## **Supplementary**



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Suppl. Fig. 1. RAPD fingerprinting produced by primers OPH-3 (a), OPW-17 (b), OPC-16 (c) and OPD-12 (d) of eight M3 seed coat segregating genotypes, in addition, to control and M2 50Gy of cv Abo Yousuf. Notched arrow(s) indicated polymorphic band(s) and normal arrow(s) refers to monomorphic band(s) for specific genotype(s)



Dendrogan with Humology Coefficient \$210 (UPENA.)

100% 93 803 70 弥 81 R 60% 31 101 😭 group 🗍 Mi Brown Purple Centrel MS Brown Green MB G. Brenn Purple 5% group I MD Gray Purple NS Park Brown MS Raddhh Brown 12

Suppl. Fig. 2. Dendrogram illustrates the differentiation of eight M3 seed coat segregating genotypes, in addition, to control and M2 50Gy of cv Abo Yousuf constructed by the UPGMA cluster analysis based on RAPD fingerprinting using primers: OPH-3 (a), OPW-17 (b), OPC-16 (c) and OPD-12 (d). G= grayish

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Suppl. Fig. 3. ISSR fingerprinting produced by primers A (a) and D (b) of eight M3 seed coat segregating genotypes, in addition, to control and M2 50Gy of cv Abo Yousuf. Notched arrow(s) indicated polymorphic band(s) and normal arrow(s) refers to monomorphic band(s) for specific genotype(s)



Suppl. Fig. 4. Dendrogram illustrates the differentiation of eight M3 seed coat segregating genotypes, in addition, to control and M2 50Gy of cv Abo Yousuf constructed by the UPGMA cluster analysis based on ISSR fingerprinting using primers: A (a) and D (b). G= grayish

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