

Electronic Supporting Information

Synergism of metabolic modulators Bet-CA and LDCA: A rational combinatorial approach to selectively combat cancer associated hallmark traits

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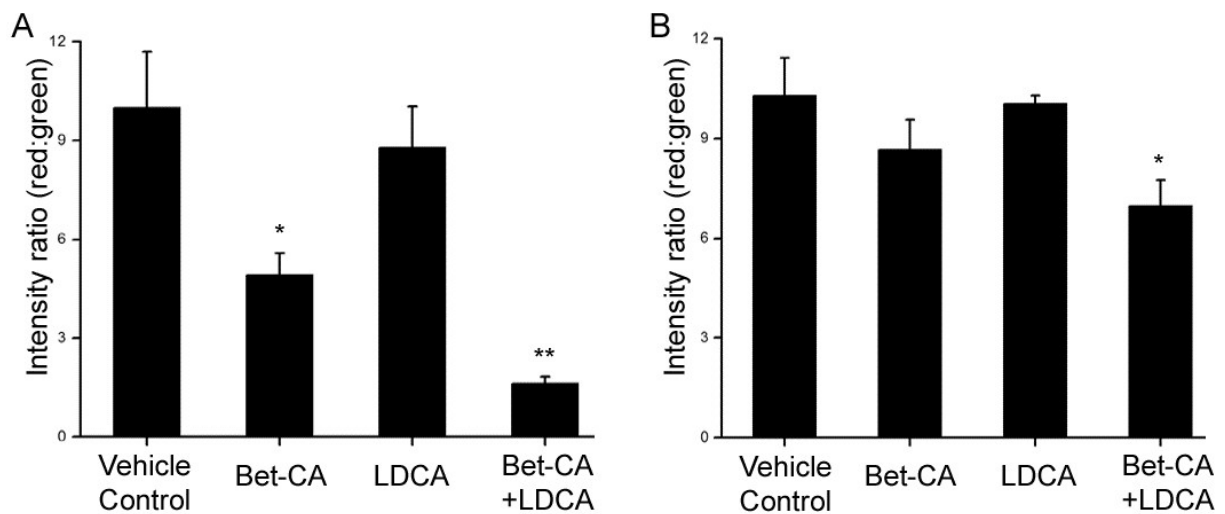


Fig. S1. Combination treatment selectively alters mitochondrial hyperpolarization. Graph demonstrates comparative quantification of red: green fluorescence intensity ratio in combination of 10 μ M Bet-CA and 20 μ M LDCA treated (A) B16-F10 and (B) WI-38 cells after 16 h. ** $p < 0.01$, * $p < 0.05$.

In all panels error bars represent mean \pm SD.

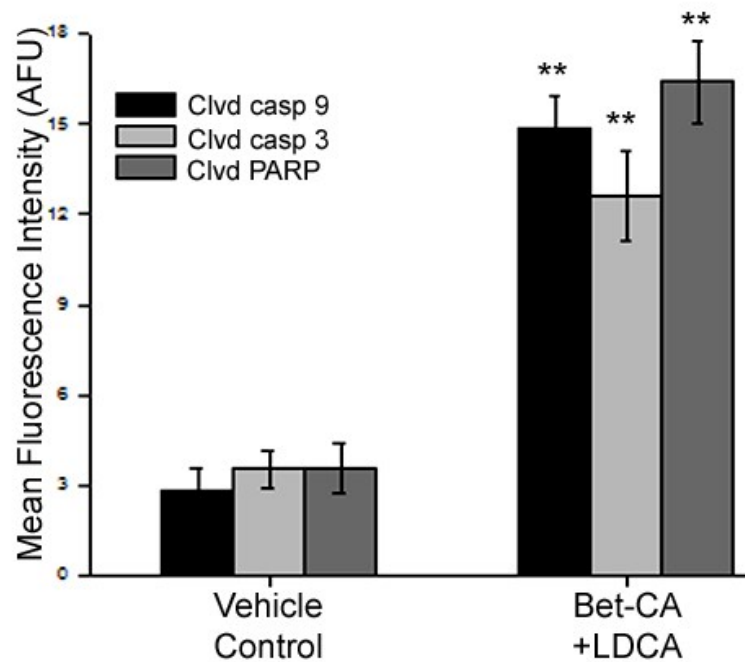


Fig. S2. Combination treatment elicits caspase mediated apoptosis. Graph represents quantitative determination of cleaved casp-9/3 and PARP levels in vehicle control and 10 μ M Bet-CA and 20 μ M LDCA combination treated sets. ** $p < 0.01$.

