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## author contribution form

Title	Hypodiploid multiple myeloma is characterized by more aggressive markers than non-hyperdiploid multiple myeloma
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Specific contributions of each author are listed on page 2 of this document.

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## Author contributions (maximum 1 page):

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, collection of images, interpretation of data, preparation of the text, etc.)

Scott Van Wier was responsible for the conception and design, performed the experiments, analyzed the data, prepared the tables and figures, drafted the article and gave final approval. Esteban Braggio was responsible for the conception and design, performed the experiments, analyzed the data, prepared the tables and figures, drafted the article and gave final approval. Angela Baker was responsible for the collection of data, performed the experiments, revised the article and gave final approval. Gregory Ahmann was responsible for the collection of data, revised the article and gave final approval. Joan Levy was responsible for the acquisition of data, revised the article and gave final approval. John Carpten was responsible for the analysis of data, revised the article and gave final approval. Rafael Fonseca was responsible for the conception and design, analysis and interpretation of the data, revising the article and gave final approval.

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