

Haematologica  
HAEMATOL/2019/231183  
Version 4

CD28.OX40 co-stimulatory combination is associated with long in vivo persistence and high activity of CAR.CD30 T-cells

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Disclosures: 1)The chemical inducer of dimerization CID (AP1903) was kindly provided by Bellicum Pharmaceuticals (USA) 2)The authors have no conflicting financial interests 3) patent application No. 102018000003464

Contributions: B.D.A., C.Q. and F. L. share Last authorship. F.L. is the Senior author of the paper. M.G. is the First author of the paper. M.G., C.Q, B.D.A. and F.L. designed experimental studies, supervised the project conduction, analyzed the data and wrote the manuscript. M.G., D.O., S.D.C., M.S., S.C., I.B., Z.A., A.C., B.C., K.B.,S.M.,R.C., I.C., C.D.S., M.P., E.G., M.S., S.M., R.C. and R.D.V. performed the in vitro experiments. C.D.S., M.P. performed immunoistochemistry assay M.G., I.B., B.D.A. and C.Q. performed the in vivo experiments. D.O. and M.G and B.D.A. cloned the retroviral vector. M.G., E.G., M.S. and M.S. performed FACS analysis. A.R., F.D.B., P.M., L.V., K.G., R.D.V., L.M. and F.L. provided patient's samples, medical advices and expertise in pediatric lymphoma. S.B., A.Ci., M.T. performed data analyses