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Cancer immunotherapy for pancreatic cancer utilizing-α-gal epitope/natural anti-Gal antibody reaction

Masahiro Tanemura, Eiji Miyoshi, Hiroaki Nagano, Hidetoshi Eguchi, Katsuyoshi Matsunami, Kiyomi Taniyama, Nobutaka Hatanaka, Hiroki Akamatsu, Masaki Mori and Yuichiro Doki

### Abstract

Pancreatic ductal adenocarcinoma (PDAC) has the poorest prognosis of all malignancies and is largely resistant to standard therapy. Novel treatments against PDAC are desperately needed. Anti-Gal is the most abundant natural antibody in





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IFC McKenzie, YQ Li, K Patton, AD Thall... - ..., 1998 - journals.lww.com

... that receive xenografts of vascularized organs (kidney, heart, liver, lung, or **pancreas**) from pigs ...

C' deposition was detected **using** a sheep anti-rat C3 polyclonal antiserum (The Binding Site ...

An enzyme-linked immunosorbent assay (ELISA) **utilizing** a plate coated with Gal $\alpha$ (1,3 ...

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... safety of these recombinant products.(10, 11) The mammalian cell lines **utilized** for production ...

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TAA epitopes and show limited immunogenicity when used as vaccines for **cancer** patients

(Marchand ... which bind to surface TAA molecules present on the target **tumor** cells, facilitating ...