



SDI Review Form 1.6

Journal Name:	<u>Journal of Advances in Medical and Pharmaceutical Sciences</u>
Manuscript Number:	Ms_JAMPS_31197
Title of the Manuscript:	Antioxidant, Antiproliferative Properties And Chemical Composition Of The Ethanolic Extract From Leaves And Stems Of Lebanese Anacyclus nigellifolius Boiss
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	Pg 1, Abstract, Objective The statement "to determine the content of the ethanolic extract from leaves and stems of fresh Lebanese <i>Anacyclus nigellifolius</i> Boiss in primary and secondary metabolites and to evaluate its antioxidant and anti-tumor activities on Human lung A549 adenocarcinoma cells" is not in full sentence format. Please revise.	Thank you for your valuable comments. In fact, the sentence has been selected by a specialist in the domain.
	Pg 1, Abstract, Objective The objective does not fully reflect the entire scope of the study. Please also include "the effect of low doses of chemotherapeutic agent the Cisplatin (CDDP) combined with <i>A. nigellifolius</i> on human lung adenocarcinoma A549 cell line".	The sentence is added now
	Materials It is essential for the authors to disclose the company, state and country of major chemicals and reagents used in this study.	Done
	2.1 Plant collection and preparation of powders i) It is essential for the authors to disclose the institution or expertise that/who was responsible for plant identification and validation. ii) It is essential for the authors to justify the basis of subjecting particularly leaves and stems of the plants to extraction.	i) The biological authentication was carried out by the Professor George Tohme, the president of the Lebanese C.N.R.S. ii) Leaves and stems are the first studied parts of this plant, another study is under realisation on the roots of this plant
	2.2 Preparations of crude extracts It is essential for the authors to justify the use of ethanol as the solvent of choice for extraction.	In our laboratory, a study has been done to determine the best solvent that should be used for the extraction and we found that ethanol is an important one.



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	2.5.1 DPPH radical scavenging activity It is essential for the authors to justify as to why DPPH radical scavenging activity was selected as the only antioxidant parameter.	DPPH is the most used test to evaluate the antioxidant power of a plant. It is well used in our laboratory
	2.5.2 Antiproliferative activity It is essential for the authors to as to why 24 h rather than the conventional 72 h was selected as the time point for screening of cytotoxicity.	A protocol was established
	2.6 Statistical analysis i) Please include company, state and country for PRISM. ii) Please include n number for mean $\pm$ S.E.M.	
	3.2 Active contents Please discuss on the implication of "Also, the studied plant contains a good percentage of lipids."	No study was done before on this plant so we don't know anything about.
	3.3 TPC and TFC It is essential for the authors to justify the basis of claiming "Ethanollic extract contained <u>high amounts</u> of TPC (86.7 mg/ml) and TFC (50.2 μ g/ml)."	
	3.5 Cell viability results It is essential for the authors to compare the results to other ethanolic extracts.	
	Pg 12 i) The whole discussion in this page should be expressed in just one paragraph ii) The authors had merely summarized the findings. There was hardly any discussion. iii) This section lacks references.	
	4. Conclusion	Done



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	The conclusion is too lengthy. Please summarize.	
	Please cite reference(s) for the following: i) Pg 1 “It was used in the treatment of neuralgic and rheumatic affection of the head, face and teeth” ii) Pg 7 “Saponin and terpenoids were used as anticancer, antioxidant, antimicrobial, anti-yeast, anti-inflammatory and antiviral compounds. Alkaloid and tannins were reported to exert important anticancer and antioxidant activities” iii) Pg 8 “When the quantities of phenol are high, the antioxidant activity of extract is high” iv) Pg 8-9 “Epidemiological studies have shown the role of these compounds in the defense against neurodegenerative diseases, cardiovascular and tumor, in addition to their antioxidant activity”	i) These information are known by traditional practitioners. II) Done III) Done
<u>Minor</u> REVISION comments	Pg 2, Introduction, Paragraph 1 Please remove the brackets for percentages mentioned in “...(80-85%) and SCLC [Smallcell lung cancer] represents (15-20%)...”	Done
	Pg 2, Introduction, Paragraph 1 The word “trained” in “Adenocarcinomas are trained of bronchial basal cells...” is inappropriate. Please revise.	Done
	2.5.2 Antiproliferative activity “10 ⁵ cellules / well” should be corrected as “10 ⁵ cells / well”	Done
<u>General</u> comments	Only 37% (7 out of 19) of the references are within the last five years. The majority of the cited references are out-dated. It is essential for the authors to increase the number of updated references.	