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Trends in diagnostic biochip development

Eiichiro Ichiishi

International University of Health and Welfare Hospital, Japan

Technological advancements in biochips for diagnosis and prevention lead to improved healthcare cost containment with a decreasing birth rate and an aging population. Biochips have been attracting attention as a tool for improving healthcare costs. There are technological, standardization-related, ethical and societal problems in biochip development. For biochip market expansion, in addition to technological problems, it is necessary to overcome social, institutional, marketing and economic problems all together. It is expected that the application of biochip technologies will facilitate not only 'super' early diagnosis of diseases and disease prevention based on the diagnosis, but also early treatment.

Biography

Eiichiro Ichiishi, MD, PhD graduated from medical department, Kyoto Prefectural University of Medicine in 1992. In 2007, he was promoted to professor at Japan Institute of Science and Technology (JAIST). He joined Tohoku University Bioengineering Research Organization (TUBERO) and the university's medical department as a visiting professor from 2007-2008. In 2010, he was appointed Professor in Internal Medicine at International University of Health and Welfare Hospital. He has published more than 106 papers in reputed journals (in English and Japanese) and serving as an editorial board member of repute.

ichiishi@xg7.so-net.ne.jp