Dear Editor,

At first, I would like to thank you for choosing me as a referee of your distinguished journal, concerning the manuscript entitled ‘Tartrazine induces structural and functional aberrations and genotoxic effects in-vivo.

This paper investigated the toxic potential of a synthetic food colorant Tartrazine in animal test system. The topic of research is interesting and nicely designed, however there are several typographical, spacing and language problems throughout the manuscript. Some of the sentences are meaningless which need rephrasing. Hence this manuscript is not acceptable in its present form, needs major revision.

General comments

- Authors should be updated the references because a lot of reference was belongs to previous years.
- Authors should add CAS Number of the tartrazine in the methodology section.
- There are many previous reports pertaining the toxicity of tartrazine in animal system then what is the novelty of the present work?
- In your study animals were orally given tartrazine 7.5mg/kg b.wt. (dissolved in 1 ml of distilled water) daily for 30 days. Is all animals alive till the 30th day? is any other health problems observed in the mice during this period when compared to the control group? Out of the 10 mice studied how much are subjected to further biochemical, histological and genotoxic studies?
- Spacing problem in heading – ‘Tartrazineinduces’ give space between the words ‘tartrazine’ and ‘induces’
- Heading: Check the hyphen between in-vivo is it needed
- Line spacing problem throughout the manuscript, correct it and make it uniform as per the journals guidance
- Abstract ‘adverseffect’ give space between
- Abstract ‘decreasedlevel’ give space between
- Abstract: restructure the sentence ‘Our results showed……….. compared to controls’
- Abstract: tartrazinewas, give space between
- Abstract: withseverehistopathological, give space betweenk ; check the word severe/several
- Abstract: change the sentence as - Taken together, the results showed that tartrazine intake may leads to an adverse health effects.
- Keywords: Change genotoxic with genotoxicity
Use either color or colour, keep uniformity in language used

Introduction: line 1 colour , remove space between colour & ,

Introduction: line 2 colorantfor  add space between

Rewrite the sentence, A partial list…….. and chewing gums.

Introduction line 4 remove ‘also’

(Amin et al.,2010) add space after ,

Intro line 7 ‘alow’ add space between

Intro 1st para last line cooking(Mhediet al., 2009). Give space between cooking and refer cited, and also between Mehedi and et

Intro second para 1st and 6th para spacing problem

Restructure the 3r paragraph

Intro final para several spacing problems please rectify, change ‘effect of this food coloring on’ as effect of this food colorant on

Materi & meth : Line 3 spacing problem

Materi & meth: They received a standard… change to Animals were fed with a standard…

Biochemical analysis: ‘processed for determination into clean and dry tubes’ sentence not clear rephrase it

Check the citation pattern of the journal and make it uniform

Please check the indentation of paragraph in journal’s instruction, if needed provide

Biochemi analy: last para Cortas&Wakid add space between

Isolation of leucocytes for comet assay: ‘Aliquots of 250 µl in 1.5 ml microcentrifuge tubes were frozen by placing in a -80°C freezer until comet assay could be completed’ sentence not clear

Statistical analysis: spacing problem ‘student’s t-test.Statistical’ and ‘mean± SD’

Results: ‘plasma uric acid urea’ add comma

Light and electron microscopic results: correct spacing problems throughout paragraphs, to controls; nuclei(Fig.1c).Moreover; abbarationsin;

There is several spacing problems are there between lines and words please read carefully and rectify all. It is found difficult to mention each and every spacing problem

Light and electron microscopic results:3rd paragraph remove ‘Moreover, obvious’

Spacing problems in figure legends
• **Fig. (2):** (a-c) LM & EM abbreviations should be mentioned in the first use, in figure 1 mentioned as ‘Light micrographs’ keep uniformity throughout the manuscript

• **Fig. (2):** legend Malpighian, M should be lower case letter

• **Genotoxicity results** ‘Using the comet assay, the present results show that…’ Sentence should be change as ‘Comet assay resulted that tartrazine……

• Sentence too long, change as ‘This genotoxic effect was observed as a significant increase ($p< 0.05$) in the percentage of DNA in the comet tail of the nuclei of leucocytes compared to controls.

• Check the journal format to write ‘figure’ in the legend and citation in the text, in the first two figure legends, it was used as *Fig.(1): & Fig. (2):* but in the 3rd figure legend it was used as *Figure 3.* Keep uniformity

• Figure 3 legend, change the sentence as ‘(B) Graph showing the tail DNA damage percentage in leucocyte nuclei of control and tartrazine-treated animals after comet assay.

• Discussion 1 spelling correction ‘admiistraiton’

• Rectify the spacing problem throughout discussion

• Discussion 2nd para, 3rd line change the sentence as ‘Damages in the filtering compartments of kidney results elevated levels of creatinine and urea in the blood.

• Discussion 2nd para, change the sentence as ‘The results of the present study showed that elevated levels of creatinine, urea and uric acid in the serum of tartrazine-treated group when compared to control.

• Discussion 2nd para line 8 remove bracket, ‘benzoate’)

• Discussion 3rd para remove the sentence ‘adropof the antioxidant mechanisms, or both’

• Discussion 2nd para line 11, change as ‘intestinal micro flora’

• Discussion para 5 sentence should be changed as ‘Light microscopic figures showed tartrazine-induced necrosis of most hepatocytes, congestion of blood sinusoids, infiltration of white blood cell, activated Kupffer cells, damaged glomerular and renal tubule membranes.

• Discussion para 6 remove comma ‘reticuli (rER),’

• Discussion para 6 sentence changed as ‘The presence of pyknotic nuclei, necrosis of hepatocytes and tubular cells in the current work clearly indicates toxicosis as previously described by Deveci et al. (2011) and Sarkar and Ghosh (2012).

• Discussion para 6, sentence change as ‘Reyes et al. (1996) found that synthetic food coloring agents such as tartrazine, inhibited mitochondrial respiration in liver and kidney of rats. It also affected the integrity of mitochondrial membranes, which is critical for maintaining vital mitochondrial functions and determination of apoptosis in cells.'
• Change as ‘Our electron microscopic results showed a clear’
• Sentence should be changed as ‘Hassan et al. (2010) also revealed that
  adminstration of a daily dose of tartrazine (7.5 and 15 mg/kg b.wt.) for 7 weeks
  leads to liver and kidney DNA damage.
• References, correct the spacing problems throughout, and are not in a uniform
  format. Check the journals format for references and correct it.

Experimental design
The experimental design was found to be good

Validity of findings
The tables and figures were checked with raw data and found to be valid