国際交流セミナー

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『Dynamic Chromatin Organization is the Fundamental basis of Functional Epigenomics: Implications in Diseases』

In all cells of living organisms GENES are present as DNA (Deoxy Ribonucleic Acid). But the gene sequence are not the functional genes. Genes are organized as nucleoprotein filament, called chromatin which are highly dynamic and are chemically modified to express/function in specific time and location. A large number of small RNAs also play critical role in precise gene expression. This phenomenon of beyond the gene sequence is termed as EPIGENETICS, which is environment, food (metabolism), and life style dependent. In this lecture, I shall discuss the phenomenon of epigenetics in the context of human health and diseases, with special emphasis on cancer and neurological disorders.

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