Erratum to: Comparing the two leading erythroid lines BEL-A and HUDEP-2

Deborah E. Daniels,[1,2] Damien J. Downes,[3] Ivan Ferrer-Vicens,[1] Daniel C. J. Ferguson,[1] Belinda K. Singleton,[2,4] Marieangela C. Wilson,[1] Kongtana Trakarnsanga,[5] Ryo Kurita,[6] Yukio Nakamura,[7] David J. Anstee[2,4] and Jan Frayne[1,2]

[1]School of Biochemistry, University of Bristol, Bristol, UK; [2]NIHR Blood and Transplant Research Unit, University of Bristol, Bristol, UK; [3]MRC Molecular Haematology Unit, MRC Weatherall Institute of Molecular Medicine, Radcliffe Department of Medicine, University of Oxford, Oxford, UK; [4]Bristol Institute for Transfusion Sciences, National Health Service Blood and Transplant (NHSBT), Bristol, UK; [5]Department of Biochemistry, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand; [6]Department of Research and Development, Central Blood Institute, Blood Service Headquarters, Japanese Red Cross Society, Tokyo, Japan and [7]Cell Engineering Division, RIKEN BioResource Research Center, Ibaraki, Japan

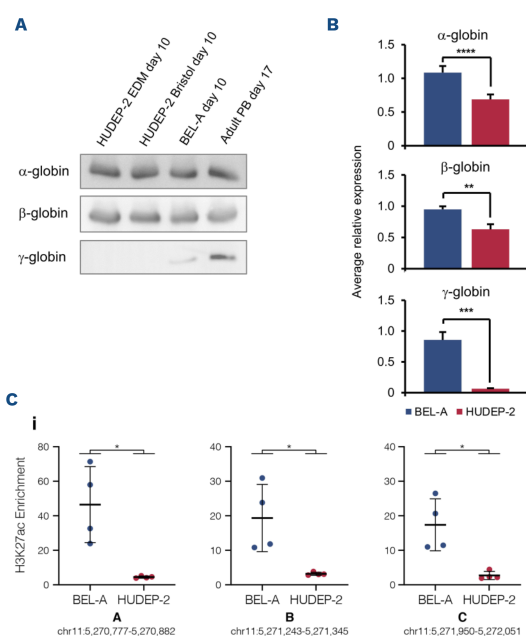
Correspondence: J. Frayne
jan.frayne@bristol.ac.uk

Received: October 19, 2023.
Accepted: October 19, 2023.

https://doi.org/10.3324/haematol.2023.284510

©2024 Ferrata Storti Foundation
Published under a CC BY-NC license

With reference to our paper published in the August issue 2020 of Haematologica,[1] during the final processing of the manuscript the labeling of Figure 2E got accidentally inverted. On both the BEL-A and HUDEP-2 graphs, γ and β globin labels are the wrong way around. The corrected panel E of Figure 2 is shown here.



