

# Studies on the pathogenesis of the disturbed integration of functions in both hemispheres of the functional psychoses

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# 1991 Fiscal Year Final Research Report Summary

## Studies on the pathogenesis of the disturbed integration of functions in both hemispheres of the functional psychoses

Research Project

### Project/Area Number

01304040

### Research Category

Grant-in-Aid for Co-operative Research (A)

### Allocation Type

Single-year Grants

### Research Field

Psychiatric science

### Research Institution

Kanazawa University

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### Project Period (FY)

1989 – 1990

### Keywords

Functional psychosis / Disturbed integration of functions in both hemispheres / Cognition disorder / Event-related potential / Regional cerebral blood flow / Continent negative variation / Neuroimaging / Eye movements

### Research Abstract

The etiology of the functional psychoses such as schizophrenia and mood disorder is not clear. It is assumed that there is the disturbed integration of function in both hemispheres in the functional psychoses. We have tried this research for the purpose to clear the etiology of the functional psychoses by

using the neuropsychological, neurophysiological, and neuroimaging methods.

Yamaguchi and Kurachi studied the relationship between frontal blood flow and clinical findings in schizophrenic patients. Compared with the normal controls, the patients showed a reduced relative frontal flow in the left hemisphere. Sato and Kojima investigated the eye fixations and movements during maze test in schizophrenia. Yamauchi investigated an asymmetry of EEG background activity in schizophrenia. Niwa and Machiyama studied the auditory event-related potentials in schizophrenia. Takahashii investigated the CNV in depression. Hozaki and Torn performed neuropsychological investigations on chronic schizophrenia from aspects of its frontal function.

## Research Products (17 results)

All Other

All Publications (17 results)

- [Publications] 鳥居 方策,北本 福美: "痴呆の神経心理学—特に言語障害を中心に—" 老年期痴呆研究会誌. 3. 21-26 (1989) ▼
- [Publications] 佐藤 光源: "精神分裂病の再発をめぐる諸問題" 日精協雑誌. 9. 12-19 (1990) ▼
- [Publications] 山口 成良: "ベンゾジアゼピン依存" 神経精神薬理. 13. 90-94 (1991) ▼
- [Publications] 倉知 正佳,湯浅 悟,鈴木 道雄: "精神分裂病と画像診断—局所脳血流を中心に—" 精神医学. 32. 609-617 (1990) ▼
- [Publications] 寺崎 大洋,大久保 善郎,松浦 雅人,小島 卓也: "精神分裂病患者脳波の定量的研究—局所定常自己回帰モデルを用いた定常性の検討—" 精神薬療基金研究年報. 21. 264-269 (1990) ▼
- [Publications] 丹羽 信一: "分裂病の病態理解への精神生理学的接近" 精神医学. 32. 591-596 (1990) ▼
- [Publications] 山口 成良,越野 好文: "誘発電位の基礎と臨床" 創造出版,東京, 1-68 (1990) ▼
- [Publications] 地引 逸亀,山口 成良: "てんかん学の進歩NO.2—1991" 岩崎学術出版社,東京, 181-197 (1991) ▼
- [Publications] Niwa, S.: "Psychophysiological understanding of assumed neuronal basis of schizophrenia : Expectation for future possibilities." Seishin Igaku (Clinical Psychiatry). 32(6). 591-596 (1990) ▼
- [Publications] Fukuda, M., Niwa, s. -I., et al.: "Psychological intervention can partly alter P300-amplitude abnormalities in schizophrenics." Jpn J Psychiatr Neurol. 43(4). 633-638 (1989) ▼
- [Publications] Fukuda, M., Niwa, s. -I., et al.: "Psychological manipulation of P300 amplitude abnormalities in schizophrenics : Reconfirmation and extension of our previous result." ANN. Bull. RILP. 24. 243-256 (1990) ▼
- [Publications] Kurachi, M., et al.: "Schizophrenia and brain imaging." Seishin Igaku (Clinical Psychiatry). 32(6). 609-617 (1990) ▼
- [Publications] Kurachi, M.: "Biopsychological regions hitherto called endogenous." Japanese Journal of Psychopathology. 11(3). 197-204 (1990) ▼
- [Publications] Yuasa, S., Kadono, Y., Tsunoda, M., Matsui, M., Emori, K., Minabe, Y., Fujii, T., and Kurachi, M.: "SPECT finding in schizophrenia : clinical correlates and the effect of neuroleptic treatment." Japanese Journal of Clinical Psychiatry. 19(12). 1840-1848 (1990) ▼
- [Publications] Terasaki, O., Okubo, Y., Matsuura, M., and Kojima, T.: "A quantitative study on stationarity of EEGs of schizophrenics using locally stationary autoregressive model." Annual Report of the Pharmacopsychiatry Research Foundation. 21. 264-269 (1990) ▼
- [Publications] Torii, H. and Kitamoto, F.: "Neuropsychological features of dementia of the Alzheimer type, with special reference to dysphasia." Proceedings of the Annual Meeting of the Japanese Research Group on Senile Dementia. 3. 21-26 (1989) ▼
- [Publications] Jibiki, I. and Yamaguchi, N.: "Investigation of auditory brainstem responses and visual evoked potentials to pattern reversal stimulations in medicated schizophrenic patients." Jpn J EEG EMG. 18(4). 387-393 (1990) ▼

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