Manuscript no. HAEMATOL 2010/024778 entitled "Identification of translocation products but not K-RAS mutations in memory B cells from multiple myeloma patients-

Authors: Thomas Rasmussen, Jacob Haaber, Inger Marie Dahl, Lene M Knudsen, Gitte B Kerndrup, Marianne Lodahl, Hans E Johnsen and Michael Kuehl

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:
   • Thomas Rasmussen, Department of Hematology, Herlev Hospital, University of Copenhagen, DK-2730 Herlev, Denmark, e-mail rasmussen@oneml.com
   • Jacob Haaber, Department of Hematology, Odense University Hospital, DK 5000 Odense Denmark, e-mail haaber@troensemail.dk
   • Inger Marie Dahl, Section of Hematology, University Hospital, Tromsoe, Norway, e-mail Inger.Marie.Dahl@unn.no
   • Lene M Knudsen, Department of Hematology, Herlev Hospital, University of Copenhagen, DK-2730 Herlev, Denmark, e-mail leneknudsen@ouh.regionsyddanmark.dk
   • Gitte B Kerndrup, Department of Hematology, Odense University Hospital, DK 5000 Odense Denmark, e-mail Gitte.Kerndrup@slb.regionsyddanmark.dk
   • Marianne Lodahl, Department of Hematology, Herlev Hospital, University of Copenhagen, DK-2730 Herlev, Denmark, e-mail mlodahl@sund.ku.dk
   • Hans E Johnsen, Department of Hematology, Aalborg Hospital, Aarhus University Hospitals, DK 9000 Aalborg, Denmark, e-mail haej@rn.dk
   • Michael Kuehl, Genetics Branch, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda Naval Hospital, Building 8, Room 5105, Bethesda, Maryland 20889-5105, USA, e-mail wmk@helix.nih.gov

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:
   Thomas Rasmussen, Hans E Johnsen

3) Design & Methods. The following authors were responsible for specific investigations:
   • Thomas Rasmussen designed the study, performed analysis and interpretation and prepared the manuscript and revised it critically for important intellectual content.
   • Jacob Haaber performed analysis and interpretation and revised the manuscript critically for important intellectual content.
   • Inger Marie Dahl assisted in study design, provision of biomaterial and patient data, data collection and interpretation and revised the manuscript critically for important intellectual content.
   • Lene M Knudsen assisted in study design, provision of biomaterial and patient.
data, data collection and interpretation and revised the manuscript critically for important intellectual content

- Hans E Johnsen assisted in study design, provision of biomaterial and patient data, data collection, analysis and interpretation and revised the manuscript critically for important intellectual content

- **Persons responsible for all figures and tables:** Thomas Rasmussen, Marianne Lodahl and Hans E Johnsen

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

- **Thomas Rasmussen** designed the study, performed analysis and interpretation and prepared the manuscript and revised it critically for important intellectual content.
- **Jacob Haaber** performed analysis and interpretation and revised the manuscript critically for important intellectual content.
- **Gitte B Kerndrup** performed analysis and interpretation and revised the manuscript critically for important intellectual content.
- **Marianne Lodahl** performed analysis and interpretation and revised the manuscript critically for important intellectual content.

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

- **Thomas Rasmussen** designed the study, performed analysis and interpretation and prepared the manuscript and revised it critically for important intellectual content.
- **Hans E Johnsen** assisted in study design, provision of biomaterial and patient data, data collection, analysis and interpretation and revised the manuscript critically for important intellectual content.
- **Michael Kuehl** is corresponding author/guarantor and coordinator, assisted in study design, analysis and interpretation and revised the manuscript critically for important intellectual content.

6) **Contributors Listed in Acknowledgments:** This project has been supported in part by the Danish Cancer Society, grant number DP 00 006 to TR and DP 22-00-0314 and DP 2002-04 to Hans E Johnsen.

Hans E Johnsen was supported by a senior grant from Multiple Myeloma Research Foundation 2003-4 and EU 6th FP to MSCNET (LSHC-CT-2006-037602) and Michael Kuehl was supported by the Intramural Research Program of the NIH, National Cancer Institute, Center for Cancer Research.

The authors thank Kirsten Nikolajsen for technical assistance with FACS sorting.