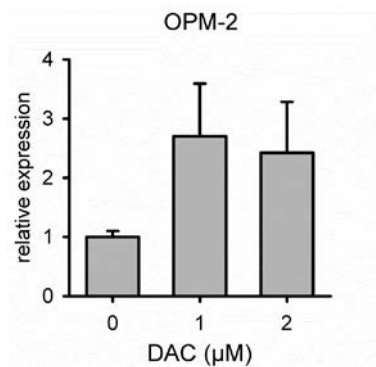
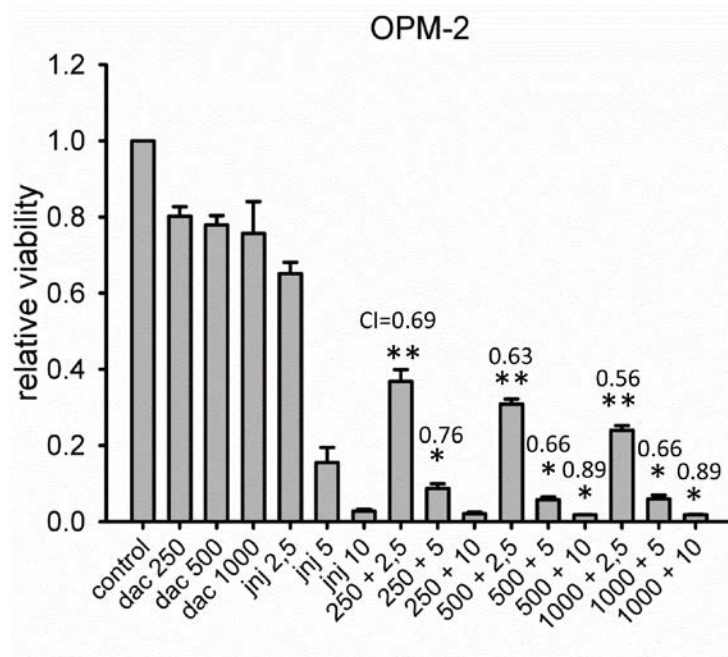


The Role of DNA Damage and Repair in Decitabine-Mediated Apoptosis in Multiple Myeloma – Maes et al



Supplementary Figure S1: DAC induced BIM mRNA expression in OPM-2 cells. OPM-2 cells were treated with DAC for 3 days. BIM mRNA expression was determined by quantitative real-time expression. Primers for BIM: (5'-3') forward: GCCACTACCACCACTTGATTCTTG; reverse: CCGTGATTGCCTTCAGGATTACC. Data are presented relative to untreated cells. Bars and error bars represent mean and SD from 3 experiments. * indicates $p < 0.05$.



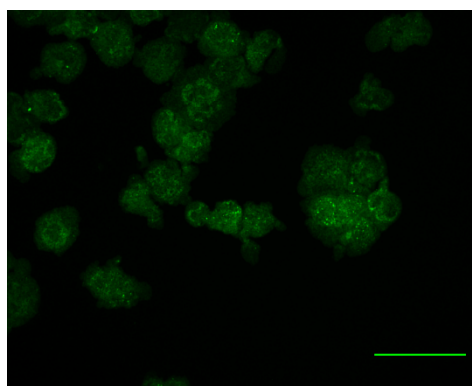
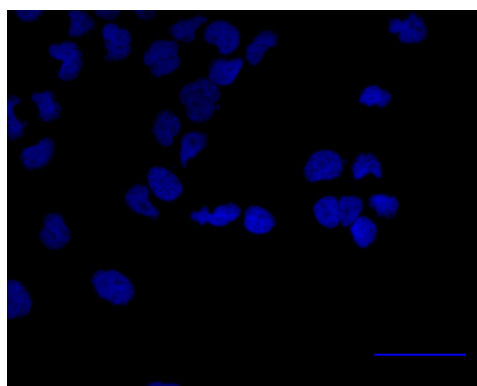
Supplementary Figure S2: DAC and JNJ-585 have synergistic anti-myeloma effects. OPM-2 cells were treated with three doses of DAC (250, 500, 1000nM) or JNJ-585 (2.5, 5, 10nM) and the combination. Effects on viability were determined by Cell-Titer Glo assay according to manufacturer's instructions. Briefly, cells were seeded in 96-well plates (3×10^5 cells) and treated for three days. Next, the substrate was added and the bioluminescent signal was quantified with the GloMax 96 plate luminometer (Promega). Experimental conditions were performed in triplicate. Results are expressed as the relative viability compared to untreated cells. Bars and error bars are mean and SD of three independent experiments. Synergy and combination indexes (CI) were determined using Calcsyn software. $CI > 1.0$ indicates an antagonistic effect, $CI = 1.0$ an additive effect and $CI < 1.0$ a synergistic effect. * means $p < 0.05$, ** means $p < 0.01$.

