神経移植の核医学的評価に関する基礎的研究

著者	森 厚文
著者別表示	Mori Hirofumi
雑誌名	平成9(1997)年度 科学研究費補助金 基盤研究(C) 研究成果報告書概要
巻	1996-1997
ページ	2p.
発行年	1999-03-15
URL	http://doi.org/10.24517/00056878

1997 Fiscal Year Final Research Report Summary

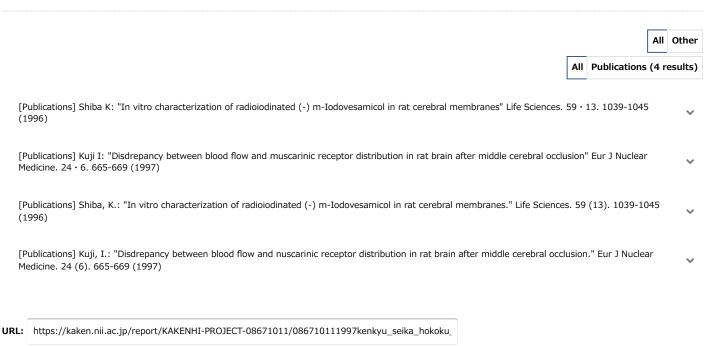
Fundamental Study on Assessment of Neurotransplantation Using Nuclear Medicine Imaging

Research Project

Positive Marchael Marchael
Project/Area Number
08671011
Research Category
Grant-in-Aid for Scientific Research (C)
Allocation Type
Single-year Grants
Section
一般
Research Field
Radiation science
Research Institution
KANAZAWA UNIVERSITY
Principal Investigator
MORI Hirofumi Kanazawa University, Radioisotope Center, Professor, アイソトープ総合センター, 教授 (90019604)
Co-Investigator(Kenkyū-buntansha)
TSJI Siro Kanazawa University, School of Medicine, Associate Professor, 医学部, 助教授 (70227388) SHIBA Kazuhiro Kanazawa University, Radioisotope Center, Assistant, アイソトーブ総合センター, 助手 (40143929)
Project Period (FY)
1996 - 1997
Keywords
Alzheimer's disease / Lesion of Nucleus Basalis Magnocellularis / Acetylcholine / Receptor / Neurotransplantation / Transporter
Research Abstract

Alzheimer's disease is one of most troublesome problems encountered in the elderly population. One proposed hypothesis is that a deficit in cholinergic neurotransmission in Alzheimer's disease underlies this serious symptom of the disease. Cholinergic denervation rat model by producing an unilateral lesion of nuleus basalis magnocellularis (NBM) are reported to a model of cognitive deficits, one of instructive models of Alzheimer's disease (AD). The neurotransplantation is now promising as an effective strategy for functional repair in a variety of neural systems in disorders such as Parkinson's disease. In this study autotransplantation of vagal ganglion was performed to NBM lesioned rats. The effects of cholinergic grafts on cholinergic systems evaluated by autoradiographic images in duration of 1,2 and 4 weeks after surgery. Cerebral blood flow (CBF), muscarinic acetylcholine receptor (mAChR), m1 and m2 subtype of AChR-mRNA images were obtained using 99mTc-hexamethyl-propyleneamine … More

Research Products (4 results)



Published: 1999-03-15