

CRITICAL PATH ROADMAP DISCIPLINE	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	
Cardiovascular Alterations	Animal	Arterial Remodeling and Functional Adaptations Induced by Microgravity						1999	2000	2001	2002
Cardiovascular Alterations; Immunology, Infection & Hematology	Animal	Avian Blood Formation in Space	1995	1996	1997	1998	1999				
Cardiovascular Alterations	Animal	Biochemical Assessment of Stress in Cardiac Tissue	1995								
Cardiovascular Alterations; Food & Nutrition	Animal	Ca ²⁺ Metabolism and Vascular Function After Space Flight	1995	1996	1997	1998					
Cardiovascular Alterations; Clinical Capabilities; Human Behavior & Performance	Animal	Effects of Circadian Rhythms on Decompression Outcome									2002
Cardiovascular Alterations; Muscle Alterations & Atrophy	Animal	Expression of Contractile Proteins in Microgravity	1995	1996	1997	1998	1999				
Cardiovascular Alterations; Muscle Alterations & Atrophy	Animal	Mitochondrial Changes in Muscle Following Space Flight (Martin)	1995								
Cardiovascular Alterations; Clinical Capabilities	Animal	Soluble Guanylyl Cyclase Knock-out Model									2002
Cardiovascular Alterations	Human	Adaptive Changes in Cardiovascular Control at μ G	1995	1996	1997	1998	1999				
Cardiovascular Alterations; Clinical Capabilities	Human	Assessment of Autonomic and Gastric Function During Spaceflight, Entry and Landing	1995	1996							
Cardiovascular Alterations	Human	Autonomic Mechanisms During Prolonged Weightlessness	1995	1996	1997	1998					
Cardiovascular Alterations; Neurovestibular Adaptation; Multi-system (Cross Risk) Alterations	Human	Autonomic Neurophysiology in Microgravity	1995	1996	1997	1998	1999	2000	2001	2002	
Cardiovascular Alterations; Multi-system (Cross Risk) Alterations	Human	Autonomic Neuroplasticity in Weightlessness	1995	1996	1997	1998	1999	2000			
Cardiovascular Alterations	Human	Cardiac Atrophy and Diastolic Dysfunction During and After Long Duration Spaceflight: Functional Consequences for Orthostatic Intolerance and Risk of Cardiac Arrhythmias							2000	2001	2002
Cardiovascular Alterations	Human	Cardiac Atrophy and Diastolic Dysfunction During and After Long Duration Spaceflight: Functional Consequences for Orthostatic Intolerance, Exercise Capacity, and Risk of Cardiac Arrhythmias								2001	2002
Cardiovascular Alterations	Human	Entry Monitoring									2002
Cardiovascular Alterations; Clinical Capabilities	Human	Evaluation of Thermoregulation During Long Duration Spaceflight	1995	1996	1997	1998	1999				
Cardiovascular Alterations; Clinical Capabilities	Human	Evaluation of Thermoregulation During Short-Duration Space Flight		1996	1997	1998	1999				
Cardiovascular Alterations	Human	Extended Studies of Pulmonary Function in Weightlessness	1995	1996	1997	1998					
Cardiovascular Alterations; Clinical Capabilities; Food & Nutrition	Human	Fluid and Electrolyte Homeostasis and its Regulation	1995	1996							
Cardiovascular Alterations	Human	Human Cardiovascular Performance in the Space Flight Environment							2000		
Cardiovascular Alterations; Clinical Capabilities	Human	Individual Susceptibility to Postflight Orthostatic Hypotension; Individual Susceptibility to Post-Spaceflight Orthostatic Intolerance: Contributions of Gender-Related and Microgravity-Related Factors			1997	1998	1999	2000	2001	2002	
Cardiovascular Alterations	Human	Integration of Neural Cardiovascular Control in Space	1995	1996	1997	1998	1999	2000			
Cardiovascular Alterations; Clinical Capabilities	Human	Maximal Aerobic Capacity Using Graded Bicycle Ergometry	1995	1996							
Cardiovascular Alterations; Clinical Capabilities	Human	Physiological Response During Descent on the Space Shuttle	1995	1996							
Cardiovascular Alterations	Human	Pulmonary Function During Extended Exposure to Weightlessness	1995								
Cardiovascular Alterations	Human	Pulmonary Function During Extended Exposure to Weightlessness (Euromir 95)	1995	1996							
Cardiovascular Alterations; Immunology, Infection & Hematology	Human	Red Blood Cell Mass and Survival	1995	1996							
Cardiovascular Alterations; Human Behavior & Performance	Human	Sleep and Respiration in Microgravity	1995	1996	1997	1998	1999	2000			
Cardiovascular Alterations	Human	Studies of Mechanisms Underlying Orthostatic Intolerance Using Ambulatory Monitoring, Baroflex Testing and the Valsalva Maneuver	1995	1996							
Cardiovascular Alterations	Human	Studies on Orthostatic Tolerance with the Use of LBNP	1995	1996							
Cardiovascular Alterations; Clinical Capabilities	Human	Test of Midodrine as Countermeasure against Postflight Orthostatic Hypotension									2002
Cardiovascular Alterations	Human	The Effects of EVA and Long-Term Exposure to Microgravity on Pulmonary Function				1998	1999	2000	2001	2002	
Cardiovascular Alterations; Clinical Capabilities	Human	The Role of Intracranial Pressure in Space Adaptation Syndrome					1999	2000	2001	2002	
Cardiovascular Alterations; Clinical Capabilities; Neurovestibular Adaptation	Human	Validation of Centrifugation as a Countermeasure for Otolith Deconditioning During Space Flight						2000	2001	2002	