



SDI Review Form 1.6

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	Ms_IJBCRR_24604
Title of the Manuscript:	Invitro Inhibitory Effect of Methanol Leaf Extract of Cadaba Farinosa on Carbonic Anhydrase Activity
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.

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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 language needs a deep revision by a native speaker (see below) Bibliographic references must be updated assuggested	
Minor REVISION comments	please change “invitro” and “in-vitro” to “in vitro” (italic) Abstract.methodology: please change to “<i>Cadaba farinosa</i> leaves were extracted using soxhlet apparatus by <i>n</i>-Hexane, followed by Ethyl acetate and then Methanol. The extracts were tested against <i>in vitro</i> carbonic anhydrase activity. The most active extract was further purified to determine in vitro the most active fraction against carbonic anhydrase activity. The purified fractions of Methanol extracts were subjected to FTIR and GC-MS analysis to determine the functional compounds responsible of such biological activity. Ref 1 and 2: please add “Eriocitrin and apigenin as new carbonic anhydrase VA inhibitors, from a virtual screening of Calabrian natural products. M. C. Gidaro, F. Alcaro, S. Carradori, G. Costa, D. Vullo, C. T. Supuran, S. Alcaro. <i>Planta Medica</i>, 2015, <i>81</i>, 533-540.” ref 3 is cited after ref 4 (line 36) line 45: please change to “carbonic anhydrase isoforms” ref 14 could be updated with “Nitric oxide donors and selective carbonic anhydrase inhibitors: a dual pharmacological approach for the treatment of glaucoma, cancer and osteoporosis. S. Carradori, A. Mollica, C. De Monte, A. Granese, C. T. Supuran. <i>Molecules</i>, 2015, <i>20</i>, 5667-5679.” lines 56-57: please change to “inflammation and diabetes” please italicize “<i>Cadaba farinosa</i>” in general in the text Experimental: line 63: please delete “for the inhibitor and activator,” line 65: why do the authors not consider a wider range (4000-400 cm⁻¹)? Plant material: line 72: please specify the drying time, the amount/type of the washing solvent and the obtained granulometry	The enzyme is carbonic anhydrase from bovine erythrocyte Sigma Aldrich (England). Its total carbonic anhydrase. I have seen and corrected all the corrections you pointed out.



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	Extraction and purification: at line 77 please correct “reduce” CA assay: line 86: please correct “fractions (15µg/100 µL in DMSO) was added” What isoform of CA has been considered? Please specify among the 15 human isoforms of carbonic anhydrase. Which is the supplier? Results: Figures 1 and 2: I suggest changing “enzyme” to “control” Figures 1a and 1b legend: please correct “Crude extract” line 97: please correct “the three crude extract of <i>cadaba farinosa</i>” line 123: please correct “fraction B, C and D” lines 125-126: please delete the last sentence because it is redundant line 160 and Table1b: please change to “ester” paragraph 3.4: please correct the chemical names of “D-Ribonitrile, 2,3,4,5-tetraacetate” and “Phenol, 4-methyl-3-(2-methylhydrazino)-“ (text and Table 2a) Discussion: please delete “being” at line 211 at line 213 please correct “catechol-<i>O</i>-methyltransferase. And numerous” ref 28 could be updated with “DPP-4 inhibitors: a patent review (2012-2014). R. Costante, A. Stefanucci, S. Carradori, E. Novellino, A. Mollica. <i>Expert Opin. Ther. Pat.</i>, 2015, 25, 209-236.”	
<u>Optional/General</u> comments		Thank you so much for all the observations