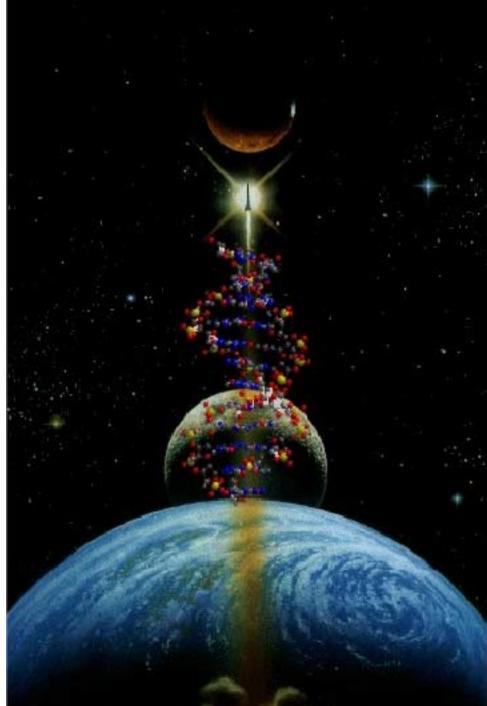
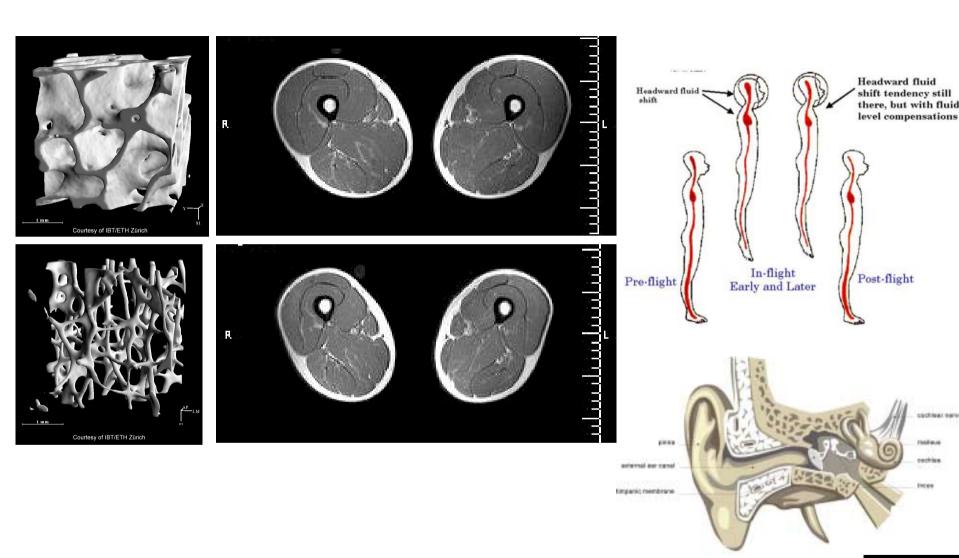
Medicine for Mars

