

Manuscript no.HAEMATOL/2011/046821 entitled “Genes with a spike expression are clustered in chromosome (sub)bands and spike (sub)bands have a powerful prognostic value in patients with multiple myeloma“

Authors: Alboukadel Kassambara, Dirk Hose, Jerome Moreaux, Brian A. Walker, Alexei Protopopov, Thierry Reme, Franck Pellestor, Veronique Pantesco, Anna Jauch, Gareth Morgan, Hartmut Goldschmidt, and Bernard Klein.

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:

- Bernard Klein, CHU Montpellier, Bernard.klein@inserm.fr
- Alboukadel Kassambara, INSERM U1040, alboukadel.kassambara@inserm.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.

2) Authors who participated in the conception of the study: Alboukadel Kassambara and Bernard Klein

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

- Alboukadel Kassambara designed research and performed the analysis
- Bernard Klein is the senior investigator who designed research

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

- Alexei Protopopov provided spectral karyotyping data
- Anna Jauch performed and directed the iFISH analysis
- Veronique Pantesco performed the microarray experiments
- Thierry Reme and Franck Pellestor participated in the analyzing of the data
- Dirk Hose, Jerome Moreaux and Hartmut Goldschmidt collected bone marrow samples and clinical data and interpreted the latter
- Brian A. Walker and Gareth Morgan provided SNP microarray data

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

- Alboukadel Kassambara wrote the paper
- Dirk Hose participated in the writing of the paper
- Bernard Klein is the senior investigator who wrote the paper

6) Contributors Listed in Acknowledgments:

This work was supported by grants from the Ligue Nationale Contre le Cancer (équipe labellisée), Paris, France, from ARC (France), from EU FP7 (OVERMYR), from the Hopp-Foundation, Germany, the University of Heidelberg, Germany, the National Centre for Tumor Diseases, Heidelberg, Germany, the Tumorzentrum Heidelberg/Mannheim, Germany, and the

Deutsche Krebshilfe, Bonn, Germany, the Deutsche Forschungsgemeinschaft, Bonn, Germany.
We thank the Microarray Core Facility of IRB
(<http://irb.montp.inserm.fr/en/index.php?page=Plateau&IdEquipe=6>) and the cytometry
platform of the Institute of Research in Biotherapy
(<http://irb.montp.inserm.fr/en/index.php?page=Plateau&IdEquipe=3>, Montpellier Rio Imaging).
We acknowledge the support of the Biological Research Centre at the Royal Marsden Hospital.