Manuscript no. HAEMATOL/2012/069369 entitled “Clinical implications of the molecular genetics of chronic lymphocytic leukemia“

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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: Robin Foà, Gianluca Gaidano, Anna Guarini designed and critically revised the manuscript

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

   • Ilaria Del Giudice reviewed the literature, being specifically responsible for the following parts of the review: Genetic heterogeneity of CLL; Molecular characteristics of clinically relevant genetic lesions of CLL (regarding TP53 and ATM); Clinical relevance of TP53 abnormalities in CLL; Clinical relevance of ATM abnormalities in CLL; Molecular genetics as a guide for choosing therapy.
   • Davide Rossi reviewed the literature, being specifically responsible for the following parts of the review: Molecular lesions at different clinical phases of CLL; Clonal evolution of CLL; Clinical relevance of novel molecular lesions.
   • Anna Guarini gave a substantial contribution to TP53 and ATM related topics.

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

   • Ilaria Del Giudice reviewed the literature, being specifically responsible for the following parts of the review: Genetic heterogeneity of CLL; Molecular characteristics of clinically relevant genetic lesions of CLL (regarding TP53 and ATM); Clinical relevance of TP53 abnormalities in CLL; Clinical relevance of ATM abnormalities in CLL; Molecular genetics as a guide for choosing therapy.
   • Davide Rossi reviewed the literature, being specifically responsible for the following parts of the review: Molecular lesions at different clinical phases of CLL; Clonal evolution of
CLL; Clinical relevance of novel molecular lesions. He is also responsible for Table 1 and Figure 1 and 2

5) Writing the manuscript. The following authors were responsible for writing the manuscript:
Ilaria Del Giudice and Davide Rossi wrote the manuscript

6) Contributors Listed in Acknowledgments:
The work by the authors described in this review was supported by AIRC Special Program Molecular Clinical Oncology, 5 x 1000, No. 10007, Milan, Italy (to R.F. and to G.G.); Compagnia di San Paolo, Torino, Italy (R.F.); Progetto FIRB-Programma “Futuro in Ricerca” 2008 (to D.R.); PRIN 2008 (to G.G.) and 2009 (to D.R.), MIUR, Rome, Italy; Progetto Giovani Ricercatori 2008 (to D.R.), Ministero della Salute, Rome, Italy; and Novara-AIL Onlus, Novara (to G.G.), Italy