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Ataxia telangiectasia mutated interacts with Parkin and induces mitophagy independent of kinase activity. Evidence from mantle cell lymphoma

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Contributions: A.S. conceptualized the study, designed experiments, generated and analyzed data, and wrote the manuscript. C.M.S. contributed and provided critical reagents related to autophagy studies and was involved in designing and analyzing the protein half-life and mRNA qPCR studies. H.V.V contributed in Seahorse XF96 Analyzer and in OCR studies. M.A. performed NTP assays and HPLC analysis. B.A.K. and J.P contributed in qPCR analysis of mtDNA experiments. K.B. and A.S. contributed in FCS assays related to cytotoxicity. J.K.B and W.N.H. contributed in confocal analyses. T.K.P. contributed critical reagents and technical help related to ATM kinase function. S.S.N. identified patients and provided primary B-cell lymphoma cells and their cytogenetic characteristics. V.G. supervised the research project, analyzed data, obtained funding, and reviewed the manuscript. T.K.P., W.N.H., C.M.S and V.G. contributed in writing/editing the manuscript.