

# Basic research for olfactory nerve transplantation in mice

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# 2001 Fiscal Year Final Research Report Summary

## Basic research for olfactory nerve transplantation in mice

Research Project

### Project/Area Number

10671586

### Research Category

Grant-in-Aid for Scientific Research (C)

### Allocation Type

Single-year Grants

### Section

一般

### Research Field

Otorhinolaryngology

### Research Institution

Kanazawa University

### Principal Investigator

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### Project Period (FY)

1998 - 2000

### Keywords

transplantation / olfactory neuron / immunohistochemistry

### Research Abstract

Objective: To develop a new treatment for olfactory disturbance transplantation of olfactory epithelium attempted to mice. Study design: Olfactory mucosa pick off donor mouse was inserted into nasal cavity of recipient mouse. Varied conditioned tissues were used for donor (ex, adult or in matured, whole or sliced mucosa, extract of basal cells). Recipient mouse was allowed to survive for 7 to 28days. An immunohistochemical analysis of transplanted tissue was done using both anti protein gene product 9.5 and olfactory marker protein antibody. Results: There were no survived olfactory neuron in recipient's nasal cavity. It is suspected that inflammation or rejection for foreign body inhibited the survive of transplanted tissue.

# Research Products (10 results)

All	Other
All	Publications

- [Publications] 三輪高喜他: "The role of nerve growth factor in the olfactory system"Microscopy Research and Teckinigue. (印刷中). (2002) ▼
- [Publications] 三輪高喜他: "Impact of olfactory impairment quality of life and disability"Arch. Otolaryngol. Head Neck Surg.. 127. 497-503 (2001) ▼
- [Publications] 三輪高喜他: "TrkA expression in mouse olfactory tract following anatomy of olfactory nerv"Acta Otolaryngol. Suppl. 539. 79-82 (1998) ▼
- [Publications] 三輪高喜他: "鼻閉と嗅覚障害"JOHNS. 16. 1561-1565 (2000) ▼
- [Publications] 三輪高喜他: "嗅覚障害にステロイド以外の有効な治療法はあるか"JOHNS. 16. 781-784 (2000) ▼
- [Publications] 西村俊郎他: "Glucocorticoid enhances Na<sup>+</sup>/K<sup>+</sup>ATpase mRNA expression in rat olfactory mucosa during regeneration"Chemical Senses. 27. 13-22 (2002) ▼
- [Publications] Miwa T, Furukawa M, et al: "Impact of olfactory impairment on quality of life"Arch Otolaryngol head neck surg. 127. 497-503 (2001) ▼
- [Publications] Miwa T, Furukawa M, et al: "The role of nerve growth factor in the olfactory system"Microscopy Research and Technique. on printing. (2002) ▼
- [Publications] Miwa T, Furukawa M et al: "TrkA expression In mouse olfactory tract following axotomy of olfactory nerve"Acta Otolaryngol. Suppl. 539. 79-82 (1998) ▼
- [Publications] Nishimura T, Miwa T, Furukawa M et al: "Glucocorticoid enhances Na/K ATPase mRNA expression in rat olfactory mucosa during regeneration"Chemical Senses. 27. 13-22 (2002) ▼

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