

Principal Researcher	Yutaka Kawakami			Number of Researchers	10	
Research Institution · Department · Title	Professor, Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine			Location of Institution	Shinjuku-ku, Tokyo	
Title of Project	Development of new diagnostic and immunotherapeutic methods for patients with cancers					
Abstract of Research Project	<p>In this project, as we have been conducting in our melanoma research, we will attempt to isolate tumor antigens such as cancer-testis antigens using various molecular biological and immunological techniques, including systematic gene expression analysis with DNA chip as well as cDNA expression cloning with T cells and antibodies obtained from patients. Using the identified tumor antigens, immune responses to tumor cells will be extensively analyzed in patients. It will finally be evaluated whether the identified antigens are useful for development of new diagnostic and immunotherapeutic methods for patients with gastroenterological cancers. This type of systematical research from basic to clinic has not been performed for cancers other than melanoma.</p>					
References	<p>1. Kawakami Y, et al. (8) Cloning of the gene coding for a shared human melanoma antigen recognized by autologous T cells infiltrating into tumor. Proc.Natl.Acad.Sci.USA., 91:3515-1519, 1994.</p> <p>2. Rosenberg SA, Kawakami Y. et al. (16) Immunologic and therapeutic evaluation of a synthetic peptide vaccine for the treatment of patients with metastatic melanoma. Nat. Med. 4:321-327, 1998.</p>					
Term of Project	Fiscal years 2002-2006. (5years)					
Budget Allocation (in thousand of yen)	FY2002	FY2003	FY2004	FY2005	FY2006	TOTAL
	23,000	16,600	14,900	14,900	14,900	84,300