Oliver Angerer, ESA Club of Amsterdam, 28.5.03









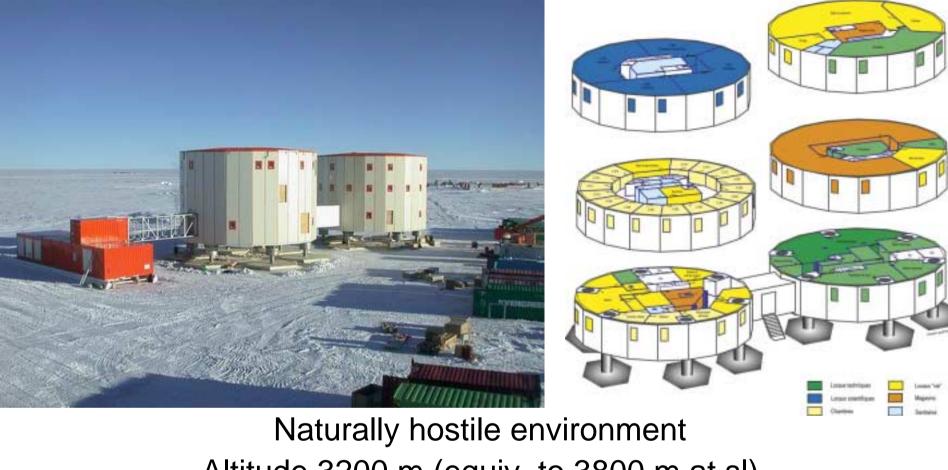




	Station in LEO (MIR, ISS)	Lunar Mission	Mars Mission
Duration	4-6 months	6 months	16-36 months
Crew Size	3-6	4	6 (4/2)
Isolation/Social Monotony	moderate	high	extremely high
Crew Autonomy	low	medium	extremely high
Evacuation Opportunities	yes	yes	no
In-Flight Support Measures			
 ground-based monitoring 	yes	yes	very restricted
 audio/video transmission 	yes	yes	very restricted
e-mail up-/downlink	yes	yes	yes
 internet access 	yes	yes	no
 onboard entertainment 	yes	yes	yes
 re-supply flights 	yes	no	no
visiting crews	yes	no	no
Visual Link to Earth	yes	yes	no







Altitude 3200 m (equiv. to 3800 m at sl)