Error bars represent mean \pm SD.

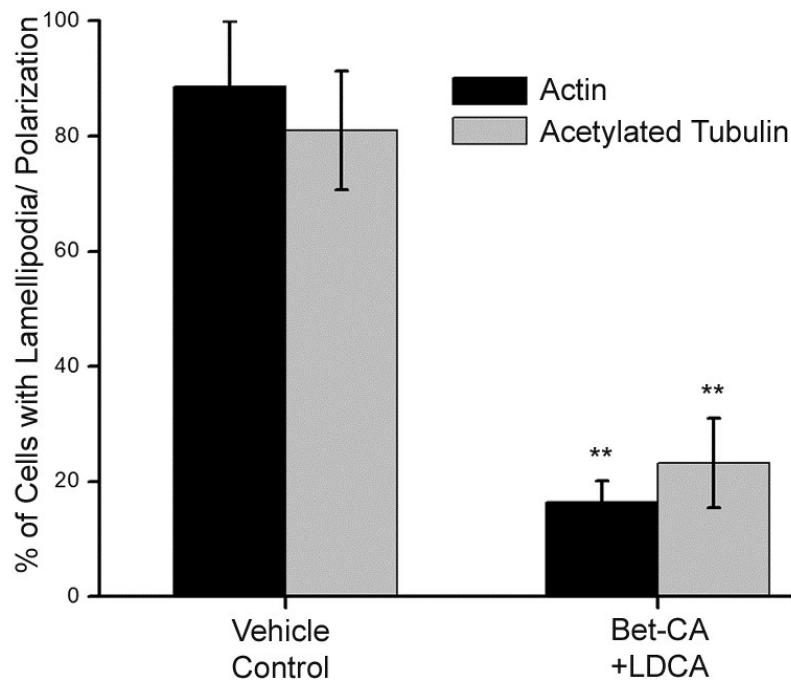


Fig. S3. Bet-CA and LDCA treatment alters cytoskeletal remodeling. Cells with actin ruffles and polarization have been quantified for vehicle control and 10 μ M Bet-CA and 20 μ M LDCA combination treated sets, analyzed and graphically represented. ** $p < 0.01$. Error bars represent mean \pm SD.

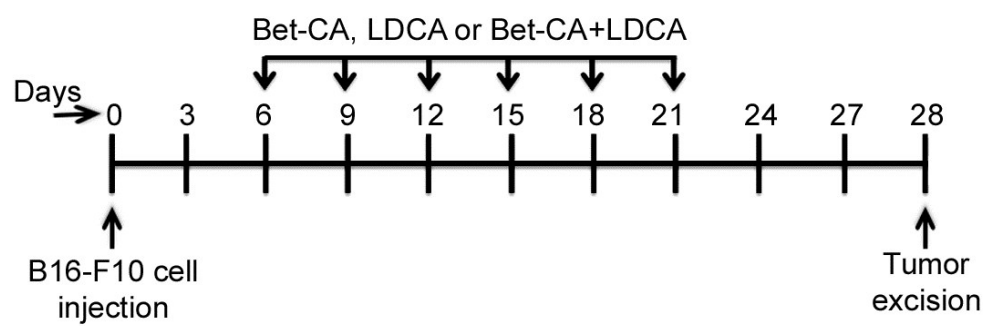


Fig. S4. Outline of the dosing schedule used in B16-F10 mouse syngeneic melanoma model.

