Cheatography

IFB T1 Cheat Sheet by Sunny-side-down via cheatography.com/152955/cs/32927/

Bioeletrical signals		
a grp of cells	nerve & muscle cells	
cardiac muscle	exert electrical signals naturally	
cell membrane potential - stimuli <i>(electric)</i> - excited - pass threshold - action potential - generate electric field		
EMG, EOG, ERG		
Bio-acoustic signals		
sounds from th	e human lung <i>(breathing</i>))

sounds from the human	lung <i>(breathing)</i> ,	
body as it functions,	heart (blood	
giving information of the	<i>flow)</i> , bowel,	
body's inner condition	joint <i>(bone</i>	
	cracking)	
noninvasive and easy way of examination		
sound sensor apparatus	receive the bio-	
	acoustic signals	

Biomechanical signals

movement	motion & displacement signals, pressure & flow system
skeletal muscles	movement of the limbs
chest wall	movement of chest - respir- atory activity - examine rib cage injury

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Bio-optic signals light change in optical properties alive cells = dead cells = no emit light emit light energy energy blood measure the transmitted oxygenation light from cells at different wavelengths reflection or pulse rate by the change in skin color Biochemical signals

Bioonomical signals	
measurement of the chemicals in the body	directly from the living cells or in the form of samples
	CO2, O2, ion conc, hormones, signaling & receptor pathways
	signaling intera- ctions & processing cellular inform- ation
checks the ability of cells to recognize and respond to the changes in their environment	homeostasis, immunity, repair, development
error leads to disease	cancer, autoim- munity, diabetes

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Bio-magnetic signal

weak magnetic fields		
specifically brain, lung, heart	other organs also produce - but too weak - these organs work nonstop - slightly more stronger magnetic field	
measur- ement taken in a magnetic shielded room	exclude <i>most</i> external distur- bances	
detector called SQUID	superconducting quantum interference device	

Bio-impedence signals

impedance = resistance

implication of weak electrical current - travel thru the cells and tissue - measure the voltage drop generated = impedance of the body

measure body composition