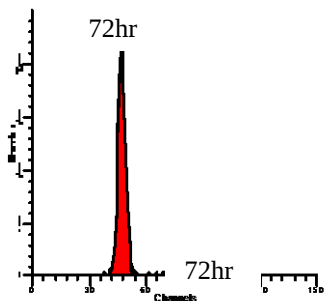
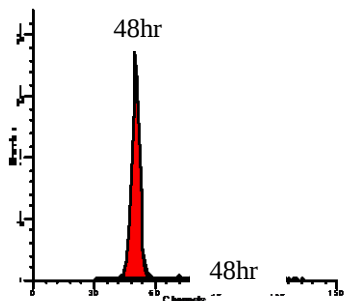
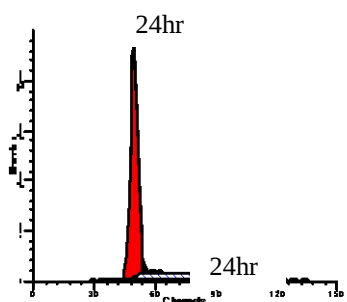


**Synthesis, Biological Evaluation and Modeling Studies of New Pyrido[3,4-*b*]indole
Derivatives as Potent Broad-Spectrum Anticancer Agents**

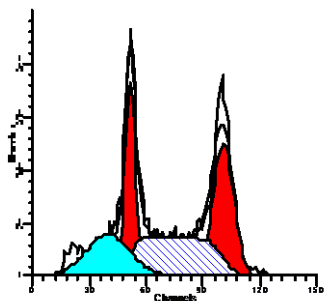
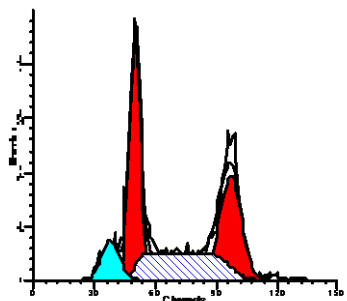
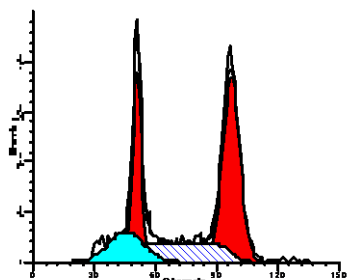
Shivaputra A. Patil^{1,†}, James K. Addo^{1,#}, Hemantkumar Deokar², Shan Sun^{1,±}, Jin Wang¹,
Wei Li¹, Parker D. Suttle³, Wei Wang⁴, Ruiwen Zhang^{4*}, John K. Buolamwini^{1,2,*}

Supplemental Material

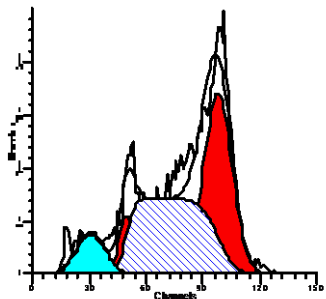
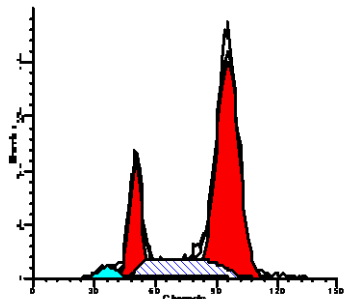
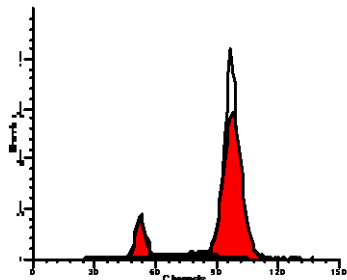
A549 Control



