Reviewer's report

Title: Extracts and compounds with anti-diabetic complications and anti-cancer activity from Castanea mollissima Blume (Chinese chestnut)

Version: 3 Date: 24 July 2014

Reviewer: Louis Pergaud SANDJO

Reviewer's report:

Extracts and compounds with anti-diabetic complications and anti-cancer activity from Castanea mollissima Blume (Chinese chestnut).

First page the plant species is in italics

Compound 6 is not a new compound. The same structure has been published in Natural products research 2012, 26 (7), 609-618

The entire paper requires to be written by a native English speaker since many sentences are not clear for instance.

On page 3
Line 46 Cl-B was found to show a significant inhibitory effect

Same paragraph E and p should both be in italics. Please check it in the entire text.

Line 41 Q-TOF is the right way to describe the mass spectrometry method. Authors should precise the ionization method for instance ESI, FAB, EI etc

Page 4 the conclusion in the abstract should be rewritten

Backgroung same page line 67 the species in italics

Line 69 ban li is not only used as a food product... please correct the sentence

On page 5 line 78 evaluated on not by

From line 83 to line 88 make the sentence simple and clear.

Line 131 page 7 space between 3.3 mg/mL

Line 140 there some strange characters in the formular. Please check

Page 8 line 146 to 148 all these sentence show written clearly.

Line 159 the reaction was terminated by adding 1M of sulfuric acid.

Page 9

Line 179 space between 6 kg and (CK) check the same mistake in same sentence.

Line 209 MeOH/H2O should be conforme in entire text. See also page 11 line 216 and 219

The structure description of compound 6 which was supposed to be a new compound is not relevant. This compound has been already published in 2012 by
Keng-Chong Wong et al. (Natural products research 2012, 26 (7), 609-618)
Page 12
Line 247 take “to inhibit much stronger activities than “ out I propose “to be significantly more active than others”
Line 255 structure of compounds…
Physicochemical data of compound 2-9
Compound 6
The HRESI values including measured and calculated are different from those reported in the text page 11 line 228 and 229
Figure 1 has been provided two times in the paper.