

Manuscript no. HAEMATOL/2012/074492 entitled “Hydroxyurea responsiveness in β -thalassemic patients is determined by the stress response adaptation of erythroid progenitors and their differentiation propensity”

Authors: Farzin Pourfarzad, Marieke von Lindern, Azita Azarkeivan, Jun Hou, Sima Kheradmand Kia, Fatemehsadat Esteghamat, Wilfred van IJcken, Sjaak Philipsen, Hossein Najmabadi and Frank Grosveld

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:

- Farzin Pourfarzad, Department of Cell Biology Erasmus-MC, Rotterdam, the Netherlands, f.pourfarzad@sanquin.nl
- Marieke von Lindern, Department of Hematology Erasmus-MC, Rotterdam, the Netherlands, m.vonlindern@sanquin.nl
- Azita Azarkeivan, High Institute for Research and Education in Transfusion Medicine, Department of Thalassemia Clinic, Tehran, Iran, azazarkeivan@yahoo.com
- Jun Hou, Department of Cell Biology Erasmus-MC, Rotterdam, the Netherlands, j.hou@erasmusmc.nl
- Sima Kheradmand Kia, Department of Clinical Genetics Erasmus-MC, Rotterdam, the Netherlands, kheradmandkia@erasmusmc.nl
- Fatemehsadat Esteghamat, Department of Cell Biology Erasmus-MC, Rotterdam, the Netherlands, stgmt@yahoo.com
- Wilfred van IJcken, Erasmus Center for Biomimics Erasmus-MC, Rotterdam, the Netherlands, w.vanijcken@erasmusmc.nl
- Sjaak Philipsen, Department of Cell Biology Erasmus-MC, Rotterdam, the Netherlands, j.philipsen@erasmusmc.nl
- Hossein Najmabadi, Genetics Research Center, University of Social Welfare and Rehabilitation Sciences, Tehran, Iran, hnajm12@yahoo.com
- Frank Grosveld, Department of Cell Biology Erasmus-MC, Rotterdam, the Netherlands, f.grosveld@erasmusmc.nl

According to the International Committee of Medical Journal Editors (ICMJE) (http://www.icmje.org/ethical_1author.html): “Authorship credit should be based on: 1) substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data; 2) drafting the article or revising it critically for important intellectual content; and 3) final approval of the version to be published. Authors should meet conditions 1, 2, and 3 Acquisition of funding, collection of data, or general supervision of the research group alone does not constitute authorship”.

The guarantors of this manuscript confirm that all persons designated as authors qualify for authorship, and that each author has participated sufficiently in the work to take public responsibility for appropriate portions of the content.

2) Authors who participated in the conception of the study:

- Farzin Pourfarzad
- Marieke von Lindern
- Azita Azarkeivan
- Sjaak Philipsen
- Hossein Najmabadi
- Frank Grosveld

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

- Farzin Pourfarzad was responsible for growing primary erythroid progenitors cell from peripheral blood, experimental set up, hematological and growth analysis, microarray and clinical data interpretation
- Marieke von Lindern was responsible for growing primary erythroid progenitors cell from peripheral blood, experimental set up, hematological and growth analysis
- Azita Azarkeivan was responsible for patient selection and clinical investigations
- Jun Hou was responsible for microarray analysis
- Wilfred van IJcken affymetrix microarray data generation
- Hossein Najmabadi was responsible for patient selection and clinical investigations
- Sjaak Philipsen was responsible for study design
- Frank Grosveld was responsible for study design

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

- Farzin Pourfarzad was responsible for all the tables and figures
- Marieke von Lindern figure 1 and supplementary figure 1 and 2
- Azita Azarkeivan was responsible for table S1
- Jun Hou was responsible for figure 2 and figure 3
- Sima Kheradmand Kia supplementary figure 3
- Fatemehsadat Esteghamat was partially responsible for table S1
- Sjaak Philipsen was responsible for result supervision
- Frank Grosveld was responsible for result supervision

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

- Farzin Pourfarzad was responsible for initial draft of the manuscript and its revisions
- Marieke von Lindern was involved in instructing Farzin Pourfarzad to prepare the initial draft, reviewing it and critical advice
- Sjaak Philipsen was responsible for correction of the initial manuscript, revision and critical reviewing of the manuscript
- Frank Grosveld was responsible for correction of the initial manuscript, revision and critical reviewing of the manuscript

6) Contributors Listed in Acknowledgments: The authors would like to acknowledge the patients and their families for their contribution to this study, Dr. Yuri Mochkine from the Department of Biochemistry, Erasmus MC, Rotterdam and Dr. George Garinis from the Department of Genetics, Erasmus MC, Rotterdam for helpful advice on microarray analysis, Kirsten van Lom from the Department of Hematology, Erasmus MC, Rotterdam for HPLC analysis of hemoglobin subtypes, Teus van Gent from the Department of Cell Biology, Erasmus MC, Rotterdam for statistical analysis