptoms					

**Supplementary Fig. 2.** The criteria for the disease index of fire blight disease on apple plantlets. The disease severity was evaluated based on the area of symptoms appearing on the total surface area of the plant, according to the criteria listed in the table.