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### Molecular properties of phytoplasma associate with Acacia yellows in Iran

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In recent years, Phytoplasma-like symptoms which included bunchy growth, yellows and little leaf were observed in *Acacia saligna* (Acacia, Orange Wattle) trees in landscape of Mehrabad airport, Iran. The affected trees were in a poor state of health or appeared to be dying. A sensitive, diagnostic method based on the Polymerase Chain Reaction (PCR) was used to detect the presence of phytoplasma in symptomatic and asymptomatic leaf samples from the trees. In this order, Total DNA was extracted from plant samples according to the standard procedures and indexed by grafting and nested PCR using phytoplasma generic primers, P1/P7 and R16F2n/R2. PCR products were characterized by RFLP technique and direct sequencing. The 16S rDNA sequences were compared with those of other phytoplasmas in GenBank. Phytoplasma rDNA was amplified from 20 out 35 samples. The amplified PCR products were sequenced and the sequences submitted to Genbank. Sequence analysis indicated that the phytoplasma detected in plants belonged to the 16Sr IX group and was closely related to *Candidatus phytoplasma phoenicium* which is considered to be the causal agent of Almond witches' broom in Iran.

### Biography

Shahrokh Panahi is working in landscape division of Mehrabad airport in Iran, landscape management, pest and disease management and study of new landscape problems make me an professional expert in this field. I'm interesting find causal agent of new emerging disease in landscapes. In this order he is collaborated with horticulture research division sociality Dr, Pouraghdam.

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