

**Supplementary Table S3.** Analysis of molecular variance (AMOVA) based on geographic populations using 36 g-SSRs among and within subpopulation of 94 amaranth accessions.

<b>Source</b>	<b>df</b>	<b>SS</b>	<b>MS</b>	<b>Est. Var.</b>	<b>%</b>
<b>Among Pops</b>	7	214.945	30.706	1.181	11%
<b>Among Indiv</b>	86	678.209	7.886	0.000	0%
<b>Within Indiv</b>	94	909.500	9.676	9.676	89%
<b>Total</b>	187	1802.654		10.857	100%

**df:** degrees of freedom

**SS:** sum of squares

**MS:** mean squares

**Est. Var.:** Estimated Variance