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Contributions: C.C. performed experiments, analysed data and wrote the manuscript. E.A. and L.W. performed experiments. W-Y.L. performed clustering analysis. J.P.W., H.M. and S.M. recruited patients and provided clinical information. N.B. analysed cytogenetic abnormalities and provided clinical information. E.W. and J.L. designed the research, secured funding and edited the manuscript.