Reviewer’s report

Title: Assessment of cytotoxicity and genotoxicity of stem bark extracts from Canarium odontophyllum Miq. (dabai) against HCT 116 human colorectal cancer cell line

Version: 0 Date: 08 Dec 2015

Reviewer: Saw Bawm

Reviewer’s report:

The manuscript BCAM-D-15-00473, entitled 'Assessment of cytotoxicity and genotoxicity of stem bark extracts from Canarium odontophyllum Miq. (dabai) against human colorectal cancer cell line HCT116' is reporting cytotoxicity and genotoxicity of plant extract. The manuscript is well written and I have only a few comments.

Major comments

Introduction

1. Please include background information of research works regarding anti-cancer activity tests or any other test of Canarium odontophyllum.

2. Please include information about pure compounds (or secondary metabolites) of this plant if any

3. Please include objectives of this study in introduction

4. Please do not explain in detail about opoptosis, necrosis etc (line 56), you already explained in Discussion.

Materials and methods

1. Please include references for MTT assay, determination of cell death, alkaline comet assay etc. so as you can explain methods in briefly.

2. Please include preparation of dilution (2folds or 10 folds dilution) for plant extract dilution.

Results

1. You do not refer for Table 2 and Figure1 in the text.
Discussion

1. It is interesting to know selectivity index (SI) or toxicity index.

Minor comments;

In page 2, line 4
Please include ',' before respectively.

In page 3, line 31
Please replace '&' with and.

Page 5, line 44,
You can delete 'HCT116 and CCD-18co cell lines were used in this experiment.'

Page 10, line 2
Please include ',', before respectively.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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