OPM-2

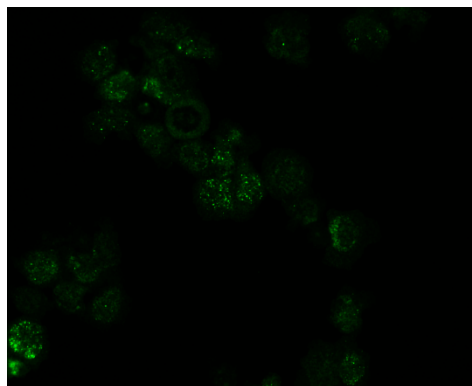
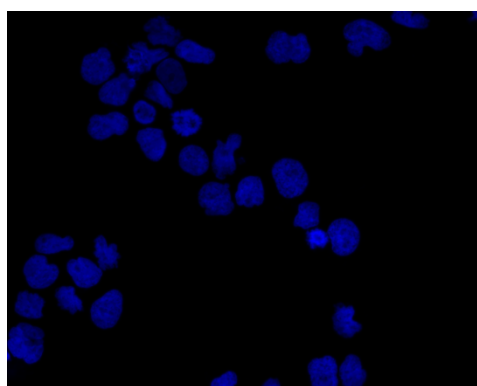
DAPI

RAD51

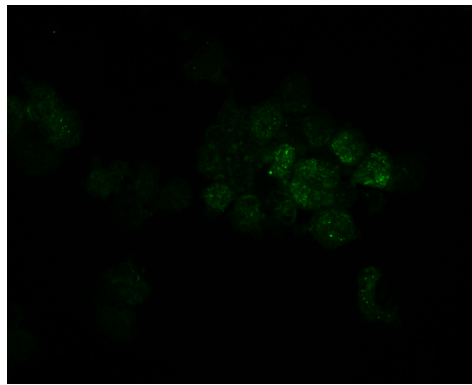
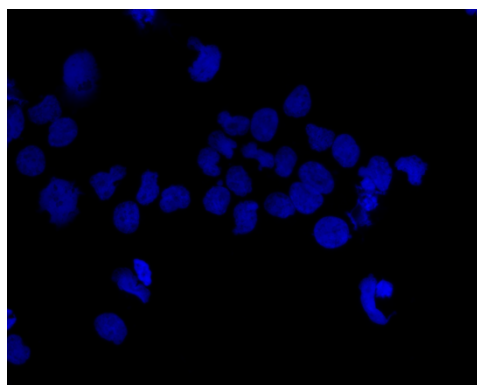
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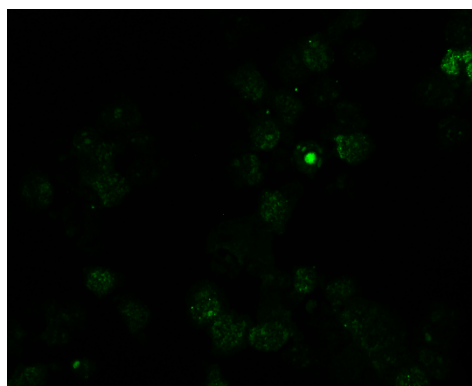
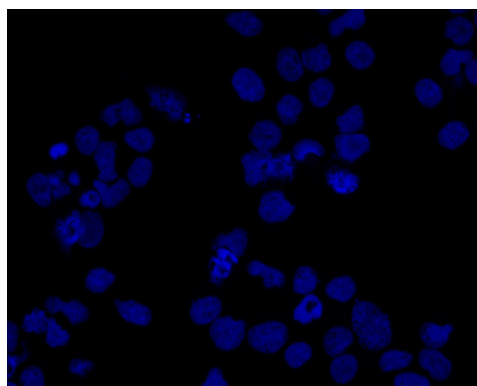
DAC