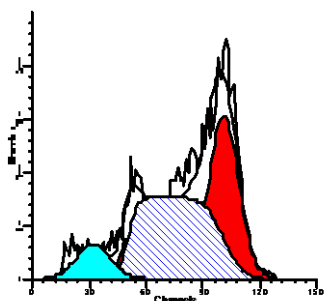
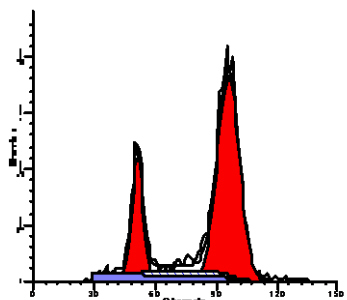
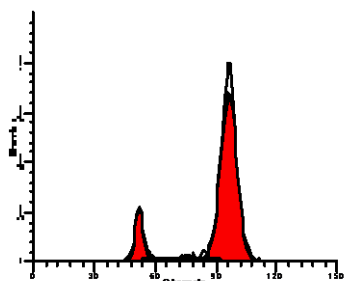
A549 + SP-110



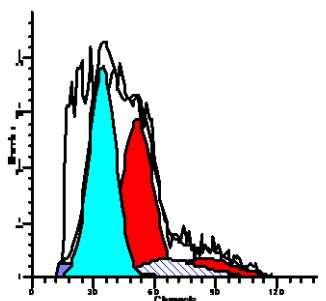
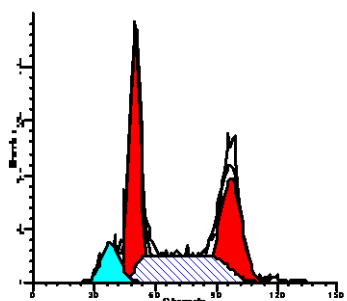
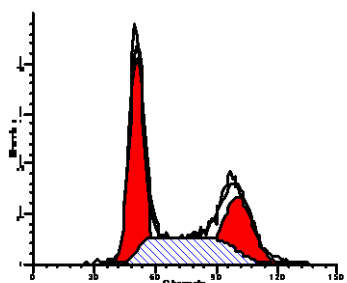
A549 + SP-110-5M2

