

学位論文審査結果の要旨

所 属	三重大学大学院医学系研究科 乙 生命医科学専攻 神経感覚医学講座 精神神経科学分野	氏 名	棚橋 俊介 <small>たなはし しゅんすけ</small>
審 査 委 員	主 査	野阪 哲哉	
	副 査	小谷 泰一	
	副 査	小川 朋子	

(学位論文審査結果の要旨)

Association of Serotonin Transporter Gene (5-HTTLPR/rs25531) Polymorphism with Comorbidities of Panic Disorder

【主論文審査結果の要旨】

著者らは論文において下記を述べている。

Introduction: Panic disorder (PD) has many comorbidities such as depression, bipolar disorder (BPD), and agoraphobia (AG). PD is a moderately heritable anxiety disorder whose pathogenesis is not well understood. Recently, a tri-allelic serotonin transporter (5-HTTLPR/rs25531) polymorphism was reported to be more sensitive to personality traits compared to the bi-allelic 5-HTTLPR polymorphism. We hypothesized that the 5-HTTLPR/rs25531 polymorphism may lead to a pathological anxious state depending on the presence or absence of a comorbidity in PD. Methods: In this study, we investigated the relationship between comorbidities in PD and tri-allelic 5-HTTLPR polymorphisms. A total of 515 patients with PD (148 males, 367 females) were genotyped, and the Revised NEO Personality Inventory as well as anxiety-related psychological tests were administered. Depression, BPD, and AG were diagnosed as comorbidities. Results: For the tri-allele 5-HTTLPR genotype, a significant interaction effect was found between openness to experience and comorbid depression. Examination of the interaction between AG and the tri-allelic 5-HTTLPR genotype revealed that L' allele carriers are associated with higher trait anxiety than the S'S' genotype group in PD without AG. Conclusion: Some anxiety and personality traits can be characterized by the tri-allelic gene effect of 5-HTTLPR. These results suggest that tri-allelic 5-HTTLPR genotypes have genetic effects on the presence of comorbidities of PD.

5-HTTLPR のトリアレル遺伝子多型が、パニック症における併存症の有無に関して、遺伝子効果を有することを示唆した論文であり、学術上極めて有益であり、学位論文として価値あるものと認めた。

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Shunsuke Tanahashi Hisashi Tanii Yoshiaki Konishi Takeshi Otowa
Tsukasa Sasaki Mamoru Tochigi Yuji Okazaki Hisanobu Kaiya
Motohiro Okada