



SDI Review Form 1.6

Journal Name:	Asian Journal of Biochemistry, Genetics and Molecular Biology
Manuscript Number:	Ms_AJBGMB_41210
Title of the Manuscript:	Variability, heritability, genetic advance and interrelationships for agronomic and yield traits of sorghum B-lines under different environments
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The article aims at determining important genetic parameters, but unfortunately has some serious problems with methodology and data interpretation. To give some examples: 1) Grain yield was determined based on individual plant, instead of being determined by harvesting the plot. 2) Plant height (PH) and grain yield per plant (GYPP) presented a very low significant correlation, but in spite of this, it was concluded that PH is a good selection criterion for GYPP and that by selecting taller plants grain yield should be increased. 3) Only broad sense heritability was determined, but it has been concluded that the high heritability for GYPP and PH indicated that the main type of gene action was additivity. To conclude this, narrow sense heritability should have been determined instead. It does not give proper interpretation to the data obtained as well as the data is mostly plant based, instead of plot based.	1)We determined grain yield per plant, because grain yield per plot is dependent on final number of plants per plot at harvest, which is subject to loss by insects or other factors. 2) The correlation coefficient between PH and GYPP was significant and medium in magnitude in three environment (≥ 0.44) 3) If both Heritability and GA are high in magnitude, the type of gene action is of additive (it is well known conclusion by plant breeders). Individual plant basis is more accurate than plot basis and is preferred by geneticists.
Minor REVISION comments		
Optional/General comments		