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

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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.

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

- Boggio Elena performed ELISA assays, AICD and FICD and Real-Time
- Orilieri Elisabetta performed ELISA analyses
- Mesturini Riccardo performer cell purification
- Indelicato Manuela performed cDNA array
- Ramenghi Ugo and Maria Francesca Campagnoli diagnosed and characterized patients

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):

- Indelicato Manuela is responsible for Figure 1 showing TIMP-1 is hyper-expressed in PHAactivated lymphocytes from a DALD patient (Figure1)
- Boggio Elena and Orilieri Elisabetta are responsible for Figure 2 showing that ALPS and

DALD patients display increased TIMP-1 and OPN serum levels

- Boggio Elena is responsible for Figure 3 showing that rOPN induces TIMP-1 expression in vitro
- Boggio Elena and Mesturini Riccardo are responsible for Figure 4 showing that monocytes are the main cell type secreting TIMP-1 in response to rOPN
- Boggio Elena is responsible for data showing the rTIMP-1 inhibits AICD and FICD of T cells (Figure 5 and Figure 6)

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

- Chiocchetti Annalisa was responsible for the introduction, results and discussion sections.
- Boggio Elena were responsible for writing the abstract, design and methods and results
- Dianzani Umberto was responsible for writing the results, discussion and figure legends
- Mazzarino Maria Clorinda was responsible for the critical revision of the manuscript

6) Contributors Listed in Acknowledgments:

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