

Abstract of Presentation

Note: This paper should be typed in “Times New Roman” of 12pt.

Presentation Title(Should be no more than 20 words):

Principle of NIID’s role for the control of infectious diseases in Asia

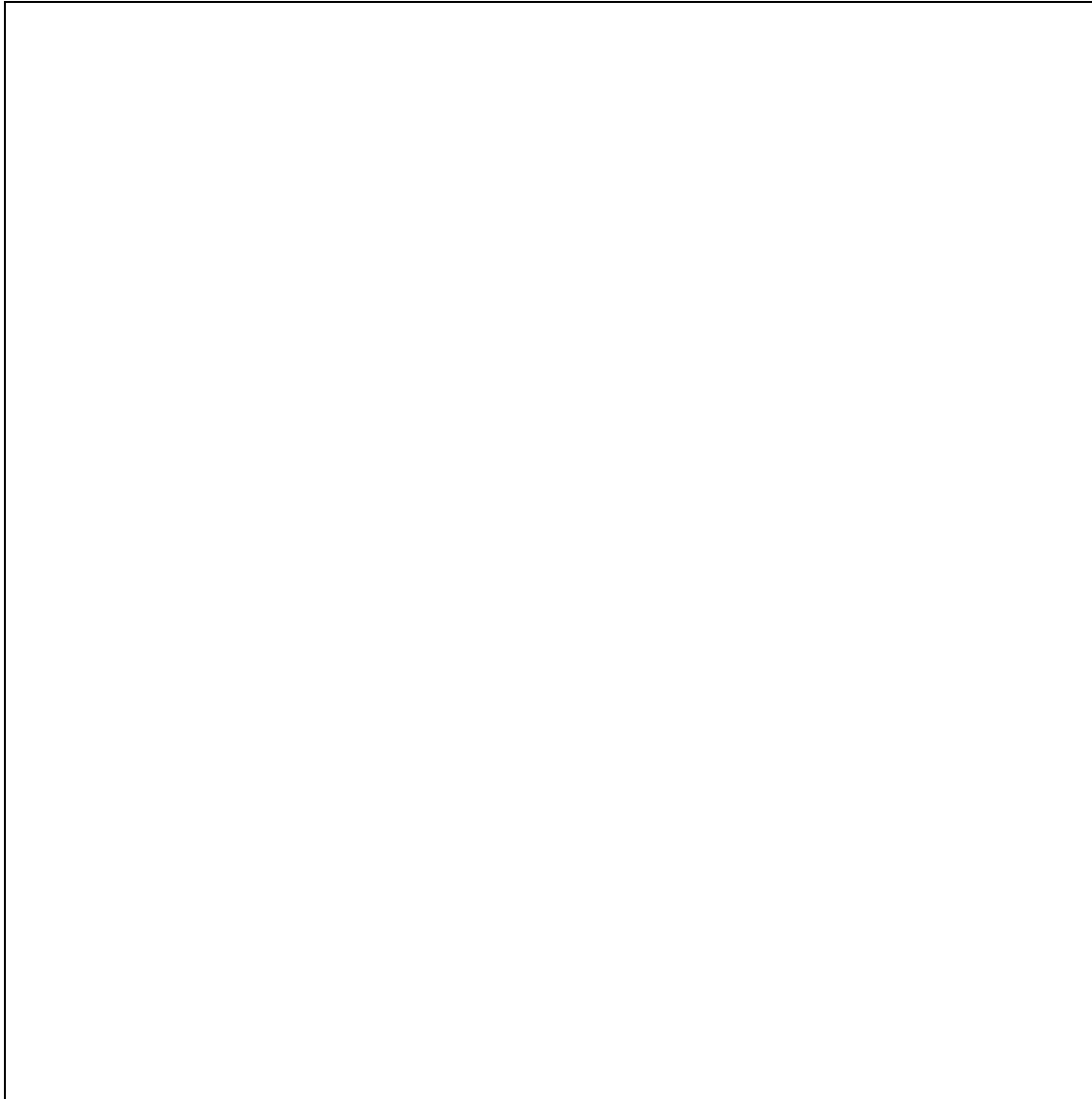
Abstract (Should be no more than 150 words):

To control infectious diseases, it is important to know the basic nature of pathogens. Recent development of molecular biological techniques enabled us to analyze pathogens in their genetic levels. However, to learn diseases, it is more important to analyze interactions of pathogens and cells, interactions of pathogens and tissues, interactions of pathogens and hosts (humans) and most importantly interactions of pathogens and human community. Pathogens usually change not only their genetic information in their individual levels, but population levels. Emergence and reemergence of new and old infectious diseases in recent years is a global threat.

