Novel Apoptosis-Inducing Constructs for Use against Carcinomas

Tulane University is actively seeking companies interested in commercializing novel constructs which effectively induce apoptosis in cancer cells. The novel approach employs two caspases to achieve a synergistic effect, resulting in a more substantial level of cell death in the targeted cancer cells.

Applications

Provides effective initiation of the apoptosis cascade in cancer cells that overexpress cyclooxygenase-2 (Cox-2), including cancers of the colon, prostate, bladder, stomach, and esophagus, among others.

Advantages

Inducing apoptosis has proven to be an effective anti-cancer treatment with other approaches. The advantages of inducing apoptosis include the packaging and phagocytosis of degradation products and an extremely low toxicity profile.

Technology

This technology has been tested extensively in vitro, with results strongly supporting the anti-cancer applications. Animal tests are in development, as is a human trial. Laboratory work is ongoing to produce more effective species of these constructs.

United States patent application has been allowed with claims covering the most promising embodiment of the technology.

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