Reviewer’s report

Title: Colchicine causes prenatal cell toxicity and increases tetraploid risk

Version: 0 Date: 25 Aug 2019

Reviewer: Marcelo Arbo

Reviewer's report:

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The aim of this study was to evaluate the toxic effects of colchicine on the placenta and foetus. The study is very interesting and meaningful, however some points must be improved in order to be published.

Background, line 7, add botanical family and author scientific binomium of Colchicum autumnale

Methods: describe how colchicine solution was prepared, what were the concentrations tested and how long time the cells were incubated with colchicine. Did the authors use positive controls? How was the negative control prepared?

Data should be analyzed by ANOVA because authors present a control group and different concentrations of colchicine, or different time points.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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