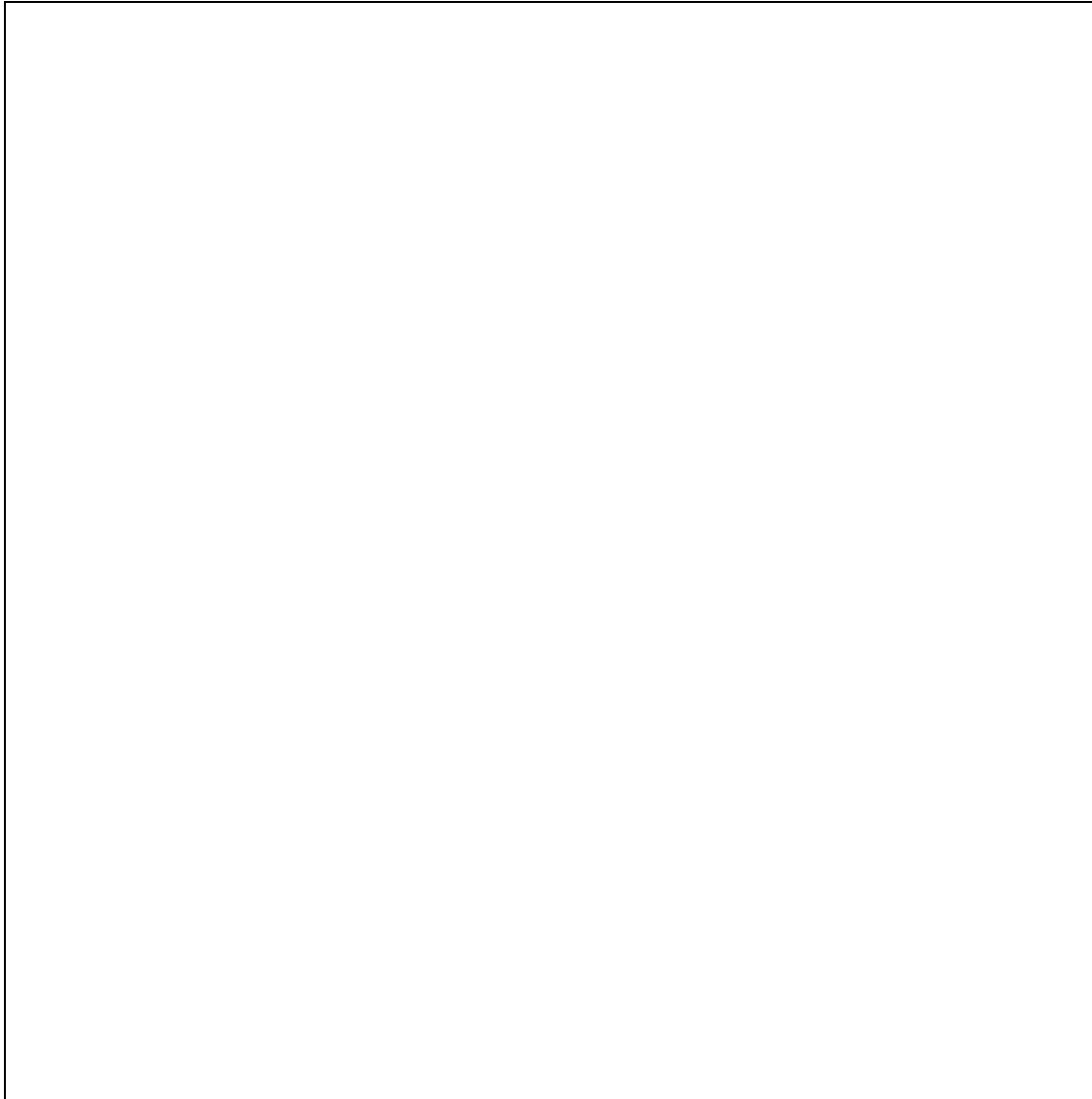
Pathogens do not discriminate borders of regions or nations. They discriminate sensitive hosts and freely attack them. Thus, international cooperation and sharing up-to-date information is essential for the control. NIID, which has responsibility to control infectious diseases in Japan as a national institute, also has to play a key role for the global control, particularly Asian region, of infectious diseases. It functions as regional, global reference laboratories, or collaborative centers.

In my talk, I will present three representative cases of viral disease control, poliomyelitis, hepatitis B and new influenza and discuss on the present problem of global control.

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