

Table S1 Pairwise correlation coefficients between thousand seed weight and seed size traits for sesame under two environments

Environment	Trait	tsw	sl	sw	lwr	sp	sd	sa	sc
Hainan	tsw	1							
	sl	0.286**	1						
	sw	0.473**	0.904**	1					
	lwr	-0.393**	0.281**	-0.154	1				
	sp	0.357**	0.987**	0.951**	0.147	1			
	sd	0.360**	0.986**	0.960**	0.123	0.996**	1		
	sa	0.397**	0.974**	0.975**	0.062	0.992**	0.996**	1	
	sc	0.331**	-0.454**	-0.040	-0.963**	-0.333**	-0.305**	-0.251**	1
Yuanyang	tsw	1							
	sl	-0.184*	1						
	sw	-0.200*	0.936**	1					
	lwr	-0.028	0.470**	0.130	1				
	sp	-0.186*	0.993**	0.964**	0.382**	1			
	sd	-0.205*	0.984**	0.981**	0.313**	0.993**	1		
	sa	-0.197*	0.983**	0.982**	0.307**	0.993**	0.999**	1	
	sc	0.064	-0.602**	-0.287**	-0.976**	-0.522**	-0.461**	-0.454**	1

*Significant at $P \leq 0.05$; **Significant at $P \leq 0.01$.

tsw, thousand seed weight; sl, seed length; sw, seed width; lwr, length-to-width ratio; sp, seed perimeter; sd, seed diameter; sa, seed area; sc, seed circularity.