



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2013_AJEA_7290
Title of the Manuscript:	The effect of bud splitting on suppression of apical dominance and inducing multiple buds development in banana shoot tip cultures
Type of the 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>)



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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	Major remark; My opinions is that the number of explants used for this experiment (30) is too low to support a publication. More repetitions with other media (especially other BAP concentrations) and other cultivars should be executed and reported The influence of the high BAP concentration (5 mg/l) in the medium is not well discussed. Is Yangambi a well proliferating CV compared with others? To which group does it belong? "Some reports on the role of apical dominance in shoot production from explants of banana are conflicting" Where is the conflict? Apical dominance and / or axillary bud formation is depending on • CV • PGRs in the media • Size of explant • Splitting • Dark/light regime Discuss adventitious vs axillary shoot formation.	This study was focused on one cultivar (Yangambi) only. The concentration of BAP was kept constant in order to assess the main effect which was bud splitting. Yangambi is moderately proliferating CV compared to others. It belongs to ABB group. One report (Ma and Shii 1970) reported that the removal of apical domes (shoot apices) was responsible for multiple shoots development; another report (Abdullah et. al) said multiple initials were produced in CV robusta in the presence of apical domes. Yes it depends on all these factors; the important thing in our research was that, the size of the explants was maintained constant as well as PGRs. We followed a normal Dark/light regime as explained in the procedures. Adventitious buds originate from the bottom of the explants while axillary shoot



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		formation occurs at the branches of the plants.
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		