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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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2) Authors who participated in the conception of the study: Vittorio Rosti, Giovanni Barosi, Alessandra Balduini

3) Design & Methods.

The following authors were responsible for specific investigations:

- Stefania Badalucco, Christian Andrea Di Buduo and Isabella Pallotta were responsible for human cord blood-derived megakaryocytes differentiation and analysis of proplatelet formation at different conditions;
- Stefania Badalucco and Christian Andrea Di Buduo were responsible for peripheral blood-derived megakaryocytes differentiation and analysis of proplatelet formation at different conditions;
- Stefania Badalucco and Christian Andrea Di Buduo were responsible for western blot analysis;
- Rita Campanelli was responsible for the bioassay for measurement of TGF β 1 levels in the supernatants of megakaryocyte culture;
- Paolo Catarsi was responsible for retrotranscription and quantitative real-time polymerase chain reaction;
- Christian Andrea Di Buduo was responsible for sample preparation for flow cytometry analysis of megakaryocytes ploidy;
- Stefania Badalucco, Christian Andrea Di Buduo and Alessandra Balduini designed the experiments and analyzed the data;
- Vittorio Rosti, David L. Kaplan, Giovanni Barosi, and Margherita Massa analyzed the data.

Treated patients:

- Vittorio Rosti and Giovanni Barosi were responsible for patients recruitment to the Center for the Study of Myelofibrosis of the IRCCS Policlinico San Matteo Foundation, and for diagnosis of the disease.

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

- Stefania Badalucco, Christian Andrea Di Buduo, Rita Campanelli, Isabella Pallotta, and Paolo Catarsi were responsible for FIGURE 1;
- Stefania Badalucco, Christian Andrea Di Buduo, and Rita Campanelli were responsible for FIGURE 2;
- Stefania Badalucco and Christian Andrea Di Buduo were responsible for SUPPLEMENTAL FIGURE 1.

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

- Alessandra Balduini was responsible for writing the manuscript.

6) **Contributors Listed in Acknowledgments:**

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