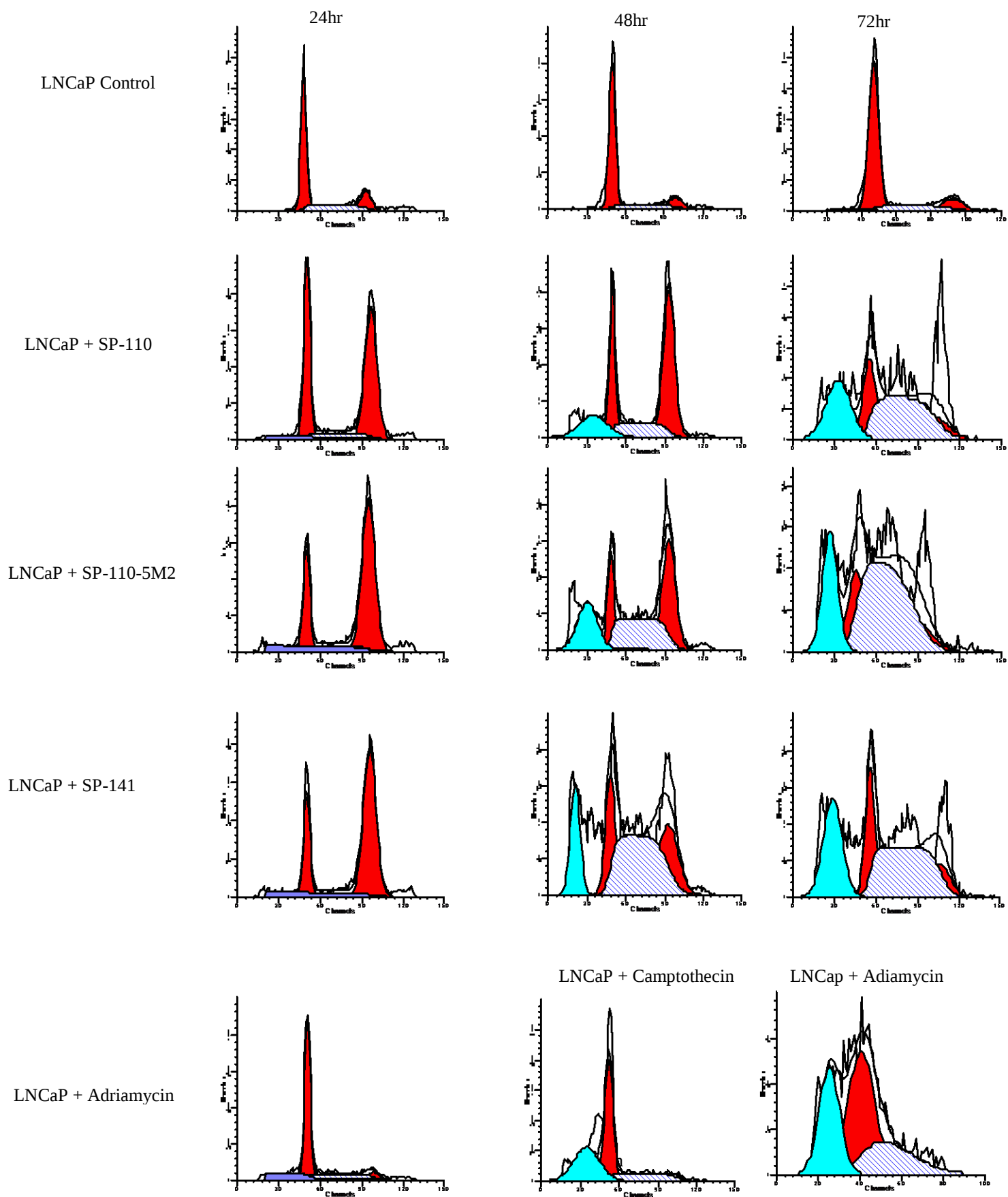


A549 + SP-141



A549 + Adriamycin



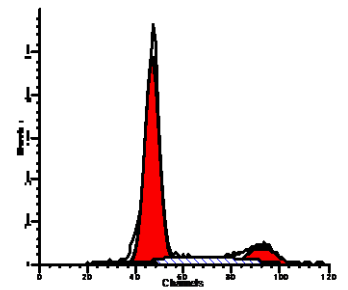
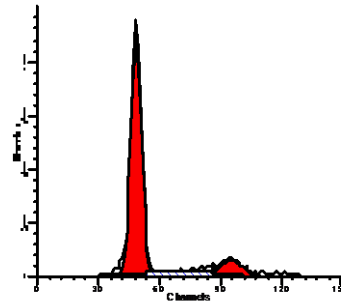
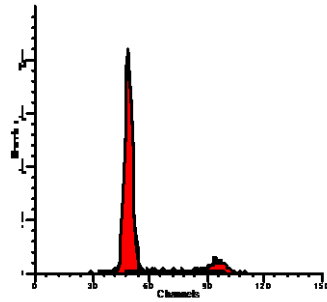


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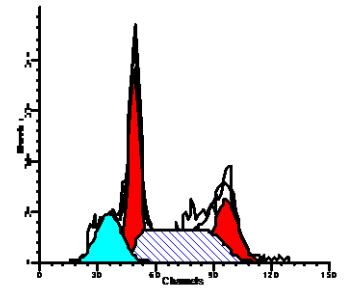
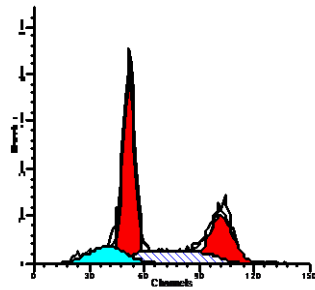
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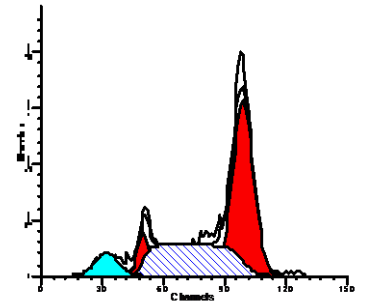
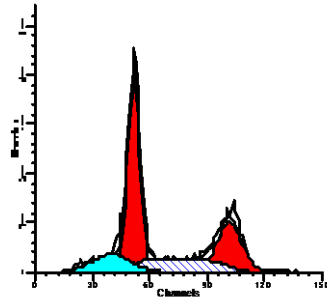
DU145 Control



