

Annex 1

MRC / BNSC workshop: Space for health or health for space?

Monday August 5 th 2002 at the Royal Society		
9:30 am	Introduction and welcome	Sir George Radda
	Bone physiology	Chair: Professor Mike Horton
9.40 am	Overview: Current health research goals and strategies	Dr Jonathan Reeve
9.55 am	Cellular biomechanics and new bone-active medicines	Professor Mike Horton
10.15 am	Bone loss during long term space flight is prevented by the application of a short term impulsive mechanical stimulus	Professor Allen Goodship
10.25 am	Weightlessness and exercise in the study of bone remodeling	Dr Hugh Montgomery
10.35 am	Osteoporosis and genes in space	Dr Benny Elmann-Larsen
10.45 am	General discussion	
11.10 – 11.25 am	COFFEE BREAK	
	Muscle physiology	Chair: Dr Olga Rutherford
11.25 am	Overview: Biological basis of maintenance of skeletal muscle	Professor Terry Partridge
11.40 am	The effects of space flight on skeletal muscle	Dr Olga Rutherford (presented by Professor Marco Narici)
12.00 pm	The effects of microgravity on muscle and bone mass and protein turnover	Professor Mike Rennie
12.10 pm	A mechano-sensitive growth factor in human skeletal muscle	Dr Steve Harridge
12.20 pm	Adaptations of the musculoskeletal system to ageing and spaceflight	Professor Marco Narici
12.30 pm	General discussion	
12.55 – 13.40 pm	LUNCH	

Cardiovascular physiology		Chair: Dr Jan Meck
13.40 pm	Overview: Cardiovascular research– current research goals and strategies	Professor Desmond Sheridan
13.55 pm	Overview of space contribution to the field	Dr Jan Meck (and Dr R Summers)
14.15 pm	Integrated team approaches to prepare for individualized medicine of the future	Professor Rupert Gerzer
14.25 pm	Microgravity: A tool for understanding the effect of gravity on cardiac function	Professor Peter Norsk
14.35 pm	Control of circulation and ventilation by the central nervous system	Professor Mike Spyer
14.45 pm	General discussion	
15.10 – 15.20 pm	TEA BREAK	
Neurophysiology		Chair: Prof Chris Kennard
15.20 pm	The role of neurophysiology in exploring space v. the role of of space in exploring neurophysiology	Dr Bill Paloski
15.40 pm	Human neurophysiology: What can be learned from experiments in microgravity?	Dr Joe McIntyre
16.00 pm	The influence of microgravity on the control of voluntary movement in man – the effect of dance training	Dr Nick Davey
16.10 pm	General discussion	
16.35 pm	Private meeting of Advisory Group	
17.15 – 18.00 pm	Keynote presentation Microgravity: A tool for studying microencapsulation technology	Professor Oya Alpar
18.15 pm	Predinner reception (City of London Room)	
19.00 pm	Dinner (City of London Room)	