Author's response to reviews

Title: Mechanisms of ring chromosome formation, ring instability and clinical consequences.

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Author's response to reviews: see over
Subject: Revised Manuscript: Mechanisms of ring chromosome formation, ring instability and clinical consequences

November 4, 2011

Dear Sirs

Thank you for considering our MS “Mechanisms of ring chromosome formation, ring instability and clinical consequences” for publication

Enclosed please find the Revised Version of the manuscript taking into consideration the comments and suggestions received.

Based on the reviewer’s comments, we changed the following points:

- We included a description of clinical features clinical data and pictures of the patients.
- We have included the annotation providing information regarding the sequence (GRCh36/hg18) that was missing.
- We substituted centromeric for pericentromeric probes in Materials and Methods and in the Figure 3.
- We included additional information concerning the cytogenetic study of the ring instability in a separate table.
- We improved the quality of Figure 2 (now 3) and its corresponding text.
- We corrected the annotation in Figure 3 substituting r(3) for r(13).
- The manuscript was revised by a native English speaking professional.

Although we agree it would be interesting to discuss details of the chromosomal architecture related to the origin in each of the ring chromosomes, we opted not to include these data we are going to perform additional studies based in this issue.

Hoping that now our paper meets all the requirements for publication and thanking you for all your attention.

Sincerely yours,

Roberta S Guilherme