FY 2004	Task Last Updated:	r i 03/24/2000
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Genomics of Human Bedrest and Exercise		
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65211	Congressional District:	9
GROUND	Solicitation / Funding Source:	NSBRI
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1	No. of PhD Degrees:	
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1	No. of Bachelor's Degrees:	
1	Monitoring Center:	NSBRI
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NCC 9-58-MA.002.08		
Muscle strength, endurance, and risk of injury are composed of most all the genes expressed in skeletal muscle during picture of potential underlying transcriptional mechanist tools for analysis, these studies will characterize the intro of over 33,000 human genes, and in a smaller subset in and comparative validation. The contrast between unlo	promised. This project will perfor- ng unloading, and thereby provide sms involved. Using microarray m fluence of unloading and exercise rats for a translational approach t aded muscle and different forms of	m an analysis of the expression a more global and integrated nethodology and bioinformatics on the differential expression o countermeasure development of exercise in the same
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Rationale for HRP Directed Research:		
Research Impact/Earth Benefits:	Physical inactivity has become a pervasive problem in America that has lead to much greater costs, both in terms of individual human suffering from disease and in terms of the public health care costs associated with chronic diseases such as heart disease, diabetes, obesity, and frailty. Our study aims to uncover some of the root causes explaining how inactivity causes diseases so that better treatments become available. Furthermore, our study aims to compare the efficacy of different exercise treatments targeted toward specific biological defects.	
Task Progress:	No progress report this period.	
Bibliography Type:	Description: (Last Updated: 02/27/2004)	