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**Information about the contributions of each person named as having participated in the study**

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**2) Authors who participated in the conception of the study:** Paul-Henri Romeo, Christophe Junot and Jean Delaunay.

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

- Dhouha Darghouth was responsible for purification of red blood cells, metabolome analysis and statistical analysis.
- Bérengère Koehl was responsible for purification of red blood cells, metabolome analysis and statistical analysis.
- Petra Bovee and Giel Bosman were responsible for fractionation of RBCs according to their age.
- Jean-françois Helier and Geoffrey Madalinski were responsible for metabolite analysis and statistical analysis.

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

- Dhouha Darghouth and Bérengère Koehl were responsible for figures 1, 2 and 3.
- Jean-François Helier and Geoffrey Madalinski were responsible for figures 1 and 2.

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

- Dhouha Darghouth, Bérengère Koehl, Jean Delaunay, Christophe Junot and Paul-Henri Romeo were responsible for writing the manuscript.

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