JNJ-585



Combo

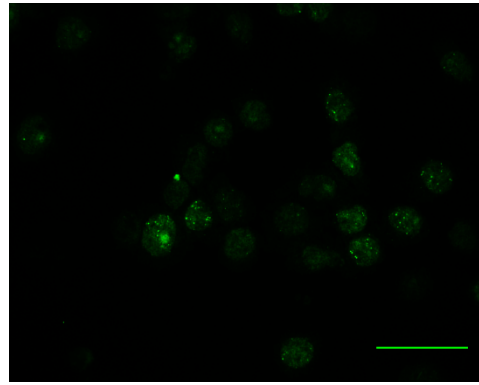
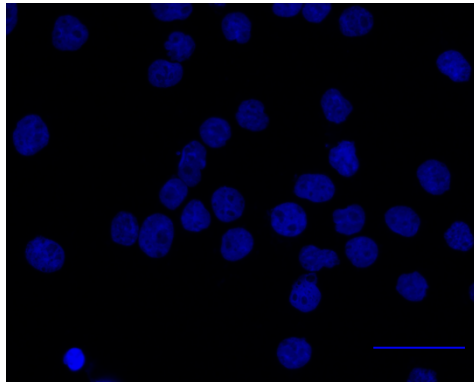


RPMI-8226

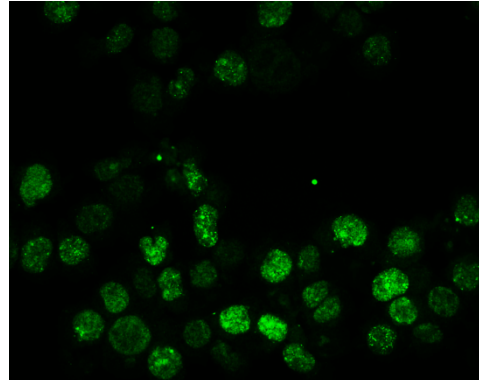
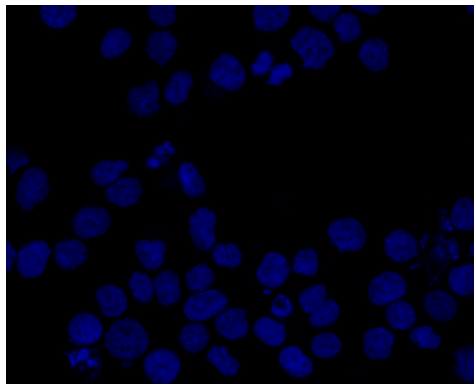
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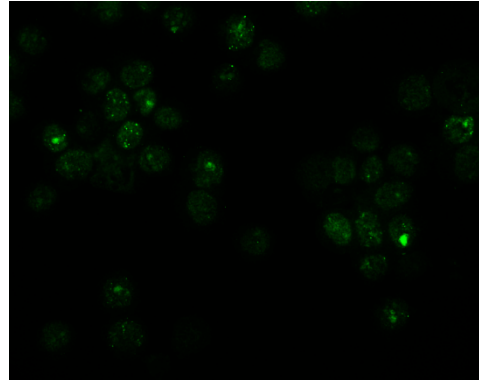
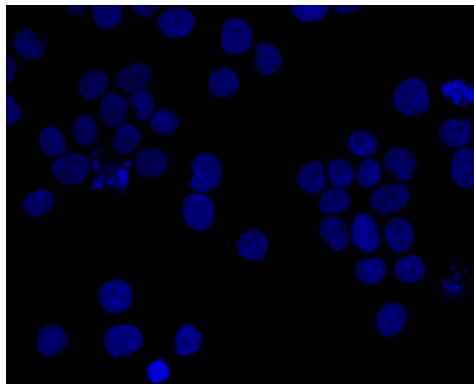
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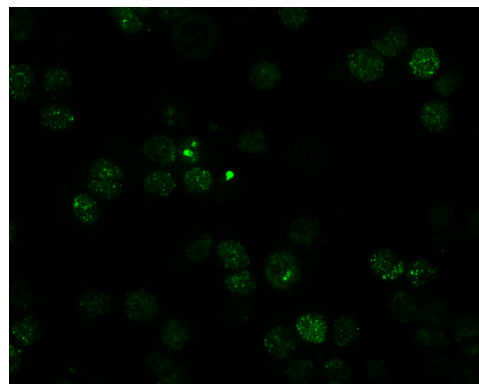
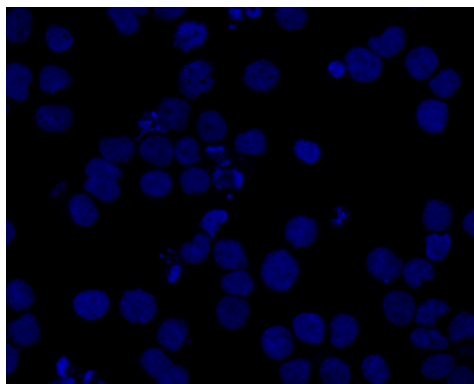
DAC



