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## AUTHOR CONTRIBUTION FORM

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*Please describe the contributions of each author, indicating who was responsible for each part of the study and the preparation of the manuscript (collection of data, experiments, data analysis, generation of figures, interpretation of data, preparation of the text, etc.):*

GF and GD equally contributed to the study, designing the experimental plan and carrying out most of the assays (Molecular Biology and FISH analyses, respectively). GF and GD wrote the manuscript and set up all the figures. VC extensively worked to the molecular analyses and contributed to figure set up. LI performed FISH analyses in collaboration with GD. MS, IC and GDB performed the RNA-Seq analysis. II recruited patients and contributed to the laboratory work. MG worked specifically on the CNV arrays analyses. AL was responsible for the cytogenetics standard analysis to select patients. PB, GM, GB and AB provided patients' samples. AB, CTS and GC contributed to the scientific discussion of the project.

CTS and GC shared the senior authorship of this study. CTS and GC as principal investigators coordinated the study, with scientific supervision and contributed to the revision of the manuscript.