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## A numerical taxonomic study of the two species *Prunus armeniaca* L. ,*P. xdomestica* L. From the Rosaceae family and cultivated in northern Iraq

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### A B S T R A C T

The current research dealt with a numerical study of general and precise morphological characteristics and anatomical characteristics for (6) cultivars of Apricots *Prunus armeniaca* L. she Sayeb, Canion, Castelbrite, Priana, Sndyany, Zaginia. In addition to (6) cultivars of Plum *Prunus xdomestica* L. Songold, Freedom, Showtime, Pissardi, Italica, Sant Rosa part of the Rosaceae family). All these cultivars grown in a cultured manner in different regions of northern Iraq, including Dohuk (Zakho and Zawitya), Erbil (Hiran district) and Mosul (Yaramchek). Computational methods were used in the current research to find relationships and differences between the taxonomic ranks of the two species of the genus *Prunus*. The studied cultivars were used as scientific classification units, which relied on morphological and anatomical aspects in order to find the degree of similarity between the studied Apricot and Plum cultivars, The studied items were converted into digital data, placed in a numerical matrix, and analyzed statistically through the computer and using the program (SPSS20). (50) traits were selected, and among the numerical classification methods, the cluster analysis method was chosen, as its results appeared in the form of a hierarchical dendrogram. The Pissardi cultivars was unique to the *P. xdomestica*. In a planned form, which confirms its difference in the studied characteristics, this was confirmed by the tree diagram, as this appeared in the cultivars in different locations and far from most of the studied cultivars. The Priana and Sndyany cultivars of *P. armeniaca* are very similar in external and anatomical appearance in all selected cultivars. The tree diagram indicated this, which confirms that it belongs to the same species, which is *P. armeniaca*, by 93.4%.

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## دراسة تصنيفية عددية للنوعين *Prunus armeniaca* L. و *P. xdomestica* L.

### من العائلة الوردية والمزروعة في شمال العراق

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الخلاصة:

تناول البحث الحالي دراسة عددية لصفات المظهرية العامة والدقيقة والصفات التشريحية لـ (6) أصناف من المشمش *Prunus armeniaca* L هي Sayeb و Canion و Castelbrite و Priana و Sndyany و Zaginia و (6) أصناف من الاجاص *Prunus xdomestica* L هي Songold و Freedom و Showtime و Pissardi و Italica و Sant Rosa من العائلة الوردية Rosaceae النامية بصورة مستزرعة في مناطق مختلفة من شمال العراق منها زاخو وزاويته التابعة لمحافظة دهوك وناحية هيران في أربيل وقضاء يارمجة في محافظة نينوى. من خلال النتائج التي تم الحصول عليها بشكل مخطط شجري (Hierarchical Dendrogram). انفرد الصنف Pissardi للنوع *P. xdomestica* بشكل مخططة مما يؤكد اختلافه في الصفات المدروسة حيث ظهر بعيدا عن معظم الأصناف المدروسة. وقد تشابه الصنفان Priana و Sndyany للنوع *P. armeniaca* كثيرا في المظهر الخارجي والتشريحي في جميع الأصناف المنتخبة وبنسبة 93.4%. الكلمات المفتاحية: التصنيف العددي، المشمش، الاجاص، العائلة الوردية