Dear reviewers,

Please accept my gratitude for taking time to review this manuscript. Responses to your valuable comments are listed below.

Reviewer E

Page 3. Line 55. Eastern world, Eastern countries, not only East. CORRECTED

Page 5. Line 95. You already wrote dry extract is d.e., so you could use it. CORRECTED

Page 5. Line 99. Which HPLC instrument was used? Agilent, Waters, Shimadzu? CORRECTED

Page 5. Line 115. DPPH•, OH• and NO• radicals, please change to DPPH,

OH and NO radicals, or DPPH•, OH• and NO• CORRECTED

Page 6. Line 138. dry extract (d. e.) is already explained shortcut CORRECTED

Page 10. Line 212. There is already shortcut for Alzheimers disease (AD).

Why not using it? CORRECTED

Page 10. Line 224. There is already shortcut for Alzheimers disease (AD).

Why not using it? CORRECTED

Page 11. Line 247. selected flavonoids. Which ones? CORRECTED

Reviewer F

1. Line 21. In vitro – write italic CORRECTED
2. Line 35. Knotweed – correct knotweed CORRECTED
3. Line 62 and in whole text – The term phenolic acids is much more used than the term phenolcarboxylic acids CORRECTED
4. Line 86. d. e. abbreviation should be explained in the first place where was mentioned in text CORRECTED
5. Line 118. Acontrol and Asample should be explained in text CORRECTED
6. Table III. The results of antioxidant activities should be compared with antioxidant activities of some well-known antioxidant (synthetic or natural) examined in the same experimental conditions as extracts. Also, according to my experience (experimental and in literature), extracts with such a content of phenolic compounds, do not show such a low IC50 values in DPPH method. I suggest that authors check experimental method and compared your results with literature data.

ANSWER: Propyl-gallate was used as a positive control. The final concentration of DPPH radical in the reaction mixture was 22.5mM. Double-checked, everything is in order with the results.

1. Text from page 9. should be separated in section Discussion CORRECTED
2. Please, the authors should use the abbreviations in all text and tables. The abbreviations should be explained only in one place in text. CORRECTED
3. Line 225. “Similar results” – replace with “Similar activities” CORRECTED
4. Lines 226-227. Namely, the leaves extract (RJ-3), which is found to be the richest source of selected phenolic compounds, possesses the highest antioxidant potential. – This is incorrect, according to Table I the richest source of total phenolic compounds was stem extract RJ-2

ANSWER: The text states “selected phenolic compounds” meaning the compounds quantified by HPLC (Table 2)

1. Line 229. “These findings indicate” – replace with “These findings confirm hypothesis …” CORRECTED
2. Authors should discuss their results of antioxidant activities in comparison with previous published results for this plant CORRECTED