

Manuscript no. HAEMATOL/2009/019828 entitled "The majority of the in vitro erythroid expansion potential resides in cd34- cells, outweighing the contribution of cd34+ cells and significantly increasing the erythroblast yield from peripheral blood samples"

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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:

- Dr Ashley Toye
- Dr Geoff Daniels

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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:

Dr Emile van den Akker, Dr Geoff Daniels and Dr Ashley Toye.

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

- Dr Emile van den Akker was responsible for developing the original idea behind culturing mononuclear cells as a way of maximizing erythroblast yield. He developed the culture system under the supervision of the senior authors (Daniels and Toye).

Timothy Satchwell and Stephanie Pellegin helped develop and identify improvements to the culture system to maximize erythroblast yield.

- Dr Ashley Toye responsible for original idea behind culturing peripheral blood mononuclear cells as a way of maximizing erythroblast yield and managed the project.

- Dr Geoff Daniels helped with project design and managed the project.

4) Results. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):

- Dr Emile van den Akker was responsible for the results in Figures 1A-G, Figure 2, Figure 3 A-E, supplemental 1, supplemental 2 and supplemental 3.

- Timothy Satchwell was responsible for the results in Figure 1G and 1H, Figure 3A-E.

- Stephanie Pellegrin was responsible for the results in Figure 1G and Figure 3C.

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

- **Dr Emile van den Akker** was responsible for writing the draft manuscript, data analysis, prepared the figures and edited the final manuscript.
- **Timothy Satchwell** was responsible for manuscript preparation, data analysis, prepared some figures and edited the final manuscript.
- **Stephanie Pellegrin** was responsible for manuscript preparation and edited the final manuscript.
- **Dr Geoff Daniels** was responsible for editing the final manuscript.
- **Dr Ashley Toye** was responsible for writing the draft, data analysis and edited the final manuscript.

6) **Contributors Listed in Acknowledgments:** (Examples of those who might be acknowledged include a person who provided purely technical help, writing assistance, or a department chair who provided only general support. Corresponding authors must declare whether they had assistance with the study design, data collection, data analysis, or manuscript preparation. If such assistance was available, the authors must disclose the identity of the individuals who provided this assistance and the entity that supported it. Financial and material support should also be acknowledged.)

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