JNJ-585



combo

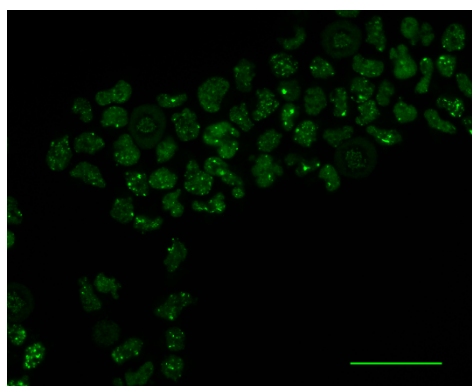
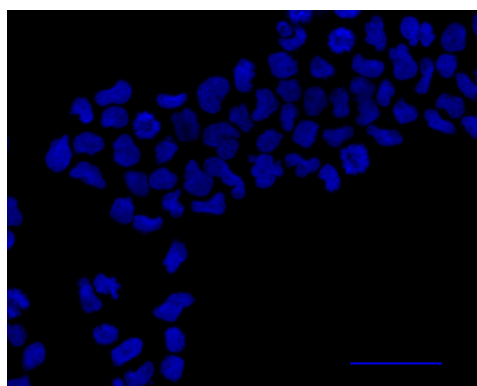


OPM-2

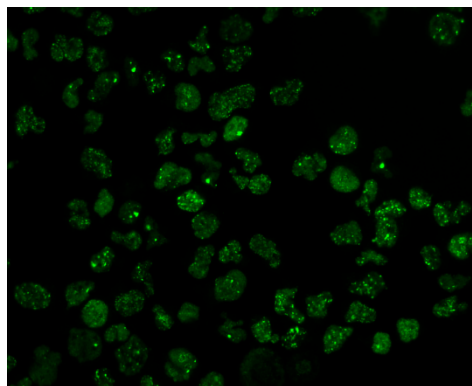
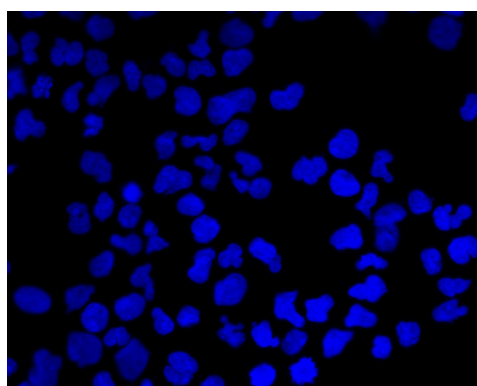
DAPI

