

Manuscript no. HAEMATOL/HAEMATOL/2011/048868 entitled “Tyrosine phosphorylation of WASP promotes calpain-mediated podosome disassembly”

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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:** Yolanda Calle.

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

- Yolanda Calle was responsible for the general design, supervision and coordination of the study.
- Adrian J. Thrasher and Gareth E. Jones participated in the supervision and discussion of the results.

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):

- Lee Macpherson was responsible for the western blot experiments shown in Figure 2 D, F, the immunostaining for the quantification for figure 1 L, figure 2 A, B.
- Yolanda Calle was responsible for image acquisition and analysis of live cells in Figure 1 and Figure 2 A, B, C, suplementario figure 1 and the supplementary videos
- Jessica Tome-Garcia was responsible for the western blot experiments in Figure 2 E.
- James Monypenny generated the WIP-mCherry lentiviral constructs.
- Giles O. Cory generated the eGFP-WASP lentiviral constructs.
- Michael P. Blundell maintained the WASP mutant animal colonies, performed animal experimentation and contributed to cell culture.

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

- Yolanda Calle was responsible for generating the main body of the article.
- Lee Macpherson contributed to the writing the materials and methods section.
- All the authors contributed to the discussion to generate the final version of the manuscript.

6) **Contributors Listed in Acknowledgments:** -