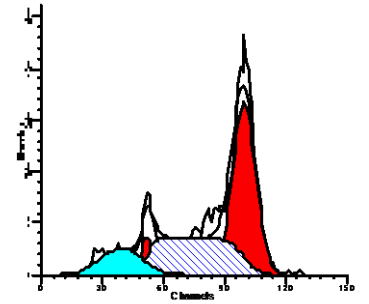
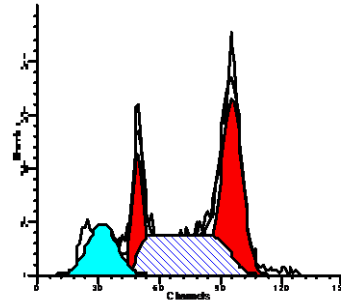
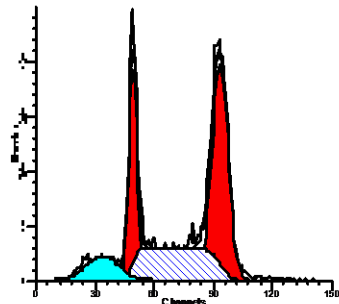
DU145 + SP-110



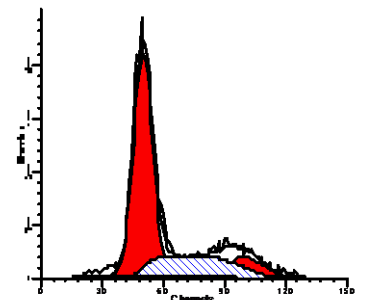
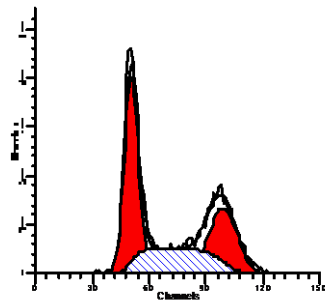
DU145 + SP-110-5M2



DU145 + SP-141



DU145 + Adriamycin

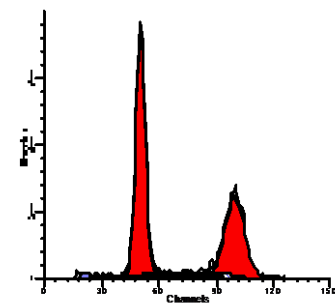
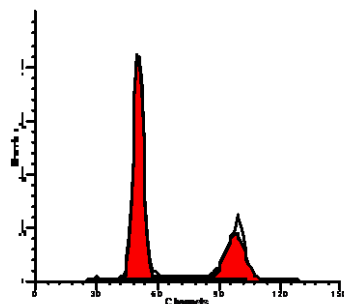
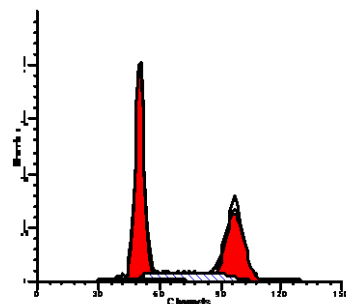


