



Title of Invention

PI : Kai-Wen Huang Associate Professor
Graduate Institute of Clinical Medicine,
National Taiwan University College of Medicine.

Experience:

1. Attending Staff in Department of Surgery, National Taiwan University Hospital.
2. Staff Fellow in Division of Surgical Oncology, Department of Surgery, Nagoya University Graduate School of Medicine, Nagoya, Japan.
3. Staff Fellow in Hepato-Biliary-Pancreatic Surgery Division, Artificial Organ and Transplantation Division, Department of Surgery, Graduate School of Medicine, University of Tokyo , Tokyo, Japan.
4. Associate Professor in Department of Surgery, National Taiwan University Hospital, Taipei, Taiwan.

Market Needs:

For patients with Hepatocellular carcinoma (HCC), traditional surgical resection is limited. The immunotherapy may be an effective therapy for HCC . There is a high incidence of HCC worldwide. Numerous medical treatments for HCC are needed, especially in Asia.

Our Technology:

- (1) To use cytokines and antiangiogenic factors were recombinant into Adenoviruses.
- (2) Inject the recombinant adenoviruses into organism, cytokine-based gene therapy increased the amount of lymphocytes infiltrating the tumors, and antiangiogenesis -based gene therapy reduced microvessel density in the tumors. Mixture type of gene therapy strategy was more effective than immunotherapy alone for the treatment of large tumors.

Strength:

For patients with HCC, surgical resection is limited when tumors are large and multifocal. So we develop the gene therapy to regress tumors. Treatment of cellular proliferative disorders has proved effective in HCC models.

Competing Products:

- (1) MODIFIED NUCLEOSIDES FOR THE TREATMENT OF VIRAL INFECTIONS AND ABNORMAL CELLULAR PROLIFERATION (I293306)

Intellectual Properties:

- (1) This technology already had the patent in Taiwan. (I359030)
- (2) Our team had research experiences for several decades and also clinical experiences. PI Kai-Wen Huang is also a professional surgeon of Hepato-Biliary Surgery territory.

Contact (do not need to fill out):

An interesting **photo** related to your technology
(be careful not to disclose key technology)

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