Manuscript no. HAEMATOL/2011/047894 entitled “High levels of CD34+CD38low-CD123+ blasts are predictive of an adverse outcome in acute myeloid leukemia: a GOELAMS (Groupe Ouest-Est des Leucemies Aigues et Maladies du Sang) Study”

Authors: François Vergez, Alexa S. Green, Jerome Tamburini, Jean-Emmanuel Sarry, Baptiste Gaillard, Pascale Cornillet-Lefebvre, Melanie Pannetier, Aymeric Neyret, Nicolas Chapuis, Norbert Ifrah, François Dreyfus, Stéphane Manenti, Cécile Demur, Eric Delabesse, Catherine Lacombe, Patrick Mayeux, Didier Boussacry, Christian Récher and Valerie Bardet

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 Bardet Valérie, Institut Cochin, Immuno-hematology department, CHU Cochin, Paris, France, Email: valerie.bardet@cch.aphp.fr
   • Pr Récher Christian, CHU Toulouse, Hôpital Purpan, Service d'Hématologie, Toulouse, France. Email: recher.c@chu-toulouse.fr

According to the International Committee of Medical Journal Editors (ICMJE) (http://www.icmje.org/ethical_1author.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.

FV performed the experiments, statistic analysis and co-wrote the paper; AG collected and analyzed the data; BG, PCL, AN and NC performed the experiments; CD and ED centralized the cytologic review and provided patient samples; JES and SM analyzed the data; NI and FD helped for constituting the cohort of patients; JT, DB, CL, and PM co-wrote the paper; CR and VB designed the study, analyzed the data and co-wrote the paper. The authors reported no potential conflicts of interest.

2) Authors who participated in the conception of the study: Bardet Valérie, Récher Christian

3) Design & Methods. The following authors were responsible for specific investigations (please detail):
   • Bardet Valérie was responsible for flow cytometry
   • Récher Christian was responsible for clinical data from patients (Toulouse hospital)
   • Green Alexa was responsible for clinical data from patients (Cochin hospital)
   • Vergez François and Bardet Valérie were responsible for statistical analysis
   • Ifrah Norbert and Dreyfus François were responsible for recruitment of patients included in the GOELAMS clinical trials.

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):
   • Gaillard Baptiste and Cornillet-Lefebvre Pascale were responsible for karyotype, and mutational analysis of NPM and FLT3.
• Neyret Aymeric, Pannetier Mélanie and Chapuis Nicolas were responsible for acquisition of flow cytometry results from Cochin hospital
• Bardet Valérie was responsible for control and analysis of flow cytometric data (Cochin hospital)
• Vergez François was responsible for acquisition of flow cytometry results from Toulouse hospital and for statistical results; he’s responsible for all figures and tables
• Demur Cécile and Delabesse Eric were responsible for cytologic review and for cells banking.
• Manenti Stéphane and Sarry Jean-Emmanuel were responsible for control and analysis of flow cytometric data (Toulouse hospital)
• Rècher Christian was responsible for acquisition, control and analysis of clinical data from patients (Toulouse hospital)
• Green Alexa was responsible for acquisition, control and analysis of clinical data from patients (Cochin hospital)

5) Writing the manuscript. The following authors were responsible for writing the manuscript:
• Vergez François
• Tamburini Jérome
• Bouscary Didier
• Lacombe Catherine
• Mayeux Patrick
• Rècher Christian
• Bardet Valérie

6) Contributors Listed in Acknowledgments:
This work was supported by grants from the Institut National du Cancer (InCa-DHOS 2009), Canceropole IDF, region IDF.