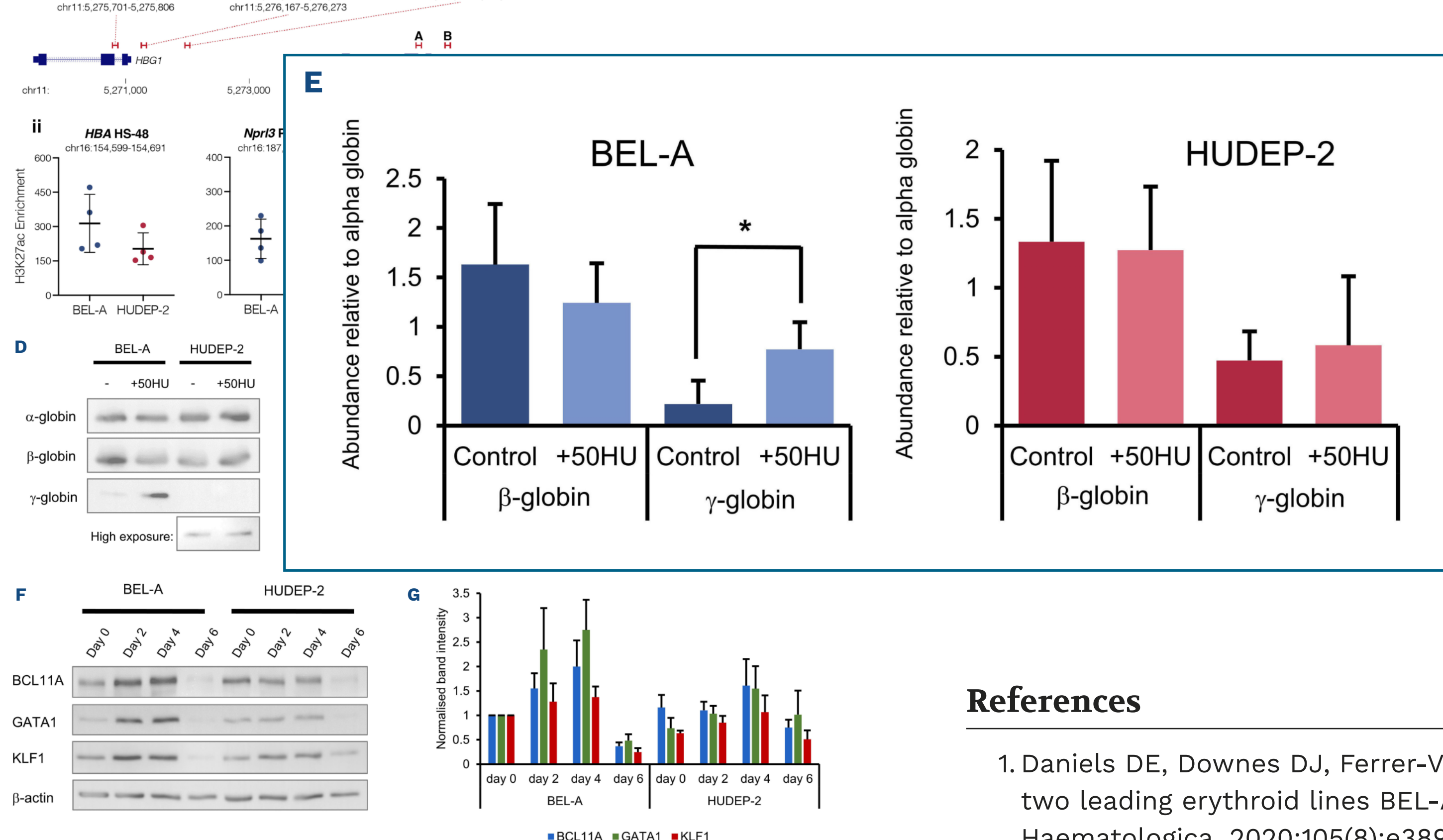


Figure 2. Globin subunit expression by BEL-A and HUDEP-2. (A). Western blots of lysates obtained from late stage (day 10) HUDEP-2 in EDM media, HUDEP-2 and BEL-A in Bristol media and adult peripheral blood (PB; day 17) erythroid cells incubated with antibodies to α-, β- and γ-globin (sc-514378; sc-21757; sc-21756; all Santa Cruz). (B) Analysis of α-, β- and γ-globin mRNA levels in BEL-A and HUDEP-2 in Bristol media on day 6 of culture by quantitative PCR (qPCR). Target gene expression was normalized to PABPC1 reference gene (using the 2–ΔΔCt method) and compared to a BEL-A control sample. Results are means ± standard deviation (SD), N=4. TaqMan gene expression assays used were: HBA (Hs00361191_g1), HBB (Hs00747223_g1), HBG (Hs00361131_g1) and PABPC1 (Hs00743792_s1) (Fisher Scientific). (C) H3K27ac chromatin immunoprecipitation (ChIP) was carried out in 5x10^6 day 4 cells by fixing in 1% formaldehyde and performing immunoprecipitation (IP) with the ChIP Assay Kit (Merck Millipore) using 0.3 μg anti-H3K27ac (ab4729; Abcam). Enrichment at the HBG1/2 promoters (i) and control regions (ii) was determined using qPCR by comparing to a background control (hg19, chr16:6,002,736-6,002,834). Bars depict mean and SD for IP from 4 separate differentiations (circles). *Mann-Whitney rank sum *P*=0.0286. (D-E) Response of BEL-A and HUDEP-2 cells to hydroxyurea treatment. Hydroxyurea (H8627; Sigma) was added to cells at 50 μM every 2 days from four days prior to the start of differentiation until harvesting of cells on day 10 of differentiation. (D) Representative Western blot of cell lysates from ± hydroxyurea (HU) cultures incubated with antibodies to α-, β- and γ-globin and (E) densitometric analysis of the bands obtained from at least 3 independent experiments normalized to α-globin expression (means ± SD). *P<0.05 two-tailed Student t test. (F-G) Expression of BCL11A, GATA1 and KLF1 by BEL-A and HUDEP-2. β-actin was used as a protein loading control. (F) Representative western blots of lysates obtained from cells at day 0, 2, 4 and 6 of BEL-A and HUDEP-2 cultures incubated with BCL11A (ab19487; Abcam), GATA1 (sc-266; Santa Cruz), KLF1 (sc-14034; Santa Cruz) and β-actin (A1978; Sigma) antibodies, and (G) densitometric analysis of the bands obtained from 2 independent experiments normalized to β-actin expression and then compared to BEL-A day 0 (means ± SD).

References

1. Daniels DE, Downes DJ, Ferrer-Vicens I, et al. Comparing the two leading erythroid lines BEL-A and HUDEP-2. Haematologica. 2020:105(8):e389-e394.