Cheatography

Biology Cheat Sheet by cheatography_brrniz (PleaseSimplifyThings) via cheatography.com/192944/cs/4C

Introductio	on			Characterist	ics of Life (co	ont)	
Biology Cell	study of life Basic unit of life	d popliwing things		Growth Develo- pment	Growth	-increase in complexity of cells	
Character	differentiates living an ristics of Life	a noniiving tnings			Develo- pment	-inc in complexity of f(x) of cells	
characteristics that define living things					Species:	specific pattern for growth and dev	
Organi- zation	emergent properties-components group together to form new f(x)			Response to Enviro- nment	Irritable:	can respond to stimuli (senses as receptor)	
	atoms>molecules>organelles>cells>tissues>orgar organ system>organism>population>community>e stem>biosphere				stimulus effector train:	stimulus->receptor->coordinator->effec or/response	
Energy Utiliz- ation	metabolism: absorbs ene	ergy + converts to bodily f(x)		Evolut- ionary Adaptation	Adapta- tions:	inherited characteristics to suit enviro- nment	
	energy transfer lost through heat			Adaptation	Evolution:	change in genetic makeup of populatio	
	classified based on source	ce of energy				over generations	
	1. Primary Producers (autotrophs	-obtain from non-living				Charles Darwin & Alfred Russel Wallac (conceptualized)	
	2. consumers	-from living			Natural	environmental pressure	
	3. decomposers	-from unliving			Selection:		
Homeos tasis	cells keep conditions within certain range				Exposure to prolonged stimuli induces natural selection		
	responds to stimuli to counteract changes			Def of Life	NASA	-"self-sustaining organism with chemic	
Reprod- uction	goal of life:	-keep genes alive	enes alive			systems that are capable of Darwinian Evolution"	
		-transmit DNA			life is too c	omplex, diverse, and dynamic to be give	
		-pass traits to generation	IS		an exact de	efinition	
	2 ways						
	1. Asexual	-1 parent. all offspring identical to parent					
	2. Sexual	-2 parents. genetic divers	sity				
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Bioethics			Bioethics	s (cont)		
study of ethical, social, and legal issues that arise in the biomedical field				>acknowledge that :	1. there are limits to ppl's abilities	
intends to	'guide', like a handbook				2. treatment options may be too	
Autonomy	determine wishes of the p			complex		
	ppl make choices based beliefs			 always a chance for benefit of the risk of harm 		
	Principle of self-rule and	Justice	treat patients equally regardless of any other factors medical need criteria:			
	informed consent: aware of every single option					
	available to them		1. likely benefit to patient			
	informed consent require		2. urgency of need to patient			
	1. for patient	capable of understanding		3. change of quality o	life to patient	
	consequences of consent			4. duration of benefit		
		capable of making sound decision		conditions for determining priorities	-	
	2. for healthcare	provide all necessary info for		1. on a national level	cost of med goods	
	provider	patient			-fair and livable	
		perform reflective convo with patient			-economically stable	
Benefi- cience	promote good	pation		2. on an institutional level	model of medical triage	
	obligation to do something that will most likely do good unless there is sufficient reason not to				-to maximize number of survivors	
Non-Ma- leficience	not to inflict harm					
	obligation to not perform act that will most likely do harm					
	>fundamental duty of med service providers:	give quality health care to all patients				
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