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

- Antonio Curti was responsible for data analysis and accuracy, writing of the manuscript
- Sara Trabanelli was responsible for DC generation, immunological tests and data analysis
- Chiara Onofri, Cecilia Evangelisti, Michela Aluigi and Emanuela Ottaviani were responsible for molecular biology
- Valentina Salvestrini and Darina Ocadlikova were responsible for immunological tests
- Sergio Rutella and Raimondo de Cristofaro were responsible for enzymatic assay
- Michele Baccarani and Roberto M . Lemoli were responsible for writing the manuscript

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):

- Antonio Curti was responsible for all figures and tables
- Sara Trabanelli was responsible for figures 1-6, Supplementary figure2 and Supplementary Table 1
- Chiara Onofri, Cecilia Evangelisti and Michela Aluigi were responsible for figure 1
- Emanuela Ottaviani was responsible for Supplementary Figure 1

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

- Antonio Curti, Michele Baccarani and Roberto M. Lemoli were responsible for writing the manuscript

6) Contributors Listed in Acknowledgments: I declare that no specific assistance was provided with the study design, data collection, data analysis and manuscript preparation.

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