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

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• Enrique Colado, Teresa Paíno, Patricia Maiso, Enrique M Ocio, Xi Chen, Jesús 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 Páino and Norma C. Gutierrez were responsible for microarray RNA analyses.  
• Enrique Colado, Teresa Páino, Xi Chen and Stela Álvarez Fernández were responsible for Real Time qPCR.  
• Teresa Páino, was responsible for Real Time Fluorescent microscopy.  
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4) Results. The following authors were responsible for specific portions of the results, including figures and tables:

- Enrique Colado, Teresa Páino, Patricia Maiso and Enrique M Ocío, 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 1C and 1D and Table 1.
- Enrique Colado and Teresa Páino 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 Páino, Norma C Gutierrez, Carlos M. Galmarini, Pablo Avilés and Carmen Cueva were responsible for “Zalypsis induces a profound gene deregulation”.
- Enrique Colado, Teresa Páino, Norma C Gutierrez were responsible for Figure 4 and Table 2.
- Enrique Colado, Teresa Páino and Stela Álvarez-Fernández were responsible for Supplemental Appendix.

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

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