53BP1

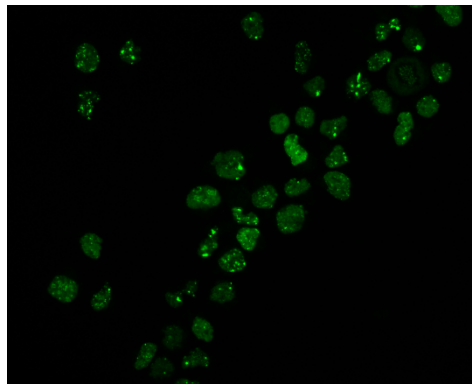
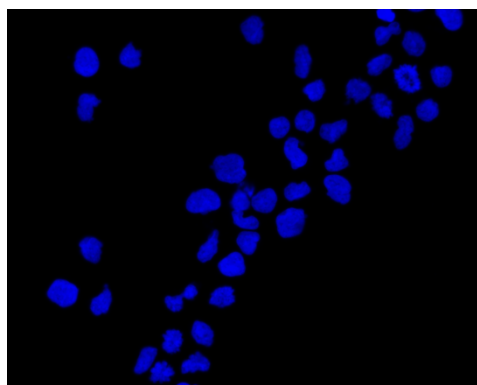
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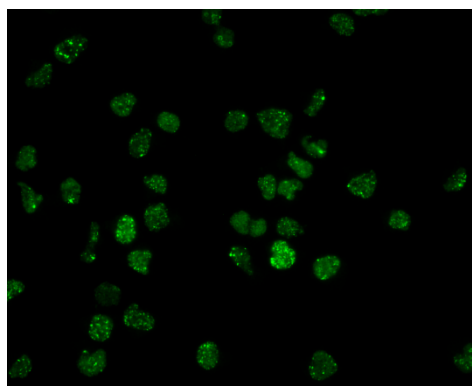
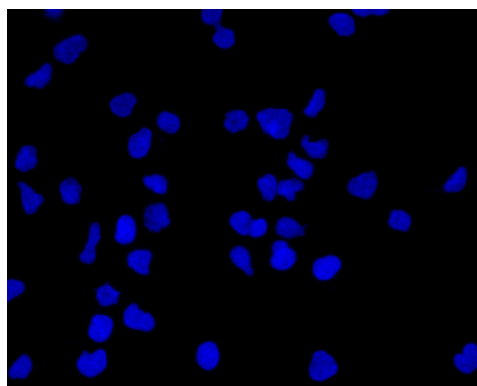
DAC



JNJ-585



combo

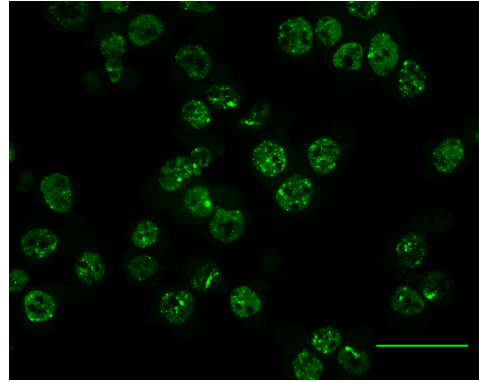
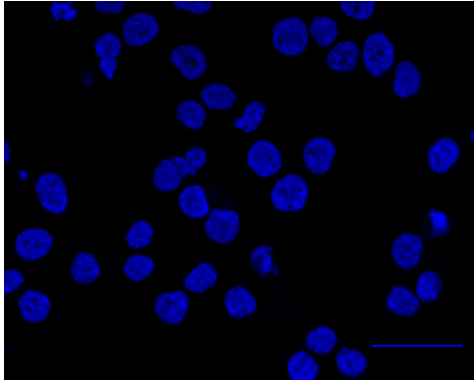


