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Blood miRNA profiles in the Korean individuals with internet gaming disorder**Yeun-Jun Chung¹, Minho Lee¹, Hyeyoung Cho¹, Seung Hyun Jung¹, Seon-Hee Yim¹, Sung-Min Cho¹, Ji-Won Chun¹, Soo-Hyun Paik², Ji Eun Lee², Jung-Seok Choi³ and Dai-Jin Kim¹**¹The Catholic University of Korea, Republic of Korea²Korea Institute of Science and Technology, Republic of Korea³Boramae Medical Center, Seoul, Republic of Korea

Addictive use of Internet and Internet-based games is not just a social phenomenon in some countries with extensive Internet access infrastructure, but a potential psychiatric disorder termed Internet gaming disorder (IGD). According to the epidemiological reports, prevalence rates of IGD in adolescents vary across diverse countries ranging from 0.8% to 26.7%. Especially, studies showed above 10% of prevalence rates in adolescents in many Asian countries such as South Korea, China, Taiwan, Hong Kong and Singapore. IGD is known to be associated with impairment in cognition, psycho-social relationship and daily life such as reductions in academic or occupational performances. IGD is now included in Section III (Conditions for Further Study) of the fifth revision of the Diagnostic and Statistical Manual of Mental Disorders (DSM-V). However, in spite of its clinico-social importance, little is known about the molecular genetic mechanism behind IGD. In this study, we aimed to identify IGD-associated miRNA markers by observing differentially expressed plasma miRNAs between the IGD and control groups and explored their biological implications.

Biography

Yeun-Jun Chung is a Professor of Medical Genomics at Catholic University of Korea, College of Medicine, Korea. Since he has completed his PhD in 1989, he has studied Genomics and Informatics. Now, he is a Director of Precision Medicine Research Center, Catholic Medical College. He has published more than 100 papers in reputed journals in diverse fields of medicine including cancer, complex disease, and neuropsychiatric disorders.

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