平成 14 年度

産業医科大学　精神医学教室　新開　隆弘

留学先 Neurogenetics Section, Centre for Addiction and Mental Health, Department of Psychiatry, University of Toronto, Toronto, Canada

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留学目的・研究テーマ：

「統合失調症の病因、治療反応性および副作用出現に関する薬理遺伝学的研究」をテーマに、この分野で実績のあるトロント大学の James L. Kennedy 教授の教室にて研究を行った。

研究結果：

1. Shinkai T, De Luca V, Hwang R, Müller DJ, Lanktree M, Zai G, Shaikh S, Wong G, Sicard T, Potapova N, Trakalo J, King N, Matsumoto C, Hori H, Wong AHC, Ohmori O, Macciardi F, Nakamura J, Kennedy JL. Association analyses of the DAOA/G30 and D-amino-acid oxidase (DAAO) genes in schizophrenia: further evidence for a role in schizophrenia. Neuromolecular Med (in press).
2. Shinkai T, Muller DJ, De Luca V, Shaikh S, Matsumoto C, Hwang R, King N, Trakalo J, Potapova N, Zai G, Hori H, Ohmori O, Meltzer HY, Nakamura J, Kennedy JL.Genetic association analysis of the glutathione peroxidase (GPX1) gene polymorphism (Pro197Leu) with tardive dyskinesia. Psychiatry Res. 2006; 141: 123-128.
3. Hwang R, Shinkai T, Deluca V, Macciardi F, Potkin S, Meltzer HY, Kennedy JL. Dopamine D2 receptor gene variants and quantitative measures of positive and negative symptom response following clozapine treatment. Eur Neuropsychopharmacol. 2006; 16: 248-259.
4. Shinkai T, De Luca V, Hwang R, Matsumoto C, Hori H, Ohmori O, Remington G, Meltzer HY, Lieberman JA, Potkin SG, Nakamura J, Kennedy JL. Association study between a functional glutathione S-transferase (GSTP1) gene polymorphism (Ile105Val) and tardive dyskinesia. Neurosci Lett. 2005; 388: 116-120.
5. Matsumoto C, Shinkai T, De Luca V, Hwang R, Hori H, Lanktree M, Ohmori O, Kennedy JL, Nakamura J. Association between three functional polymorphisms of the dopamine D2 receptor gene and polydipsia in schizophrenia. Int J Neuropsychopharmacol. 2005; 8: 245-253.
6. Shinkai T, De Luca V, Zai G, Shaikh S, Matsumoto C, Arnold PD, Hwang R, King N, Trakalo J, Potapova N, Wong G, Hori H, Wong AH, Ohmori O, Nakamura J, Kennedy JL. No association between the Pro197Leu polymorphism in the glutathione peroxidase (GPX1) gene and schizophrenia. Psychiatr Genet. 2004; 14: 177-180.
7. Shinkai T, Ohmori O, Matsumoto C, Hori H, Kennedy JL, Nakamura J. Genetic association analysis of neuronal nitric oxide synthase gene polymorphism with tardive dyskinesia. Neuromolecular Med. 2004; 5: 163-170.
8. Muller DJ, Shinkai T, De Luca V, Kennedy JL. Clinical implications of pharmacogenomics for tardive dyskinesia. Pharmacogenomics J. 2004; 4: 77-87.