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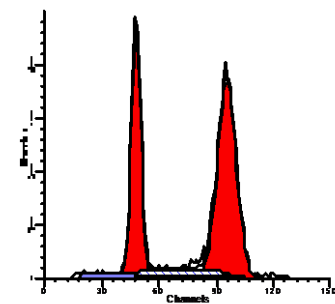
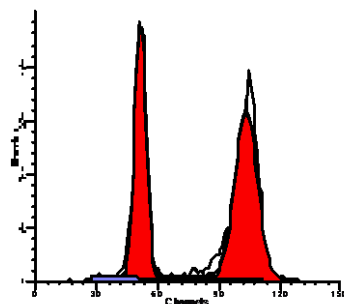
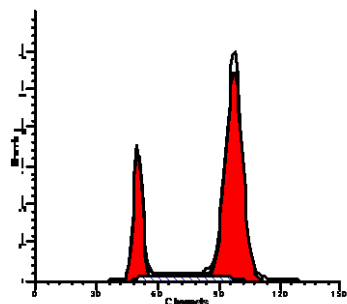
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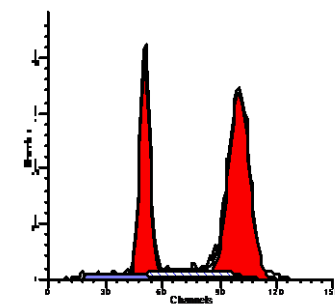
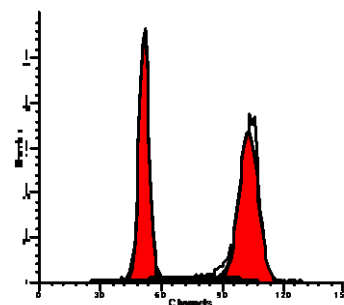
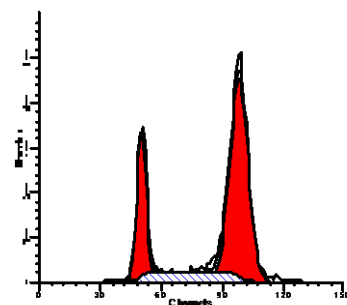
PC-3 Control



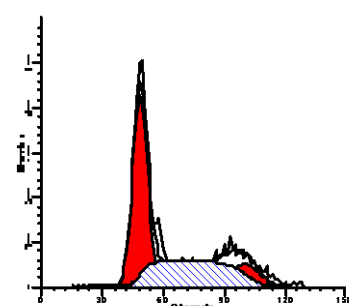
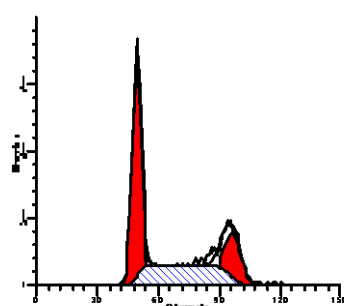
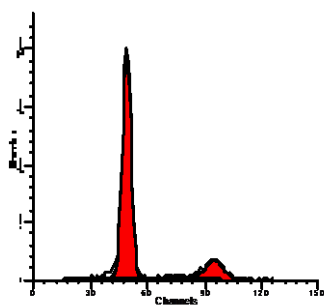
PC-3 + SP-110



