

S31-5 Approaches to cancer cells based on natural products

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We are searching bioactive natural compounds and synthetic compounds bearing scaffold of natural product. Three cores have been set for the search, 1) compounds (isolation and synthesis), 2) cell based assay, 3) protein based assay. By using these three cores, we approached to cancer cells. The hedgehog or Wnt signaling inhibitors were found from natural products. Synthetic derivatives of melumin A, B showed Wnt signaling inhibition. We also synthesized fuligocandin B and its derivatives for TRAIL resistance overcoming compounds.