Response to Reviewer 3 Comments

Dear Reviewer,

We thank you for your careful consideration of our manuscript and your constructive comments and suggestions for improving the material presented.

Also in accordance with your comments, we have expanded the Abstract, Keywords, Introduction, Materials, Methods, Results, Discussion and Conclusions part и in our manuscript.

Absolutely all individual comments have been taken into account and corrected in our new version of the manuscript, in particular

Ultrasound, germination and fermentation conditions applied in the research should be stated in the abstract.

The abstract reflects the conditions of ultrasonic exposure, germination and fermentation used in the study, lines 26-30

The type of statistical design used in this research should be mentioned in the abstract.

The abstract indicates the type of statistical plan used in this study, lines 36-37

You ought to change the keywords because they are repeated in the title.

Changed keywords: grain crops, flavonoids, complex starter, nutritional enhancement, whole grains

Line 56-58: please include the treatments and response factors applied in the study.

The goal is specified: The aim of this study was to study the combination of the processes of germination with ultrasound treatment and fermentation of complex starter cereal crops on the anti-oxidant activity and GABA content of the obtained raw ingredients with the possibility of using them in the matrix of food products.

Line 45-47: Does ultrasound directly lead to such events or indirectly? Please be very knowledgeable in this regard.

Describes the effects of ultrasonic exposure, lines 63-77

Line 48-51: please explain more about γ-aminobutyric acid background.

Entered information on the action of γ-aminobutyric acid, lines 78-95

Please write materials as Company Name (City, Country), especially for chemical analysis assessment which used in the study.

Corrected

Line 114-115: the average particle size of food ingredients? This sentence is very vague…. Please express by detail.

Corrected, lines 183-189

Please express "Assimilability criterion" in materials and methods section.

Corrected, lines 238-252

The way of expressing the method of measuring macronutrients and other parameters has a scientific flaw. Please take help from the following article for the correct way of expressing it, so that the standard number of the working method should be clearly stated (https://doi.org/10.1590/fst.60820).

Corrected, lines 190-204

Line 160-166: please say how did you calculate ratio the digestibility criterion? Please include the formula.

Corrected, lines 250-252

Line 167- 171: please cite and use the above citation for better explain the statistical analysis.

Corrected, lines 253-259

Please include the milling conditions and criteria of wheat grain geminated and consequently fermentation.

Corrected, lines 122-125, 176-182

Fig 1: would you please include the expressions include: d10, d50, d90 D3,4 and D3,2 which they are the important factors in particle size distribution.

Table 1 was added with data of d10, d50, d90 samples of received food ingredients, lines 298-309

All Tables and figures ought to statistical analysed: The alphabetical statistical letters for the means should all be modified such that the greatest number has the letter a and as the numbers go lower, letters b, c etc.

Corrected

Discussion text must grammar improve and in some cases it is very weak and maybe there is no discussion at all.

Corrected

Conclusion is very general, try to make it more scientific, comprehensive and concise in detail, especially.

The conclusion is detailed, an analysis of the data obtained is presented, conclusions are drawn, lines 433-458

References: It is OK.

The article has many flaws in express and concept of English, it is suggested to be revised in a scientific and native way.

The manuscript material has been thoroughly revised, improved, and further proofread (we attach the appropriate report)