PC-3 + SP-110-5M2

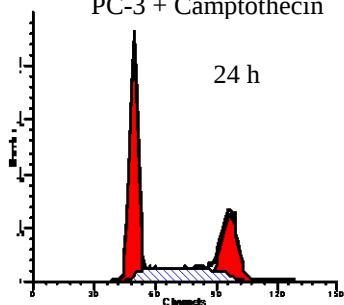


PC-3 + SP-141



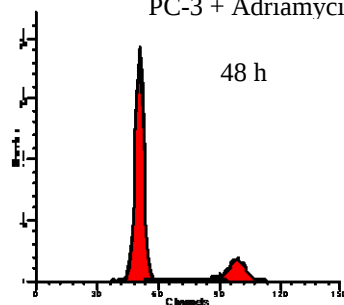
PC-3 + Camptothecin

24 h



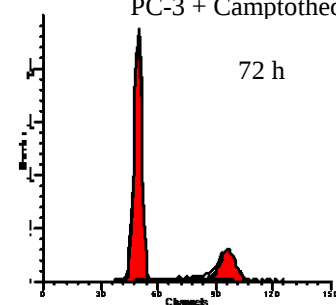
PC-3 + Adriamycin

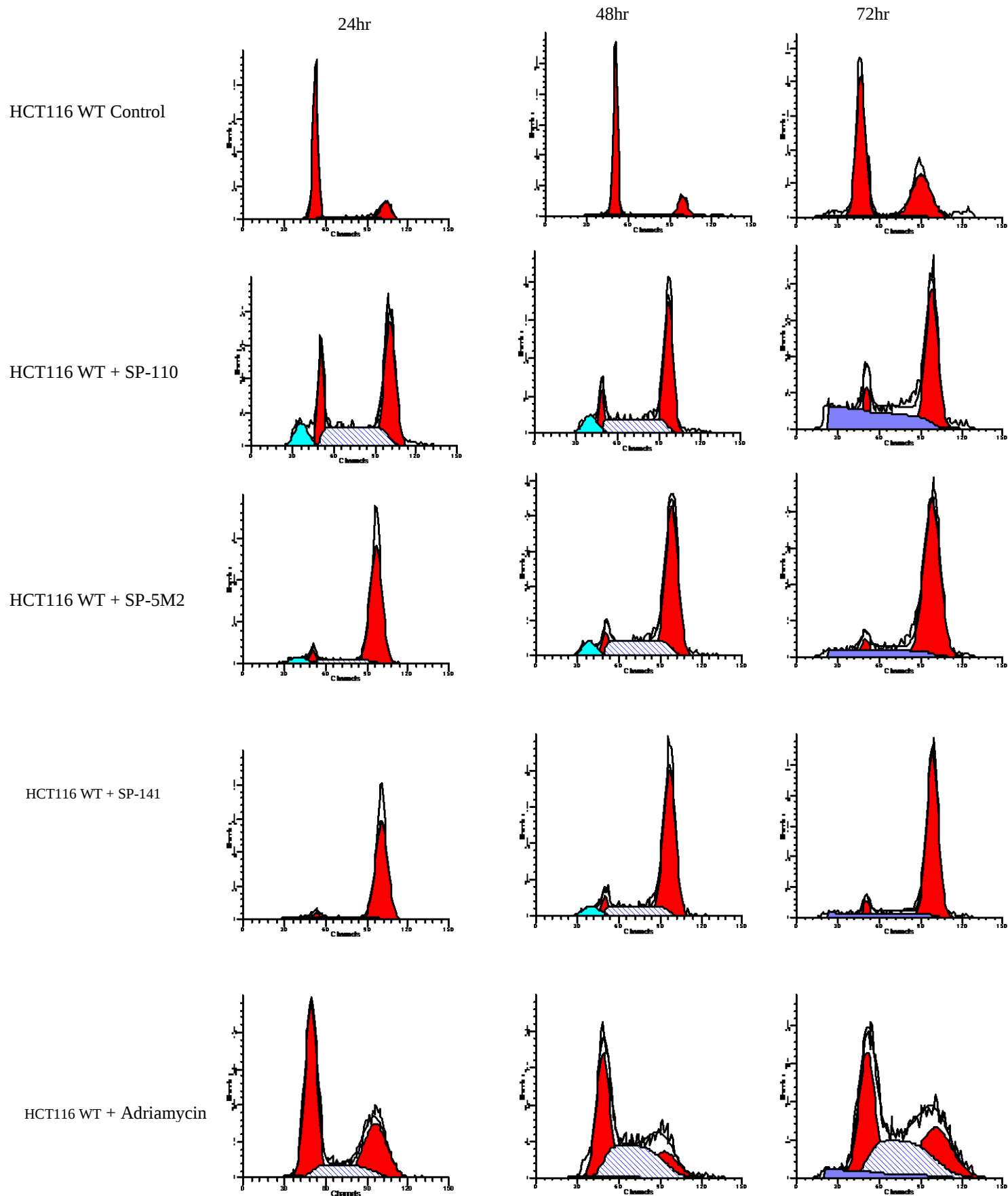
48 h

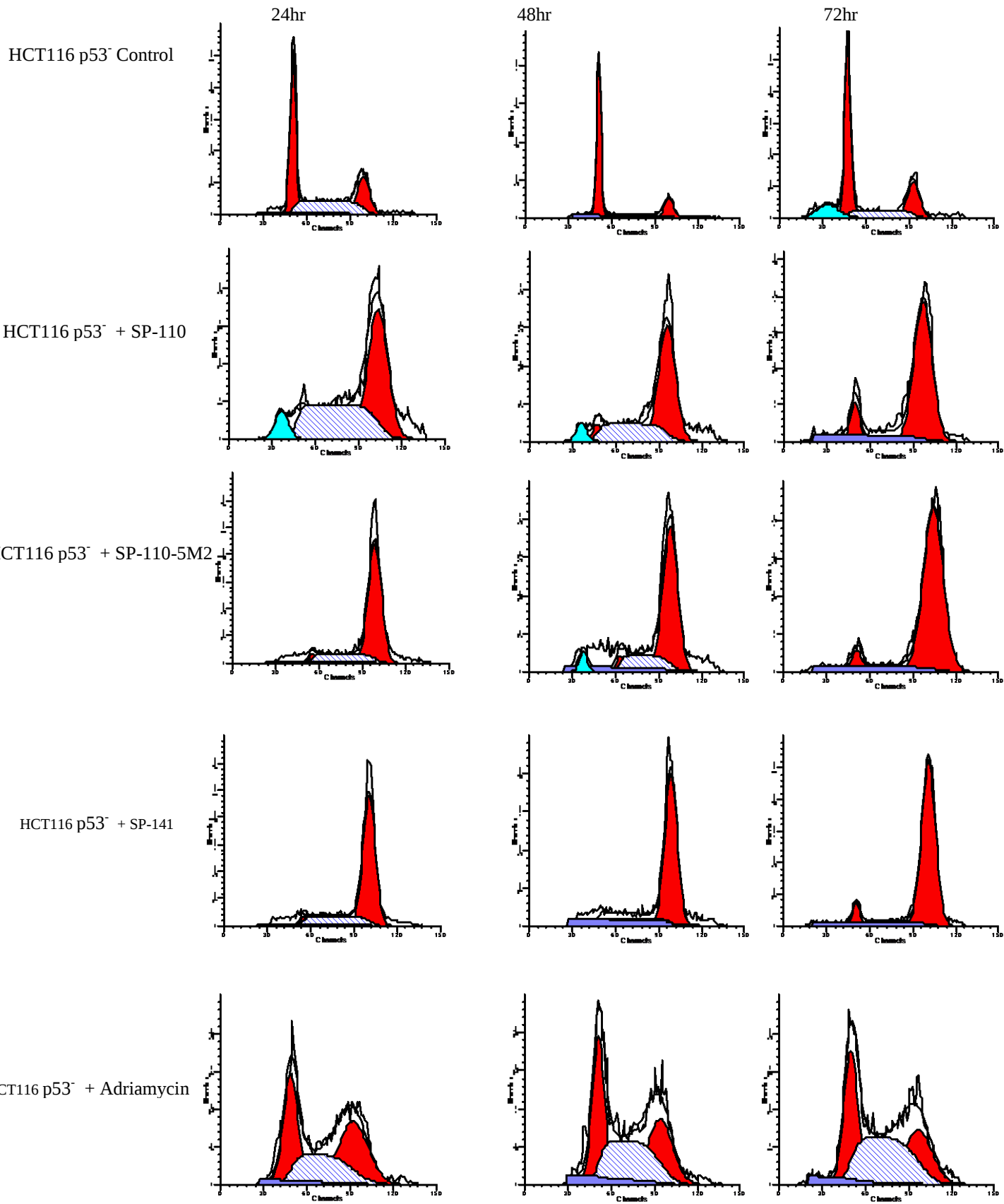


PC-3 + Camptothecin

72 h



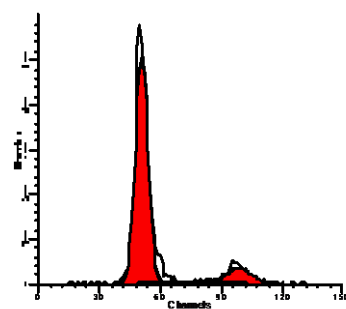
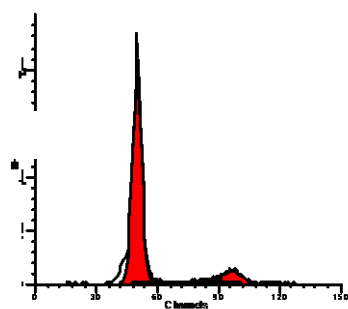




