

Basic study for gene therapy by

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2002 Fiscal Year Final Research Report Summary

Basic study for gene therapy by

Research Project

Project/Area Number

13671222

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

General surgery

Research Institution

Kanazawa University

Principal Investigator

OHTAKE Hiroshi Kanazawa University, School of Medicine, Research Assistant, 医学部附属病院, 助手 (60283131)

Co-Investigator(Kenkyū-buntansha)

URAYAMA Hiroshi Kurobe Shimin Hospital, manager, 血管外科, 部長 (40151948)

WATANABE Go Kanazawa University, Post-graduated School of Medicine, Professor, 大学院・医学系研究科, 教授 (60242492)

Project Period (FY)

2001 - 2002

Keywords

Anastmotic stenosis / Patelet derived growth factor / Artificial graft

Research Abstract

[Purpose]As a factor of anastomotic stricture after bypass surgery using an artificial graft, involvement of platelet-derived growth factor beta : PDGF beta chain, has been reported. PDGF beta chain is a powerful cell growth factor for smooth muscle cells, and such cells at the anastomotic site have been reported to show high-level expression of PDGF beta chain receptor. The purpose of this study was to clarify the effect to avoid stricture, through gene introduction of the extracellular region of receptor EX, which inhibits intimal proliferation, into the anastomotic site.

[Subjects and method]We grafted expanded polytetrafluoroethylene artificial blood vessels, three millimeters in diameter, to rat aorta.

Experiment 1.We administered a replication-deficient recombinant adenovirus containing the E.coli LacZ gene(AxLacZ), at levels of 1×10^8 , 1×10^9 , 1×10^{10} , and 1×10^{11} pfu/ml, into the anastomotic blood vessels, (1)from the adventitial side, and (2)from the lumen. Two weeks after th ... More

Research Products (4 results)

All Other
All Publications

[Publications] Kaito K, Urayama H, Watanabe G.: "Doxycycline treatment in a model of early abdominal aortic aneurysm"Surg Today.. 36(6). 426-433 (2003) ▼

[Publications] Kosugi I, Urayama H, Kasashima F, Ohtake H, Watanabe Y: "Matrix metalloproteinase-9 and urokinase-type plasminogen activator in varicose veins."Ann Vase Surg.. 17(3). 234-238 (2003) ▼

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