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# Brachyury-expressing Yeast Vaccine GI-6301

National Cancer Institute

## Source

National Cancer Institute. *Brachyury-expressing Yeast Vaccine GI-6301*. NCI Thesaurus. Code C106267.

A cancer vaccine composed of a heat-killed, recombinant form of the yeast *Saccharomyces cerevisiae* that is genetically modified to express the transcription factor brachyury protein, with potential antineoplastic activity. Upon subcutaneous administration, the brachyury-expressing yeast vaccine GI-6301 is recognized by dendritic cells, processed, and presented by Class I and II MHC molecules on the dendritic cell surface. This elicits a targeted CD4+ and CD8+ T-lymphocyte-mediated immune response. This process kills brachyury-expressing tumor cells. Brachyury is overexpressed in a variety of tumor types and plays an important role in cancer progression and metastasis.