

Določanje fitoplazme leptonekroze koščičarjev (European Stone Fruit Yellows, ESFY) v Sloveniji

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Fitoplazme, mali prokarioti brez celične stene, živijo v gostiteljskih rastlinah le v sitastih ceveh. Prenašajo se z žuželčjimi prenašalci in vegetativnim razmnoževanjem. Leptonekroza koščičarjev je nevarno obolenje, ki ga povzroča fitoplazma *European Stone Fruit Yellows* (ESFY) iz skupine metličavosti jablan (*Apple proliferation group*). V zadnjih letih na osnovi vizualnih pregledov sadovnjakov poročajo o povečani zastopanosti in širjenju teh obolenj v Sloveniji, zato smo uvedli občutljive in specifične molekularno biotične teste za njihovo določanje. ESFY fitoplazmo smo potrdili z metodami verižne reakcije polimeraze (PCR), *nested* PCR in polimorfizmom dolžin restrikcijskih fragmentov (RFLP) v marelicah, breskvah, nektarinah, mirabolanih in slivah iz različnih predelov Slovenije.

ABSTRACT

Detection of European Stone Fruit Yellows phytoplasma in Slovenia

Phytoplasmas are small wall-less prokaryotes that live exclusively in sieve tubes of their plant hosts and are transmitted by insect vectors and vegetative propagation. In Europe, stone fruits are severely affected by European Stone Fruit Yellows (ESFY) caused by phytoplasmas belonging to apple proliferation group (16SrX). Recently, progress of ESFY disease in Slovenia was reported based on visual assessments of symptoms. For the routine detection of ESFY sensitive and specific molecular methods were introduced. The presence of ESFY phytoplasmas was confirmed by polymerase chain reaction (PCR), nested PCR and restriction fragment length polymorphism (RFLP) analyses in apricot, peach, nectarine, mirabolan and plum trees from different regions in Slovenia.