



**SDI Review Form 1.6**

Journal Name:	<a href="#">European Journal of Medicinal Plants</a>
Manuscript Number:	<b>Ms_EJMP_26453</b>
Title of the Manuscript:	<b>Natural Products Screening for the Identification of Selective Monoamine Oxidase-B Inhibitors</b>
Type of the Article	<b>Original Research Article</b>

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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)
<b>Compulsory</b> REVISION comments	<b>The manuscript needs an exhaustive revision for English language: there are many typos and misspelled sentences (e.g.: lines 12, 25-26, 30, 64, 85, 94, 102, 252, 272, 320, 364)</b>	<p>The following lines have been fixed:</p> <p><b>Line 12:</b> MOA-B to "MAO-B"</p> <p><b>Line 25-26,</b> were rephrased to" The top four extracts hMAO-BIs were equally potent"</p> <p><b>Line 30</b> corrected to "have potent and selective inhibitions for MAO-B"</p> <p><b>Line 64</b> the sentence was divided to two as follows "In Parkinson's disease (PD) and depression, monoamine oxidase-A and B inhibitors (MAO-AIs and MAO-BIs) are currently used as effective drugs. MAO-A and MAO-B are two isozymes that belong to the Flavin-containing amine oxidases. They can be found in astrocytes and the substantia nigra pars compacta (SNpc) neurons to metabolize monoamine neurotransmitters."</p> <p><b>Line 85</b> rephrased to "Also, MAO-BIs exerted"</p> <p><b>Line 94</b> rephrased to "are synthetic compounds (such as DEP and rasagiline) that share common structure propargyl, the</p>



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		<p>responsible group for MAO inhibition”</p> <p><b>Line 102</b> word and punctuation added “properties, beneficial to neurodegenerative diseases such as PD.”</p> <p><b>Line 252</b> was rephrased to “That led to excluding 30 extracts from the screen.”</p> <p><b>Line 272</b> was rephrased to “The screen results indicated that plants have the potential to have a collectively selective hMAO-A and hMAO-B inhibiting activities”</p> <p><b>Line 320</b> words added to the sentence “The used ethanol had no effects on the assay”</p> <p><b>Line 364</b> words removed and others added to make the sentences as follows “The screen designated the abundance of selective MAO-A and MAO-B inhibitors in nature. While it is less relevant for PD, and thus beyond the scope of this work to investigate hMAO-A inhibitors...”</p>
<b>Minor</b> REVISION comments	<p>a) Low quality of figures, particularly Fig. 2: please modify with acceptable resolution.</p> <p>b) In Figure 3 and Tables 1-2, data are not intuitive. It is suggested to modify their captions, sentencing that values reported are % of residual activity of enzymes.</p>	<p>a) To enhance the quality of figures we have modified <b>Fig 2, 3, and 5</b> (modified figures were highlighted in yellow).</p> <p>b) The caption in <b>Figure 3</b> (image modified) was modified as follows “<b>Fig. 3. Plant</b> High Throughput Screening <b>to determine the top</b> relative inhibitors of recombinant human monoamine</p>



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		<p>oxidase-B (<i>h</i>MAO-B) (<math>RI_B</math>): (A) 132 ethanolic plant extracts of 1 mg/mL were tested for both <i>h</i>MAO-A and <i>h</i>MAO-B inhibitory effects (B) The top effective six extracts inhibited &gt; 85% of <i>h</i>MAO-B activity. (C) The top six extracts with the highest <math>RI_B</math> of &gt;1.8-fold. The most effective inhibitors with the highest <math>RI_B</math> in this screen were <i>Glycyrrhiza uralensis</i> (GUR), <i>Psoralea corylifolia</i> seeds (PCS) <i>Phellodendron amurense</i> barks (PAB), and <i>Ferula assafoetida</i> resin (FAR). Data points compared to standard deprenyl (DEP) were expressed as mean <math>\pm</math> SEM, with <math>n=2</math>. <math>RI_B = \%hMAO-A/\%hMAO-B</math>."</p> <p>In <b>Tables 1</b>, and <b>Table 2</b> captions were modified and the following sentence was added "Values reported are % of residual activity of <i>h</i>MAO-A and <i>h</i>MAO-B isozymes."</p>
<b>Optional/General</b> comments		