## Haematologica HAEMATOL/2015/135137 Version 3

Risk assessment of relapse by lineage-specific monitoring of chimerism in children undergoing allogeneic stem cell transplantation for acute lymphoblastic leukemia

Sandra Preuner, Christina Peters, Ulrike Pötschger, Helga Daxberger, Gerhard Fritsch, Rene Geyeregger, Andre Schrauder, Arend von Stackelberg, Martin Schrappe, Peter Bader, Wolfram Ebell, Cornelia Eckert, Peter Lang, Karl-Walter Sykora, Johanna Schrum, Bernhard Kremens, Karoline Ehlert, Michael H. Albert, Roland Meisel, Anita Lawitschka, Georg Mann, Renate Panzer-Grümayer, Tayfun Güngör, Wolfgang Holter, Brigitte Strahm, Bernd Gruhn, Ansgar Schulz, Willi Woessmann, and Thomas Lion

Disclosures: C.Peters: grants from Children's Cancer Research Institute, Deutsche Knochenmarkspende, Fresenius Biotech and personal fees from Medac INC, Amgen, Pierre Fabre outside the submitted work; R.Meisel: support from Elterninitiative Kinderkrebsklinik e.V. Düsseldorf, Neovii Biotech, Gentium and personal fees from Amgen outside the submitted work; M.Schrappe: grant from Fresenius Biotech; A.v.Stackelberg: grants from EusaPharma and personal fees from Amgen outside the submitted work; T.Lion: grants from Novartis and personal fees from Novartis, BMS, Pfizer, Ariad outside the submitted work. The other authors declared no conflicts of interest.

Contributions: Sandra Preuner, MS, performed experiments, analysed data, wrote manuscript; Prof. Christina Peters, MD, co-designed the study, collected and analysed clinical data, assisted with manuscript writing; Ulrike Pötschger, MSc, performed statistical analysis; Helga Daxberger, performed experiments; Gerhard Fritsch, PhD, performed flow sorting experiments, analysed data; Rene Geyeregger PhD, performed flow sorting experiments, analysed data; André Schrauder, MD, provided clinical specimens, and analysed clinical data; Prof. Arend von Stackelberg, MD, provided clinical specimens, and analysed clinical data; Prof. Martin Schrappe, MD, provided clinical specimens, and analysed clinical data; Prof. Peter Bader, MD, performed and provided results of minimal residual disease testing; Wolfram Ebell, MD, provided clinical specimens, and analysed clinical data; Cornelia Eckert, PhD, performed and provided results of minimal residual disease testing; Prof. Peter Lang, MD, provided clinical specimens, and analysed clinical data; Prof. Karl-Walter Sykora, MD, provided clinical specimens, and analysed clinical data; Johanna Schrum, MD, provided clinical specimens, and analysed clinical data; Prof. Bernhard Kremens, MD, provided clinical specimens, and analysed clinical data; Karoline Ehlert, MD, provided clinical specimens, and analysed clinical data; Michael Albert, MD, provided clinical specimens, and analysed clinical data; Prof. Roland Meisel, MD, provided clinical specimens, and analysed clinical data; Anita Lawitschka, MD, provided clinical specimens, and analysed clinical data; Mann Georg, MD, provided clinical specimens, and analysed clinical data; Prof. Renate Panzer-Grümayer, MD, performed and provided results of minimal residual disease testing; Prof. Tayfun Güngör, MD, provided clinical specimens, and analysed clinical data; Prof. Wolfgang Holter, MD, provided clinical specimens, and analysed clinical data; Brigitte Strahm, MD, provided clinical specimens, and analysed clinical data; Prof. Bernd Gruhn, MD, provided clinical specimens, and analysed clinical data; Prof. Ansgar Schulz, MD, provided clinical specimens, and analysed clinical data; Prof. Wilhelm Woessmann, MD provided clinical specimens, and analysed clinical data; Prof. Thomas Lion, MD, PhD designed study, analysed data, wrote manuscript.