Fundamental Study on Assessment of Neurotransplantation Using Nuclear Medicine Imaging

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1997 Fiscal Year Final Research Report Summary

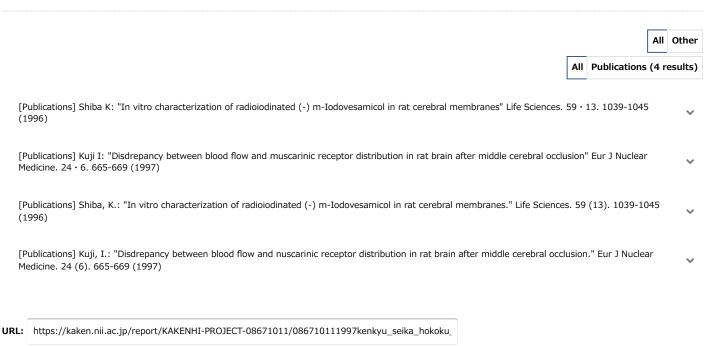
Fundamental Study on Assessment of Neurotransplantation Using Nuclear Medicine Imaging

Research Project

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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
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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)



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