

Haematologica
HAEMATOL/2018/188664
Version 4

ActivinA: a new leukemia-promoting factor conferring migratory advantage to B-cell precursor-acute lymphoblastic leukemic cells

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Disclosures: none

Contributions: F. Portale performed experiments, collected and analyzed the data and wrote the manuscript; G.C. and B.R. performed ELISA assays and qRT-PCR experiments; D.S. and M.G.V. supervised the statistical analyses; M.L. and P.U. performed and analyzed time-lapse microscopy experiments; S.B. and G.T. performed and analyzed gene expression profile experiments; F. Pagni critically revised the data; N.M. collaborated to the banking of BM plasma samples; S.G. collected patient samples and provided clinical data; F.L. supervised patient enrollment, verified patient data, provided clinical care to patients and critically revised the manuscript; C.R. supervised patient enrollment, verified patient data, provided clinical care to patients; A.B. contributed to the study design; E.D. designed the study, performed research, collected and interpreted the data and wrote the manuscript; G.D'A. designed the study, supervised the research, interpreted the data, provided funds and critically revised the manuscript. E.D. and G.D'A. equally contributed to the work.