

CRITICAL PATH ROADMAP DISCIPLINE(S)	PRIMARY SPECIES / TYPE	SPACE FLIGHT EXPERIMENT TITLE	NASA OBPR - TASK BOOK							
			Year Experiment Was Listed in Book							
			1995	1996	1997	1998	1999	2000	2001	2002
Immunology, Infection & Hematology; Cardiovascular Alterations	Animal	Avian Blood Formation in Space	1995	1996	1997	1998	1999			
Immunology, Infection & Hematology; Bone Loss	Animal	Bone Marrow Macrophage Differentiation in Space; Differentiation of Bone Marrow Macrophages in Space				1998	1999	2000	2001	2002
Immunology, Infection & Hematology	Animal	Calbindins and Apoptosis after Short-Term Space Flight							2001	
Immunology, Infection & Hematology	Animal	Effect of Spaceflight on Development of Immune Responses	1995	1996	1997	1998				
Immunology, Infection & Hematology	Animal	Immunology Spaceflight and Immune Responses of Rhesus Monkeys	1995	1996						
Immunology, Infection & Hematology	Cells	Effects of Microgravity on Lymphocyte Activation: Cell-Cell Interaction and Signaling	1995	1996	1997	1998				
Immunology, Infection & Hematology	Cells	Mechanisms of Gravity Sensing and Response in Hematopoietic Cells	1995	1996	1997	1998				
Immunology, Infection & Hematology	Cells	Role of the Interleukin-2 Receptor in Signal Transduction; Role of the Interleukin-2 Receptor in Signal Transduction and Gravisensing Threshold of T Lymphocytes STS-107 NAG2-1286						2000	2001	2002
Immunology, Infection & Hematology	Human	Assessment of Humoral Immune Function During Long Duration Space Flight	1995	1996	1997	1998	1999			
Immunology, Infection & Hematology; Clinical Capabilities	Human	Flight-Induced Changes in Immune Defenses			1997	1998	1999	2000	2001	2002
Immunology, Infection & Hematology	Human	Humoral Immunity	1995	1996	1997					
Immunology, Infection & Hematology; Clinical Capabilities	Human	Incidence of Latent Virus Shedding During Space Flight			1997	1998	1999	2000	2001	2002
Immunology, Infection & Hematology	Human	Peripheral Mononuclear Cells	1995	1996	1997					
Immunology, Infection & Hematology; Cardiovascular Alterations	Human	Red Blood Cell Mass and Survival	1995	1996						
Immunology, Infection & Hematology; Clinical Capabilities	Human	Space Flight-Induced Reactivation of Latent Epstein-Barr Virus					1999	2000	2001	2002
Immunology, Infection & Hematology; Clinical Capabilities	Human	Viral Reactivation	1995	1996	1997	1998				
Immunology, Infection & Hematology; Clinical Capabilities; Environmental Health	Microbe	A Comprehensive Characterization of Microorganisms and Allergens in Spacecraft Environment						2000	2001	2002
Immunology, Infection & Hematology; Clinical Capabilities; Environmental Health	Microbe	Bacterial Physiology and Virulence on Earth and in Microgravity				1998	1999	2000	2001	2002
Immunology, Infection & Hematology; Clinical Capabilities	Microbe	Effect of Spaceflight on Microbial Gene Expression and Virulence								2002
Immunology, Infection & Hematology; Environmental Health	Microbe	Effects of Microgravity on Microbial Physiology		1996	1997	1998	1999	2000	2001	2002
Immunology, Infection & Hematology; Advanced Life Support	Microbe	Microbial Interaction in the Mir Space Station Environment		1996	1997	1998	1999			
Immunology, Infection & Hematology; Environmental Health	Microbe	Microbiology	1995	1996						
Immunology, Infection & Hematology	Microbe	Novel Tissue Assemblies: Models for Enteric Pathogenesis								2002
Immunology, Infection & Hematology; Clinical Capabilities; Environmental Health	Microbe	Space Flight Effects on Fungal Growth, Metabolism and Sensitivity to Antifungal Agents; Space Flight Effects on Fungal Growth, Metabolism and Sensitivity to Antifungal Drugs			1997	N/A	1999	2000	2001	2002
Immunology, Infection & Hematology	Microbe	Streptococcus pneumoniae Gene Expression and Virulence Potential in the Space Environment					1999	2000	2001	2002
Immunology, Infection & Hematology	Plant	Effects of Microgravity on Pathogenesis and Defense Responses in Soybean Tissues		1996	1997	1998				