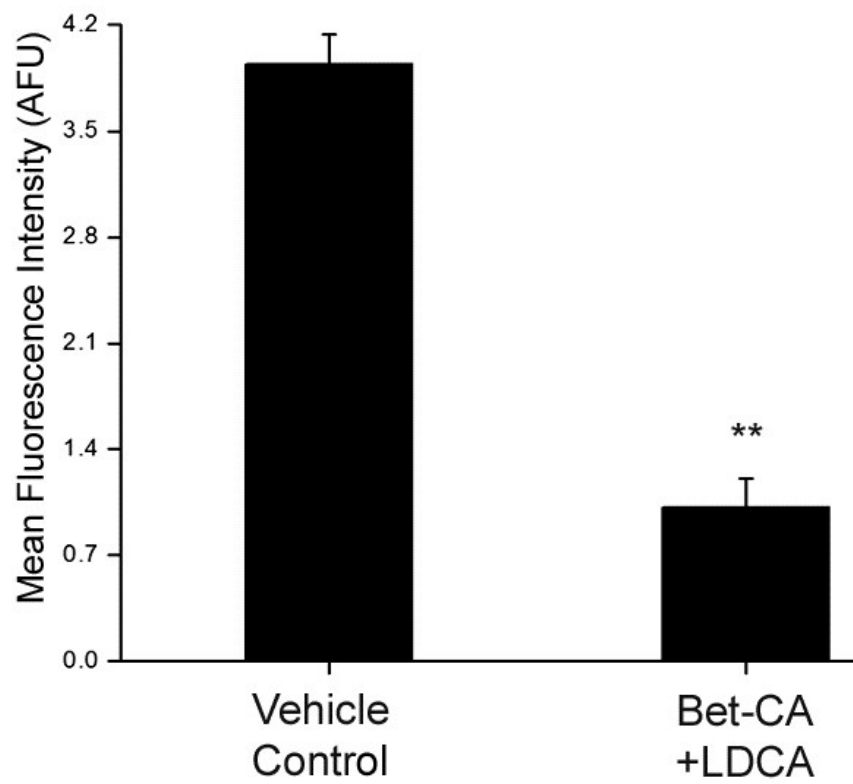


Fig. S5. Effect of 1 mg/kg Bet-CA and 2 mg/kg LDCA combination treatment on tumor associated neo-vasculature formation. Graph represents quantification of lectin signal intensity.

**p < 0.01.

Error bars represent mean \pm SD.

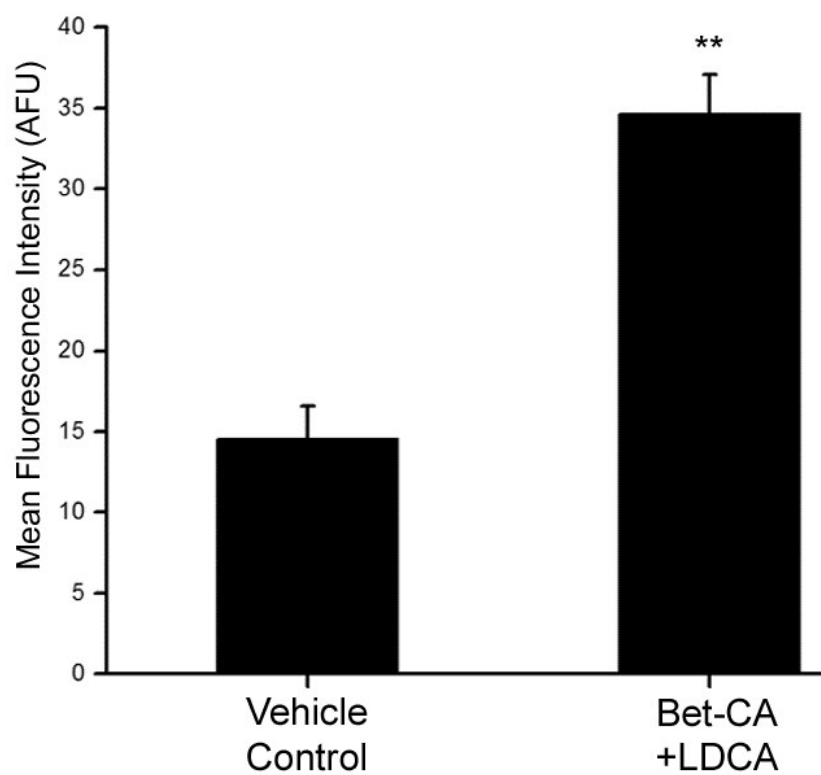


Fig. S6. Graph represents quantitative estimation of ROS generation following 1 mg/kg Bet-CA and 2 mg/kg LDCA combination treatment *in vivo*. **p < 0.01.

Error bars represent mean \pm SD.