

Principal Researcher	Hiroshi Kida			Number of Researchers	8	
Research Institution • Department • Title	Professor, Graduate School of Veterinary Medicine, Hokkaido University			Location of Institution	Sapporo	
Title of Project	Studies on the ecology of influenza viruses for the control of pandemics					
Abstract of Research Project	<p>Influenza is a zoonosis distributing worldwide. The aim of this project is to clarify the ecology of influenza viruses for the prevention and control of pandemics in poultry, domestic animals, and humans. The outline of this project is as follows;</p> <ol style="list-style-type: none"> <li>1. Global surveillance of animal influenza to clarify the ecology of influenza viruses</li> <li>2. Systematic collection and supply of vaccine strain candidates and antigens for diagnosis</li> <li>3. Analyses of the interspecies transmission and molecular basis of pathogenicity of influenza viruses</li> <li>4. Development of safe and effective vaccine stimulating mucosal and systemic immunity</li> <li>5. Development of novel antiviral drugs</li> <li>6. Development of rapid methods for diagnosis at early stage of infection</li> </ol>					
References	<ul style="list-style-type: none"> <li>• Watanabe T, Watanabe S, <u>Kida H</u>, Kawaoka Y.: Influenza A virus with defective M2 ion channel activity as a live vaccine. <i>Virology</i> 299: 266-270, 2002.</li> <li>• Ninomiya A, Ogasawara K, Kajino K, Takada A, <u>Kida H</u>.: Intranasal administration of a synthetic peptide vaccine encapsulated in liposome together with an anti-CD40 antibody induces protective immunity against influenza A virus in mice. <i>Vaccine</i> 20: 3123-3129, 2002.</li> </ul>					
Term of Project	Fiscal years 2003-2006 . (4years)					
Budget Allocation (in thousand of yen)	FY2003	FY2004	FY2005	FY2006	FY2007	TOTAL
	35,400	14,700	14,700	14,400		79,200
Homepage Address	<a href="http://www.hokudai.ac.jp/veteri/">http://www.hokudai.ac.jp/veteri/</a>					