## Haematologica HAEMATOL/2019/217430 Version 3

HIF-1 $\alpha$  is overexpressed in leukemic cells from TP53-disrupted patients and is a promising therapeutic target in chronic lymphocytic leukemia

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Disclosures: F.R.M. received personal fees from Abbvie, Gilead and Janssen, outside the submitted work. R.F. reports personal fees from Roche, Genentech, Janssen, Gilead, Abbvie, Celgene, Novartis, Ariad and Amgen, outside the submitted work. M.Massaia. received research funding from Novartis and Gilead, and personal fees from Janssen, Gilead and Abbvie, outside the submitted work. M.B. received personal fees from Sanofi, Celgene, Amgen, Janssen, Novartis, Abbvie and BMS, and research funding from Celgene, Janssen, Amgen, BMS, Mundipharma, Novartis and Sanofi, outside the submitted work. M.C. received research funding from Janssen, and personal fees from Janssen, Gilead and Abbvie, outside the submitted work. The remaining Authors declare no competing financial interests.

Contributions: V.Griggio and C.V. designed the research, performed the experiments, analyzed the data and wrote the paper. C.V., C.S. and M.C. provided patient samples and patient care. M.T., C.R., and J.K. assisted with the experiments and data analyses. M.DB., R.Bomben and V.Gattei performed GSEA, discussed results and contributed to data interpretation. D.M and R.Bernardi performed in vivo experiments and contributed to manuscript revision. P.O. performed FISH analysis. A.A.K. and L.B. performed TP53 mutation analysis. D.R. and G.G. discussed results and contributed to data interpretation. G.P., M. Marchetti, L.L., G.D.P., F.R.M. and R.F. provided study material and contributed to manuscript revision. T.Z. provided lymphoma cell lines, discussed results and contributed to manuscript revision. M.Massaia contributed to the research design. M.B. discussed results and contributed to manuscript revision. M.C. designed the research, supervised the study, wrote and revised the paper. All authors discussed the results and approved final manuscript.