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

- 1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole:**
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According to the International Committee of Medical Journal Editors (ICMJE) (http://www.icmje.org/ethical_1author.html): “Authorship credit should be based on: 1) substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. Authors should meet conditions 1, 2, and 3 Acquisition of funding, collection of data, or general supervision of the research group alone does not constitute authorship”.

The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.

2) Authors who participated in the conception of the study: Alberto Orfao, Jesus F San Miguel, Roberto Pessoa-Magalhaes, Bruno Paiva

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

- Roberto J. Pessoa Magalhaes, María-Belén Vidriales, Bruno Paiva, Alberto Orfao and Jesus F. San Miguel were responsible for the design of the study and immunophenotypic panels
- Roberto J. Pessoa-Magalhaes and Bruno Paiva were responsible for performing immunophenotypic studies
- Roberto J. Pessoa-Magalhaes and Bruno Paiva, Quentin Lecrevisse, Carlos Fernandez Jimenez and Martin Perez Andres were responsible for analyzing the flow data
- Ramón Garcia-Sanz, Maria-Victoria Mateos, Norma Gutierrez, Juan F. Blanco, Jose Hernandez, de Las Heras N, Martinez J, Roig M, da Costa ES, Ocio E, Maiolino A, Nucci M, Delarubia J, Juan-Jose Lahuerta were responsible for patient identification and collection of samples

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

- Aberto Orfao, Jesus San Miguel, Roberto Pessoa-Magalhaes and Bruno Paiva were responsible for full results analysis. Roberto Pessoa-Magalhaes was responsible for all figures and tables

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

- Aberto Orfao, Jesus San Miguel, Roberto Pessoa-Magalhaes and Bruno Paiva were responsible for writing the manuscript

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