RPMI-8226

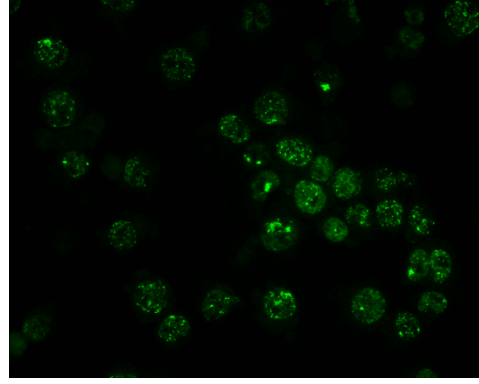
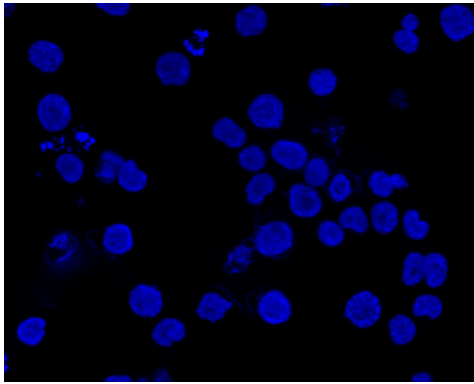
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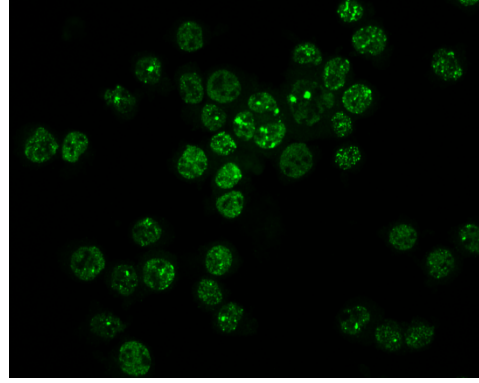
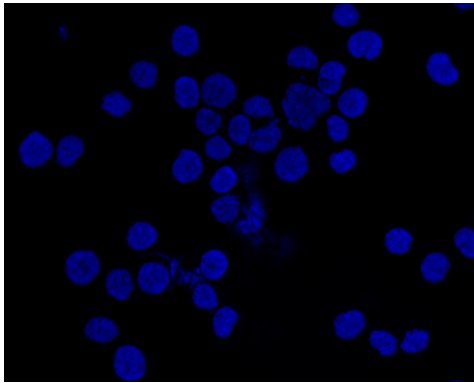
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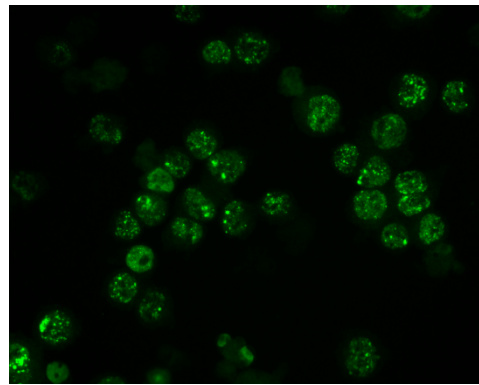
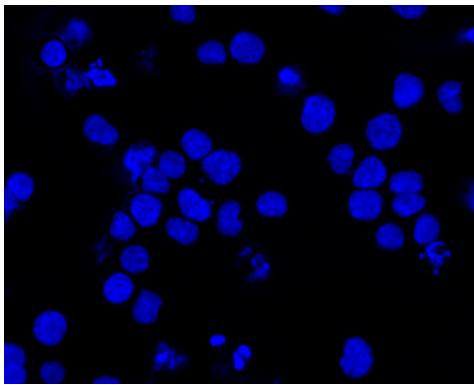
DAC



JNJ-585



combo



Supplementary Figure S3-S6: JNJ-585 influenced DAC-mediated DNA repair responses. Cells were treated with DAC and/or JNJ-585 for 1 day. Doses for OPM-2 were 1 μ M DAC and 2.5nM JNJ-585; for RPMI-8226 1 μ M DAC and 5nM JNJ-585. Next, cytopspins were made and stained for DAPI and RAD51 (S3, S4) or 53BP1 (S5, S6). Immunofluorescent pictures representative of one experiment are shown. Scale bar = 50 μ m.