First report of fruit tree phytoplasmas and their psyllid vectors in Bosnia and Herzegovina.

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Abstract : During autumn 2004, orchards were surveyed in seven districts of north-western, central and southern Bosnia and Hercegovina for the presence of phytoplasma diseases. Symptoms of apple proliferation (AP), pear decline (PD) and European stone fruit yellows (ESFY) were observed in several districts. Samples were collected for laboratory analyses from a number of symptomatic and symptomless fruit trees. In the same orchards, during spring 2005, vectors of AP (*Cacopsylla costalis* [*Psylla costalis*] and *C. melanoneura* [*P. melanoneura*]), PD (*C. pyri*) and ESFY (*C. pruni*) were collected and analysed for the presence of the respective phytoplasmas. Laboratory analyses showed the presence of phytoplasmas belonging to: (i) 16SrX group, subgroup A (*Candidatus* Phytoplasma mali) in apples and in *C. costalis* and *C. melanoneura*; (ii) 16SrX group, subgroup C (*Candidatus* Phytoplasma pyri) in pears and in *C. pyri*; and (iii) 16SrX group, subgroup B (*Candidatus* Phytoplasma prunorum) in apricots and peaches and in *C. pruni*. This is thought to be the first report of AP, ESFY and their respective psyllid vectors in Bosnia and Hercegovina.

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Organism Descriptors : (15)

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Organism descriptor(s) : Bacteria, Cacopsylla melanoneura, Cacopsylla picta, Cacopsylla pyri, Malus, Malus pumila, Phytoplasma, Phytoplasma mali, Phytoplasma pyri, Prunus, Prunus armeniaca, Prunus persica, Psylla, Pyrus, Pyrus communis
Descriptor(s) : apples, apricots, disease vectors, geographical distribution, pathogens, peaches, pears, plant diseases, plant pathogenic bacteria, plant pathogens, vectors
Identifier(s) : bacterium, Cacopsylla pruni, Candidatus Phytoplasma mali, Candidatus Phytoplasma pyri, pear, phytopathogenic bacteria, phytopathogens, phytoplasmas, plant-pathogenic bacteria, Psylla costalis, Psylla melanoneura
Geographical Location(s) : Bosnia-Hercegovina
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