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First author | Emanuela Ferru

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Specific contributions of each author are listed on page 2 of this document.

**Responsible author(s):**

*author(s) responsible for the integrity of the work as a whole*

Name: Francesco Turrini
Institute: University of Turin
e-mail: Francesco.turrini@unito.it
Author contributions (maximum 1 page):

Please describe the contributions of each author, indicating who was responsible for each part of the study and the preparation of the manuscript (collection of data, experiments, data analysis, generation of figures, collection of images, interpretation of data, preparation of the text, etc.)

Franco Turrini, Emanuela Ferru and Antonella Pantaleo designed the experiments, analyzed the data and contributed to the writing of the manuscript; Emanuela Ferru, Antonella Pantaleo, Valentina Gallo performed experiments; Emanuela Ferru contributed to the preparation of images; Franco Carta, FrancaMannu and Amina Khadjavi performed the analysis by Mass Spectrometry. Luisa Ronzoni, Giovanna Graziadei and Maria Domenica Cappellini provided blood samples and clinical analysis. All authors reviewed the manuscript.