Manuscript no. HAEMATOL 2010/023556 entitled "Red blood cells generation from human induced pluripotent stem cells: perspectives for transfusion medicine "Authors: Hélène Lapillonne, Ladan Kobari, Christelle Mazurier, Philippe Tropel, Marie-Catherine Giarratana, Isabelle Zanella-Cleon, Laurent Kiger, Marie Wattenhofer-Donzé, Hélène Puccio, Nicolas Hebert, Alain Francina, Georges Andreu, Stéphane Viville, and Luc **Douay**

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: • DOUAY Luc, affiliation: INSERM, UMR_S938, and UPMC Univ. Paris 06, and AP-HP, Hôpital
- Armand Trousseau, Service d'Hématologie biologique, F-75012, Paris, France and Etablissement Français du Sang Ile de France, F-94200, Ivry-sur-Seine, France. Email address: luc.douay@trs.aphp.fr

According to the International Committee of Medical Journal Editors (ICMJE) (http://www.icmje.org/ethical lauthor.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:
- LAPILLONNE Hélène, affiliation: INSERM, UMR S938, and UPMC Univ. Paris 06, and AP-HP, Hôpital Armand Trousseau, Service d'Hématologie biologique, F-75012, Paris, France. Email address: helene.lapillonne@trs.aphp.fr
- KOBARI Ladan, affiliation: INSERM, UMR S938, and UPMC Univ. Paris 06, F-75012, Paris, France. Email address: ladan.kobari@chusa.jussieu.fr
- 3) Design & Methods. The following authors were responsible for specific investigations (please detail):
- Lapillonne Hélène was responsible of all aspects of the work
- Kobari ladan was responsible for cell cultures experiment
- Mazurier Christelle was responsible for flow cytometry and hemoglobin analyses
- Giarratana Marie-Catherine participated in the erythroid cell culture design
- Tropel Philippe, Puccio Hélène, Wattenhofer-Donzé Marie and Viville Stéphane were responsible for generation of hiPSC
- Francina Alain and Zanella-Cleon Isabelle were responsible for HPLC and mass spectrometry hemoglobin analyses
- Kiger Laurent was responsible for hemoglobin functionality
- 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):
- Lapillonne Hélène was responsible of all results, figures and tables of the work
- Kobari ladan was responsible for cell culture results and figures 2,3,4.
- Mazurier Christelle was responsible for flow cytometry and hemoglobin results and figures 2, 4, 5, \$2

- Tropel Philippe, Puccio Hélène, Wattenhofer-Donzé Marie and Viville Stéphane were responsible for generation and characterization of hiPSC and figures S1, table S2
- Francina Alain and Zanella-Cleon Isabelle were responsible for HPLC and mass spectrometry hemoglobin results
- Kiger Laurent was responsible for hemoglobin functionality results
- Hebert Nicolas participated in cell culture results
- 5) Writing the manuscript. The following authors were responsible for writing the manuscript:
- Lapillonne Hélène was responsible for the all manuscript
- Kobari Ladan and Mazurier Christelle were responsible for the methods and results part of the manuscript
- Tropel Philippe, Puccio Hélène, Wattenhofer-Donzé Marie and Viville Stéphane were responsible for the methods and results of generation and characterization of the hiPSC
- Kiger Laurent was responsible for hemoglobin functionality
- Andreu Georges was responsible for writing the discussion
- 6) Contributors Listed in Acknowledgments:

Marc Peschanski and I-STEM Institute for teaching on hESC culture methods Michel Cailleret (I-Stem), Laurence Reutenauer (Puccio Lab, IGBMC) and Nadège Vaucamps (Puccio Lab, IGBMC) for iPS generation and characterization Cécile André (IGBMC) for her excellent technical assistance