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Information about the contributions of each person named as having participated in the study

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2) Authors who participated in the **conception of the study**: Francesco Lo-Coco and Emanuele Ammatuna

3) Design & Methods. The following authors were responsible for specific investigations:

• Francesco Lo-Coco and Emanuele Ammatuna were responsible for designing of the study.

• Paola Panetta has performed cytogenetic analysis.

• Xabier Agirreand and Maria José Calasanz have assisted and supervised cytogenetic and methylation studies.

• Tiziana Ottone and Serena Lavorgna have performed NPM1 mutation and data analysis.

• Francesco Lo-Coco was responsible in conception and design of the study and supervision of the whole work.

4) **Results**. The following authors were responsible for specific portions of the results, including figures and tables:

• Francesco Lo-Coco and Emanuele Ammatuna were responsible for acquisition of data, compilation of the results and overall interpretation.

• Paola Panetta was responsible for analyzing the cytogenetic results and prepared figure 1 and table 1 for the paper.

• Xabier Agirreand and Maria José Calasanz were responsible for performing and analyzing the cytogenetic and methylation results.

• Maria José Calasanz was responsible for preparing the table 2 for the paper.

• Tiziana Ottone and Serena Lavorgna were responsible for performing and analyzing *NPM1* mutation and data results.

5) Writing the manuscript. The following authors were responsible for writing the manuscript:

• Emanuele Ammatuna, Paola Panetta, Xabier Agirre, Tiziana Ottone, Serena Lavorgna, Maria José Calasanz and Francesco Lo-Coco contributed to manuscript writing.

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