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These features make the **liver** an attractive **target** for **gene therapeutic** ... This strategy has been advanced by **the development** of **hydrodynamic** tail of the low-density lipoprotein receptor in vivo using **genomic DNA mini gene constructs**



Name of Journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 28546

Manuscript Type: THERAPEUTIC ADVANCES

Liver-targeted hydrodynamic gene therapy: Recent advances in the technique

Yokoo T *et al.* Liver-targeted gene therapy

Takeshi Yokoo, Kenya Kamimura, Hiroyuki Abe, Yuji Kobayashi, Tsutomu Kanefuji, Kohei Ogawa, Ryo Goto, Masafumi Oda, Takeshi Suda, Shuji Terai

Abstract

One of the major research focuses in the field of gene therapy is the development of clinically applicable, safe, and effective gene-delivery methods. Since the first case of human gene therapy was performed in 1990, a number of

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... a decade, this technique has gained wide acceptance as a tool for gene therapy studies, ...

Hydrodynamic gene delivery was developed based on advances in our Table 2 summarizes the results of recent publications reporting the use of Liver-targeted gene therapy by SV40-based vectors using the hydrodynamic ...

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The advancement of nucleic acid-based therapies ... efforts in recent years have been intensified toward the development of targeted gene ... Liver-targeted gene therapy (LTGT) can be used to