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

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**3) Design & Methods.** The following authors were responsible for specific investigations  
• Enrique Colado, Teresa Paíno, Patricia Maiso, Enrique M Ocio, Xi Chen, Jesus Martín Sánchez, Laura San Segundo, Mercedes Garayoa and Diego Fernández Lázaro were responsible for cell culture; cell proliferation; cell cycle and apoptosis analyses and western blotting and subcellular fractionation procedures.  
• Enrique Colado, Maria Belén Vidriales and Juan Flores-Montero were responsible for ex-vivo experiments on freshly isolated AML cells.  
• Enrique Colado, Teresa Paíno and Norma C. Gutierrez were responsible for microarray RNA analyses.  
• Enrique Colado, Teresa Paíno, Xi Chen and Stela Álvarez Fernández were responsible for Real Time qPCR.  
• Teresa Paíno, was responsible for Real Time Fluorescent microscopy.  
• Enrique Colado and Teresa Paíno were responsible for Statistics.

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

- Enrique Colado, Teresa Paíno, Patricia Maiso and Enrique M Ocio, were responsible for “Zalypsis displays potent antileukemic activity and potentiates conventional antileukemic agents” and figure 1A and 1B.
- Enrique Colado was responsible for “Zalypsis targets mature and immature blast cells” and figure 1 C and 1D and Table 1.
- Enrique Colado and Teresa Paíno were responsible for “Zalypsis induces apoptosis in AML cells”; “Zalypsis deregulates mitochondrial permeability in AML cells”; “Zalypsis induces cell death through caspase-dependent and caspase-independent pathways” and Figures 2 and 3.
- Enrique Colado, Teresa Paíno, Norma C Gutierrez, Carlos M. Galmarini, Pablo Avilés and Carmen Cuevas were responsible for “Zalypsis induces a profound gene deregulation”.
- Enrique Colado, Teresa Paíno, Norma C Gutierrez were responsible for Figure 4 and Table 2.
- Enrique Colado, Teresa Paíno and Stela Álvarez-Fernández were responsible for Supplemental Appendix.

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

- Enrique Colado, Teresa Paíno, Enrique M. Ocio, Atanasio Pandiella and Jesús San Miguel were responsible for the writing of the manuscript.
- Patricia Maiso, Xi Chen, Stela Álvarez-Fernández, Jesus Martín Sánchez, Laura San Segundo, Mercedes Garayoa , Juan Flores-Montero, Diego Fernández Lázaro, Carlos M. Galmarini, Pablo Avilés and Carmen Cuevas were responsible for reviewing and approving the manuscript.

6) **Contributors Listed in Acknowledgments:**

Lorena Gonzalez and Montserrat Martín provided technical assistance responsible for cell culture; cell proliferation; cell cycle and apoptosis analyses and western blotting procedures and were supported by the Centro de Investigación del Cáncer IBMCC/CSIC-Universidad de Salamanca.

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