Haematologica HAEMATOL/2018/214155 Version 3

Myelodysplastic syndrome-associated spliceosome gene mutations enhance innate immune signaling

Daniel A. Pollyea, Chelsea Harris, Jennifer L. Rabe, Brenna R. Hedin, Lesly De Arras, Sigrid Katz, Emily Wheeler, Rafael Bejar, Matthew J. Walter, Craig T. Jordan, Eric M. Pietras, and Scott Alper

Disclosures: This study was supported by National Institutes of Health grants R01ES025161 (to S.A.), K01DK098315 (to E.M.P.), F31HL138754 (to J.L.R.), the V Foundation Scholar Award (to R.B.) as well as grants from the Cancer League of Colorado, the University of Colorado Hematological Malignancies Pilot Grant Program, University of Colorado RNA Biosciences Initiative Project Grant, and the Wendy Siegel Fund for Leukemia and Cancer Research. C.T.J. is generously supported by the Nancy Carroll Allen Chair in Hematology Research. D.A.P. received research funding from Abbvie and Agios and is an advisory board member for Pfizer, Gilead, Astellas, Abbvie, Agios, and DSI. R.B. was a consultant for Celgene and Genoptix and received honoraria from Xian Jannsen and Celgene and research funding from Takeda.

Contributions: D.A.P., C.T.J., E.M.P. and S.A. designed the research, analyzed results, and wrote the paper. C.H. performed experiments and analyzed results. J.L.R., B.R.H., L.D.A., S.K., and E.W. performed experiments. R.B. and M.J.W. provided key reagents.