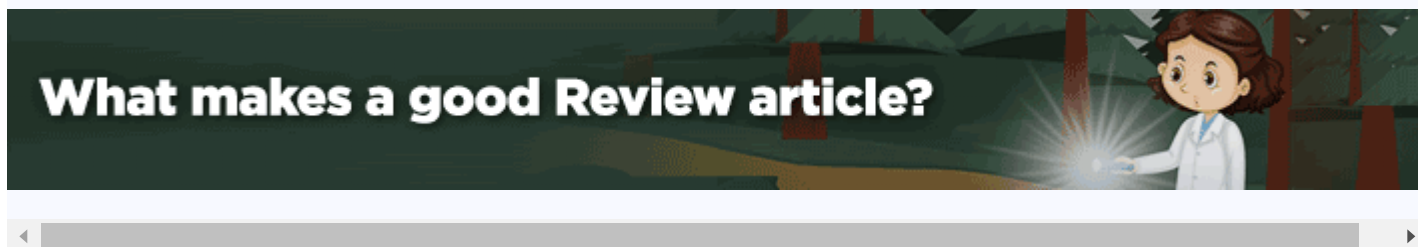


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Evaluation of Genetic Diversity of 17 Populations (*Lepidium sativum* L.) Plant Collected from Different Regions of Iran by RAPD Marker

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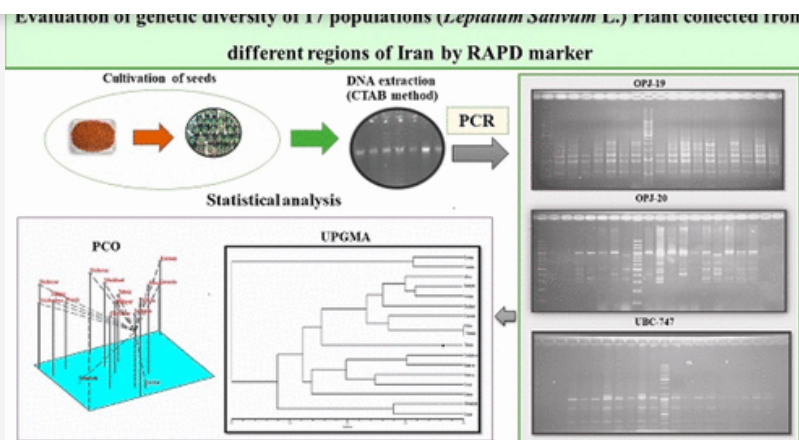
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This search aimed to investigate the genetic diversity of 17 different phenotypes collected from a *Lepidium sativum* plant from different regions of Iran province and investigate kinship relationships. DNA was extracted from leaf samples using the CTAB method. To evaluate 8 RAPD primers' genetic diversity, a total of 70 bands were amplified, 47 polymorphic bands and 23 single bands, with the highest number of OPJ-10 primers with 13 bands and the lowest number of OPA-09 and OPB-01 primers with five bands. The OPJ-10 primer had the highest EMR values of 10.8 and β of 0.9, and this value was zero in the EMR, β primers OPB-01 and OPA-09. In cluster analysis using the UPGMA method (with a genetic distance of 0.84), the six studied populations were classified. The highest genetic distance was obtained between Kerman and Joupar populations (with a genetic similarity of 0.69), which can be used to produce hybrid cultivars and heterosis productivity.

KEYWORDS: [genetic diversity](#), [Lepidium sativum](#), [RAPD](#), [cluster analysis](#)

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