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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**: Massimo Giuliani, Salem Chouaib and Azzarone Bruno

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

- Simone Negrini: Flow cytométrie, biological assays (MLR)
- Massimo Giuliani: Signal transduction, Cytochemistry
- Christine Bellanné-Chantelot was responsible for analyzing DNAs of PV subjects for *TET2* mutations.
- Deniz Durali: Quantitative RT-PCR, Confocal Microscopy

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

- Simone Negrini: Figure 1 panel A. Figure 2 panels A,B and C. figure 3 panel C.
- Massimo Giuliani: Figure 1 panel B and C; Figure 2 Panels A and (cell pictures) B Figure 3 panel C (cell picture).
- Deniz Durali: Figure 3, panels A and B.

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

- Simone Negrini: Design and Methods, Results, Legends and References
- Salem Chouaib: Discussion
- Bruno Azzarone: Summary, Results, Discussion

6) **Contributors Listed in Acknowledgments**

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