



SDI Review Form 1.6

Journal Name:	American Journal of Experimental Agriculture
Manuscript Number:	2014_AJEA_13398
Title of the Manuscript:	Exogenous cytokinin promote <i>Epipremun aureum</i> L. growth through enhanced dry weight assimilation rather than through changes in partitioning
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>)



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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	The manuscript represents a physiological study on the effect of exogenous cytokinin (benzylaminopurine BAP) on growth and photosynthesis-related parameters in shade-growing ornamental plant <i>Epipremnum aureum</i>. Growth-related (relative growth rate RGR, leaf area ratio LAR) and photosynthesis-related characteristics (net assimilation rate NAR) have been compared in BAP-treated and control plants. There was found a significant effect of BAP on a decrease in LAR and an increase in NAR in BAP-treated <i>Epipremnum</i> plants. The manuscript is comprehensively written and all data are adequately documented.	
Minor REVISION comments	I have only an important comment on the growth parameters evaluated in the manuscript. The abbreviations LAR, NAR, RGR used in the manuscript have to be explained directly in Abstract when they are used for the first time. In Materials and methods, part 2.2 Growth evaluations, the calculations of NAR, LAP? should be described more clearly with an explanation of the individual parameters - what does the parameter LAP mean? Important: Spelling mistake in plant name directly in the manuscript title - the plant name should be <i>Epipremnum aureum</i> The verb form in the title should also be changed - Exogenous cytokinin promotes <i>Epipremnum aureum</i> L. growth through enhanced dry weight assimilation rather than through changes in partitioning Abstract: In abstract, the abbreviations LAR, NAR, RGR for the terms evaluated in the manuscript have to be explained. The same should also be provided in Introduction at the first occurrence of the terms.	



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	Minor (formal) comments: Line 54: Verb form should be in a singular form - "One important parameter that accounts for this effect...." Line 66: Insert an indefinite article "a" before the words "part of promotive effects", i.e., "a part of promotive effects..." Line 79: Insert an indefinite article "a" before the words "number of BAP applications", i.e., "a number of BAP applications" Line 116: Replace "to" by "of" in the sentence "...at the beginning of the experiments..." Line 143: Insert a comma following the words "For root-shoot allometry,..." Line 148: The sentence "Leaf disks...." is too complicated - it should be simplified or split into two shorter ones, e.g., "Leaf disks were cut from the central area near the mid-vein of each leaf and placed in vials containing 3 cm³ of N,N-dimethylformamide. Leaf disks were vacuum infiltrated and stored for three days in complete darkness." Line 211: Insert "a" before the words "different number of 5 mg L⁻¹", i.e., "a different number of..." Line 213: Change the word form "significant differences" instead of "significantly differences" Line 225: Insert "a" before the words "different number of 5 mg L⁻¹", i.e., "a different number of..." Line 239: Insert "a" before the words "different number of 5 mg L⁻¹", i.e., "a different number of..." Line 279: Insert "a" before the words "decreasing light intensity, i.e., "a decreasing light intensity" Line 288: Change the word form "significant differences" instead of "significantly differences" Line 312: Insert the word "with" in the sentence "with respect to controls..." Line 335: Insert the word "with" in the sentence "with respect to controls..." Line 337: Insert "a" before the words "decreasing irradiance", i.e., "a decreasing irradiance" Line 339: Replace "of" by "in" in the sentence "...chlorophyll content in <i>E. aureum</i> leaves..." Lines 342 and 343: Change the word form "significant differences" instead of "significantly differences" Line 350: Replace "the" by "a" in the sentence "...to a decrease in specific leaf area..." Line 373: Insert "a" before the words "number of applications", i.e., "a number of applications"	
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	Line 402: Insert an indefinite article “an” before the words “increased concentration in plant tissues”, i.e., “an increased concentration in plant tissues” Line 410: The sentence starting with “Changes in SLA....” is too complicated and should be rephrased as follows: “Changes in SLA as a consequence of BAP treatment were relatively small,.....” Line 419: Modify the word “Firstly” to “First, values of the LAP coefficient,....” Line 425: Write only “apex” instead of “apical apex” Line 443: Insert “a” before the words “number of applications resulted in...”, i.e., “a number of applications resulted in a lower growth promotion....” Line 445: Insert “a” before the words “part of the BAP response.”, i.e., “a part of the BAP response.” Line 448: Insert “a” before the words “decreasing light intensity”, i.e., “a decreasing light intensity” Line 453: Insert “an” before the words “increased illumination”, i.e., “an increased illumination in untreated plants” Line 479: Replace “to” by “of” in the sentence “...which may help to increase productivity of this crop....”	
<u>Optional/General</u> comments	The manuscript provides valuable data on the effect of exogenous cytokinin benzylaminopurine (BAP) on growth- and photosynthesis-related parameters in shade ornamental plant <i>Epipremnum aureum</i>. I can recommend the manuscript for publication after a minor revision (suggestions given above).	

Reviewer Details:

Name:	Anonymous
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