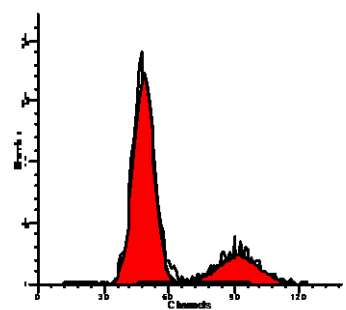
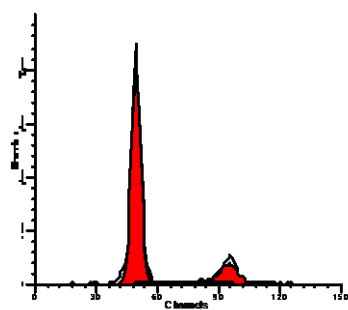
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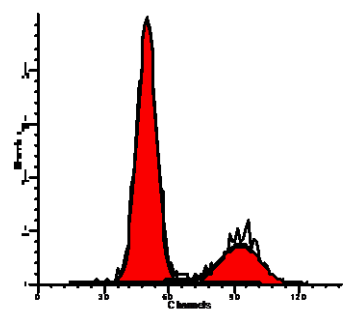
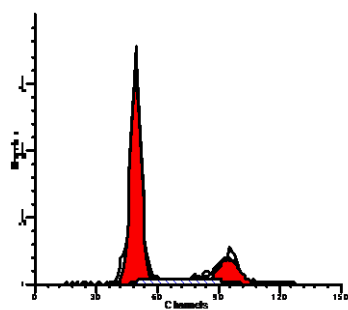
Fibroblast Control



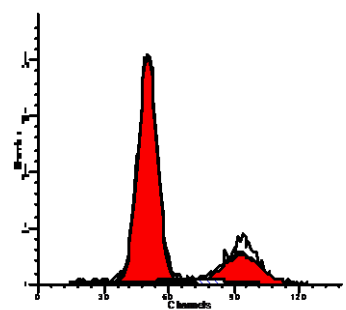
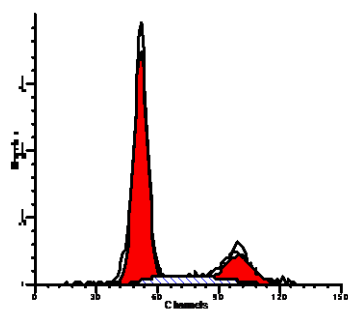
Fibroblast + SP-110



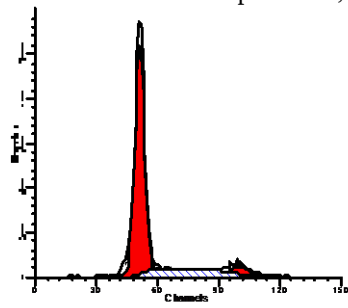
Fibroblast + SP-110-5M2



Fibroblast + SP-141



Fibroblasts + Camptothecin, 72 h



Fibroblasts + Adriamycin 72h

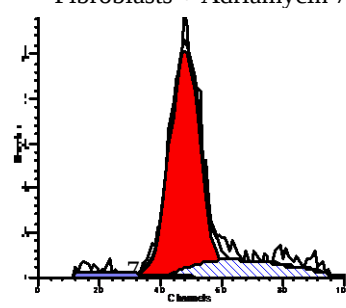


Figure S1. The effects of various compounds on the cell cycles of different cancer cell lines and normal human fibroblast cell line. Cells were treated with or without 10 μ M compound. G0/G1 and G2/M phases cell populations are represented by left and right red peaks, respectively. The S phase population is in between the G0/G1 and the G2/M phases. The sub-G0/G1 cyan peak indicates the apoptotic cell population. Blue regions represent debris.