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Dear Associate Editor Fay-Wei Li,

Thank you very much for your e-mail (January, 16th, 2019) about the revision of the manuscript number MPE\_2018\_645 formerly entitled **“Inferring hypothesis-based transitions in clade-specific models of chromosome number evolution along phylogenies”**.

We have reviewed the manuscript as suggested, considering all comments by the reviewers. Revisions and suggestions were indeed helpful and have contributed to improve the quality of the manuscript. Please find below the responses (red font) to the main points made by both reviewers. Also, find highlighted (track changes option enabled) some modifications in the manuscript based on the reviewers’ comments.

We hope you will consider this new and improved version of the manuscript acceptable for publication in Molecular Phylogenetics and Evolution.

Thank you very much in advance

Sincerely yours,

José Ignacio Márquez-Corro, Santiago Martín-Bravo, Daniel Spalink,Modesto LuceñoandMarcial Escudero