



SDI Review Form 1.6

PART 1:

Journal Name:	<u>American Journal of Experimental Agriculture</u>
Manuscript Number:	2013_AJEA_5517
Title of the Manuscript:	Induction of useful mutation in Mulberry (<i>Morus</i>) variety S ₅₄ by gamma irradiation in M ₁ generation
Type of the Article	Research Paper

General guideline for Peer Review process is available in this link:

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

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

	Reviewer's comment	Author's comments (if agreed with reviewer, corrects the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	Mulberry constitutes the only food for silkworm rearing and the varieties of mulberry which are potentially of higher yielding capacity with nutritive leaf quality are indispensable for overall development of the sericulture industry. One such variety viz., S⁵⁴ cultivated in southern India and used for chawki silkworm rearing also holds a promise and bringing improvement in this variety can go in long way for improving the condition of stake-holders through income augmentation. The present research findings are a step in this direction. The author/s of manuscript entitled, Induction of useful mutation in Mulberry (<i>Morus</i>) variety S54 by gamma irradiation in M1 generation has generated a very good and useful information about the mutagenic effect of Gamma rays on S⁵⁴ variety of mulberry. The increase in plant height and leaf protein content in mutants through irradiation in itself is a good finding and will throw open possibility of further research in this field with other genotypes of mulberry. However, it would be always desirable to raise more generations viz., M3 and M4 in order to observe the persistence of mutagenic changes and other effects as well as mutagenesis is generally accompanied with some undesirable changes as well.	Authors thank and welcome the Reviewer for critical comments



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Minor REVISION comments	Some minor typical mistakes can be corrected as indicated below: In line no. 8 please omit word which Line 18 plant height 147.86 cm² please see the unit. What is cm² Line 30 replace word exhibit with exhibits and omit word is appearing after plant in the same line. Line 3 replace word encountered with studied Line 77 replace word experiment with experimental Line 114, reverse the range and write it from lower to higher value. The author may please check the figures given in table 1 under sprouting, rooting and survival percentages where there is a lot of variation between lower and higher values. In spite of this huge variation the data has been shown to be non-significant.	All the said minor revision comments/ corrections are incorporated in the manuscript. It is a typographical error and we have taken care to statistically compare the data once again and necessary corrections have been incorporated in Table-1.
Optional/General comments	The research paper can be considered for publication after corrections are incorporated.	