

Haematologica  
HAEMATOL/2018/211011  
Version 3

The novel CD19-targeting antibody-drug conjugate huB4-DGN462 shows improved anti-tumor activity than SAR3419 in CD19-positive lymphoma and leukemia models

Stuart W. Hicks, Chiara Tarantelli, Alan Wilhem, Eugenio Gaudio, Min Li, Alberto J. Arribas, Filippo Spriano, Roberta Bordone, Luciano Cascione, Katharine C. Lai, Qifeng Qiu, Monica Tadorelli, Davide Rossi, Georg Stüssi, Emanuele Zucca, Anastasios Stathis, Callum M. Sloss, and Francesco Bertoni

Disclosures: Stuart W. Hicks, Alan Wilhem, Min Li, Katharine C. Lai, Qifeng Qiu, Callum M. Sloss: ImmunoGen employees. Alberto J. Arribas: travel grant from Astra Zeneca. Luciano Cascione: travel grant from HTG. Davide Rossi: grant support from Gilead, AbbVie, Janssen; honoraria from Gilead, AbbVie Janssen, Roche; scientific advisory board fees from Gilead, AbbVie, Janssen, AstraZeneca, MSD. Georg Stüssi: travel grants from Novartis, Celgene, Roche; consultancy fee from Novartis; scientific advisory board fees from Bayer, Celgene, Janssen, Novartis; speaker fees from Gilead. Anastasios Stathis: institutional research funds from: Bayer, ImmunoGen, Merck, Pfizer, Novartis, Roche; travel grant from AbbVie. Emanuele Zucca: institutional research funds from Celgene, Roche and Janssen; advisory board fees from Celgene, Roche, Mei Pharma, Astra Zeneca and Celltrion Helthcare; travel grants from Abbvie and Gilead; expert statements provided to Gilead, Bristol-Myers Squibb and MSD. Francesco Bertoni: institutional research funds from Acerta, Bayer AG, Cellestia, CTI Life Sciences, EMD Serono, Helsinn, ImmunoGen, Menarini Ricerche, NEOMED Therapeutics 1, Oncology Therapeutic Development, PIQUR Therapeutics AG; consultancy fee from Helsinn, Menarini; expert statements provided to HTG; travel grants from Amgen, Astra Zeneca, Jazz Pharmaceuticals, PIQUR Therapeutics AG.

Contributions: Contribution: SWH, CMS and FB provided conception and design; SWH, CT, AW, EG, ML, FS, KCL, QQ designed and performed experiments, analyzed results, and prepared figures; AJA, RB: performed experiments; RL performed genotyping for cell identity; LC performed statistical analyses; MT performed FISH analyses; SWH, CT, DR, GS, EZ, AS, CMS and FB contributed to data interpretation and manuscript revision; FB provided study supervision and wrote the manuscript; all authors read and edited the manuscript.