

[Open Peer Review on Qeios](#)

Allogeneic GM-CSF-secreting Lethally Irradiated Pancreatic Tumor Cell Vaccine

National Cancer Institute

Source

National Cancer Institute. *Allogeneic GM-CSF-secreting Lethally Irradiated Pancreatic Tumor Cell Vaccine*. NCI Thesaurus. Code C153334.

An allogeneic tumor vaccine composed of lethally irradiated allogeneic pancreatic tumor cells that are genetically modified to secrete the immunostimulatory cytokine granulocyte-macrophage colony-stimulating factor (GM-CSF), with potential immunostimulating and antineoplastic activities. Upon intradermal injection, allogeneic GM-CSF-secreting lethally irradiated pancreatic tumor cell vaccine secretes GM-CSF at the injection site. In turn, GM-CSF may stimulate the body's immune system against tumor cells by attracting and enhancing the activation of antigen-presenting cells (APCs), such as dendritic cells (DCs). This promotes antigen presentation to T-lymphocytes and induces a cytotoxic T-lymphocyte (CTL) response against the pancreatic tumor cells expressing the pancreatic tumor-associated antigens (TAAs).