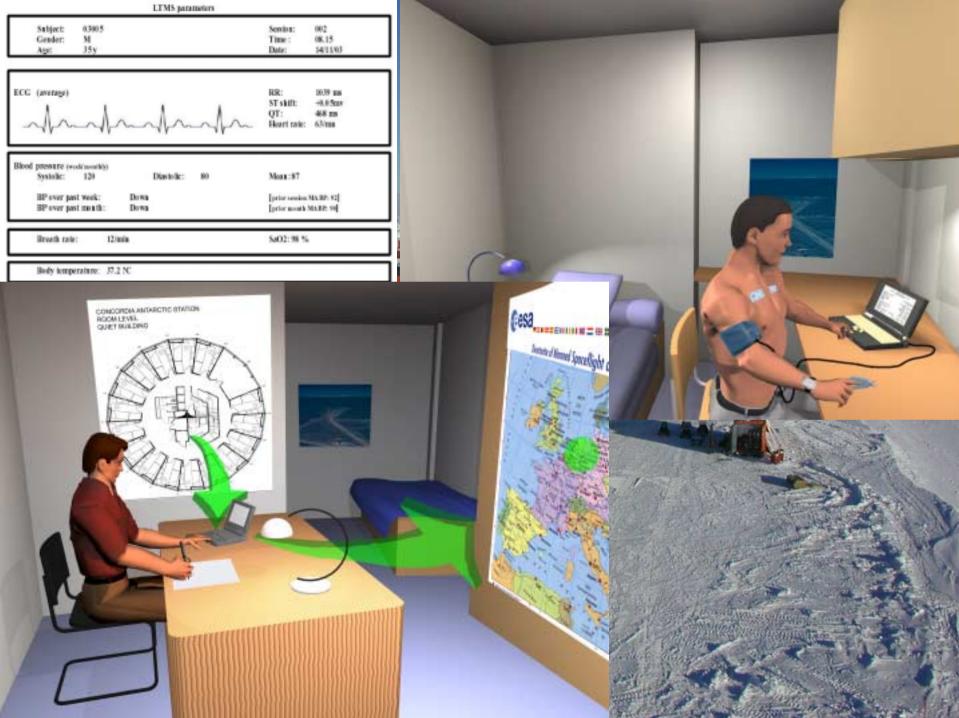
→ hypobaric, hypoxic conditions

Temperatures: summer average -30°, winter average -60°

Access period: November- March

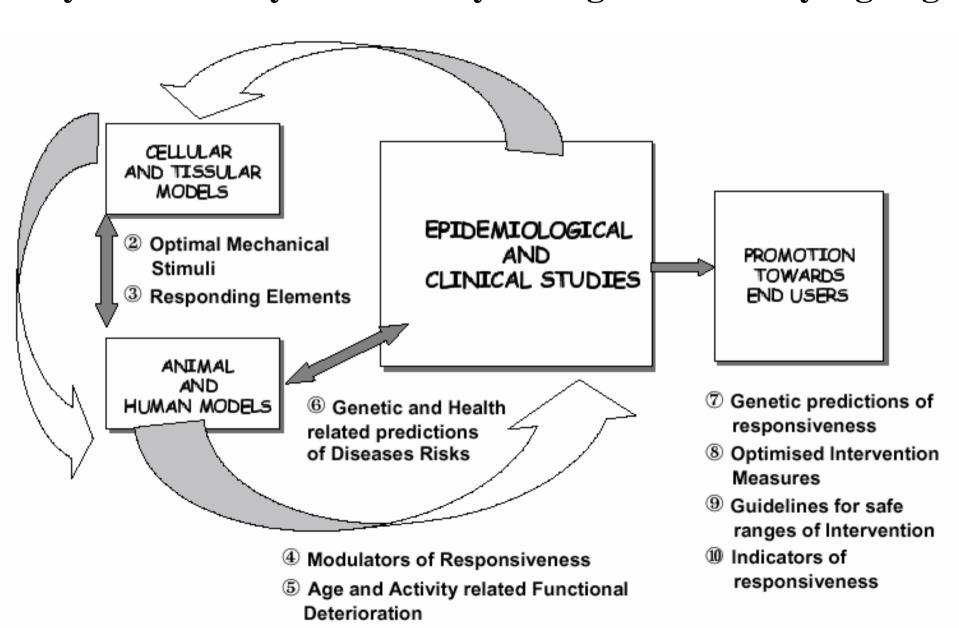


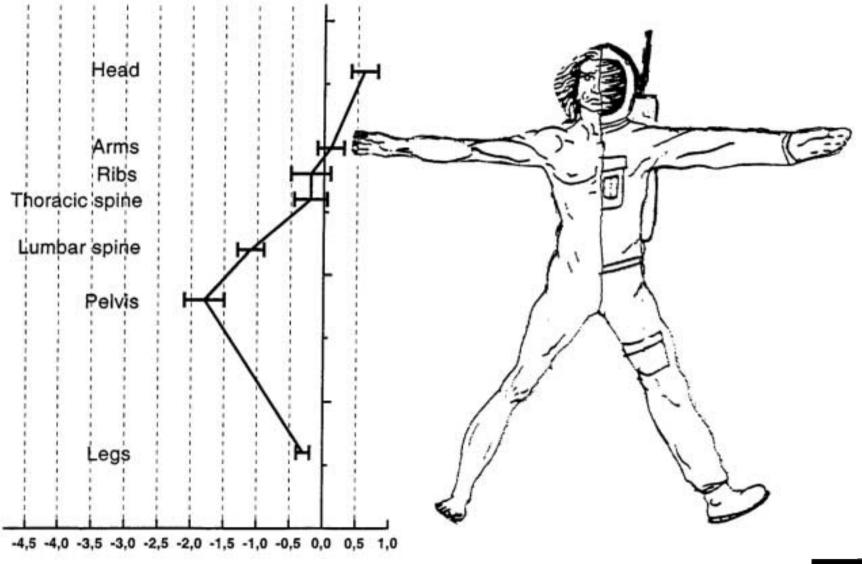






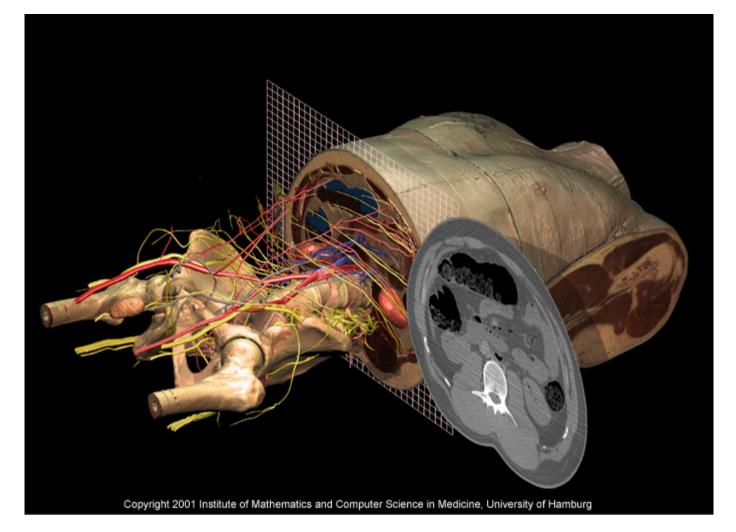
HEALTHY Proposal Physical Activity For Healthy Living And Healthy Ageing











http://www.uke.uni-hamburg.de/institute/imdm/idv/gallery/index.en.html





Summary Of Core Points

- Monitoring: Individual monitoring of specific parameters in selected populations
- Telemedicine: Support of treatment (on various levels) in selected populations
- (functional) Genomics: individual risk prediction, effective prevention and treatment
- Imaging: Virtual bodies to track disease processes



