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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**: Damla Olcaydu, Elisa Rumi, Robert Kralovics, Mario Cazzola, Francesco Passamonti

3) **Design & Methods**. The following authors were responsible for specific investigations (please detail):

- Elisa Rumi and Damla Olcaydu were responsible for sequence analysis of the *TET2*, *MPL* and *CBL* genes.
- Damla Olcaydu, Ashot Harutyunyan and Roland Jäger were responsible for genotype analysis of *rs12343867* and *rs10974944*.
- Elisa Rumi, Francesco Passamonti and Mario Cazzola were responsible for clinical evaluation, data collection and investigation of familial history of MPN patients.
- Daniela Pietra was responsible for patient blood sample preparation, DNA isolation and assessment of JAK2-V617F mutation burden.
- Tiina Berg was responsible for SNP genotyping using Affymetrix GeneChip SNP 6.0 Mapping arrays.
- Cristiana Pascutto was responsible for statistical analysis of malignancies and Kaplan-Meier estimation of cancer-free survival in familial and sporadic MPN.
- Damla Olcaydu was responsible for statistical analysis of *rs12343867* and *rs10974944* genotype data.
- Ashot Harutyunyan was responsible for data analysis of Affymetrix GeneChip SNP 6.0 Mapping arrays and penetrance estimation calculations.
- Emma Hammond was responsible for sample collection and preparation, clinical data and cytogenetic data of the Australian MPN family.
- Robert Kralovics, Mario Cazzola, Francesco Passamonti, Elisa Rumi and Damla Olcaydu were responsible for conception and design of the study as well as revision and interpretation of obtained data.

4) **Results.** The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Damla Olcaydu, Ashot Harutyunyan, and Roland Jäger were responsible for Table 1.
- Elisa Rumi and Damla Olcaydu were responsible for Table 2.
- Damla Olcaydu, Emma Hammond, Tiina Berg, and Ashot Harutyunyan were responsible for Figure 1A. Damla Olcaydu, Ashot Harutyunyan, and Roland Jäger were responsible for Figure 1B.
- Elisa Rumi, Francesco Passamonti, Mario Cazzola, and Damla Olcaydu were responsible for Figure 2.
- Elisa Rumi, Cristiana Pascutto, Damla Olcaydu, Francesco Passamonti, and Mario Cazzola were responsible for Figures 3 and 4.
- Damla Olcaydu and Elisa Rumi were responsible for Supplementary Table 1.
- Elisa Rumi, Francesco Passamonti, and Mario Cazzola were responsible for Supplementary Table 2 and 3.
- Elisa Rumi, Cristiana Pascutto, Damla Olcaydu, Francesco Passamonti, and Mario Cazzola were responsible for Supplementary Figure 1.

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

- Damla Olcaydu, Elisa Rumi, Francesco Passamonti, Mario Cazzola and Robert Kralovics were responsible for writing of the manuscript.
- Ashot Harutyunyan, Cristiana Pascutto and Damla Olcaydu were responsible for writing the statistical analysis section of the manuscript.
- Daniela Pietra was responsible for writing the sample preparation and JAK2-V617F mutation analysis part of the methods section.
- Emma Hammond was responsible for writing the section concerning the Australian MPN pedigree.
- All authors contributed in revising the manuscript critically for important intellectual content and approved the final version to be published.

6) **Contributors Listed in Acknowledgments:** (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had assistance with the study design, data collection, data analysis, or manuscript preparation. If such assistance was available, the authors must disclose the identity of the individuals who provided this assistance and the entity that supported it. Financial and material support should also be acknowledged.)

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