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Biology Cheat Sheet

by cheatography_brrniz (PleaseSimplifyThings) via cheatography.com/192944/cs/40

Introducti	on			Characterist	ics of Life (co	nt)		
Biology Cell	study of life Basic unit of life			Growth Develo-	Growth	-increase in complexity of cells		
001	differentiates living and	d nonliving thing	S	pment				
Characte	ristics of Life				Develo- pment	-inc in complexity of f(x) of cells		
character	ristics that define living thing	ņs			Species:	specific pattern for growth and dev		
Organi- zation	emergent properties-com new f(x)	ponents group to	-	Response to Enviro- nment	Irritable:	can respond to stimuli (senses as receptor)		
	atoms>molecules>organe organ system>organism> stem>biosphere	population>com	munity>ecosy-		stimulus effector train:	stimulus->receptor->coordinator->effec or/response		
Energy Utiliz- ation	metabolism: absorbs ene	rgy + converts to	o bodily f(x)	Evolut- ionary Adaptation	Adapta- tions:	inherited characteristics to suit enviro- nment		
	energy transfer lost throu	gh heat		rauptation	Evolution:	change in genetic makeup of populatio		
	classified based on source of energy				Evolution.	over generations		
	1. Primary Producers (autotrophs	-obtain from n	ion-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		5	Def of Life	NASA	-"self-sustaining organism with chemic		
Reprod- uction	goal of life:	-keep genes a	alive			systems that are capable of Darwinian Evolution"		
		-transmit DNA	A		life is too co	omplex, diverse, and dynamic to be give		
		-pass traits to	generations		an exact de	efinition		
	2 ways							
	1. Asexual	-1 parent. all o identical to pa						
	2. Sexual	-2 parents. ge	enetic diversity					
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Bioethics			Bioethics (cont)					
study of etl field	hical, social, and legal issue	e in the biomedical		>acknowledg	e 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	ne wishes of the patient					complex	
	ppl make choices based on own moral value beliefs						3. always a chance for benefit or the risk of harm	
	Principle of self-rule and principle of respect for persons			Justice	treat patients	equally reg	ardless of any other factors	
	informed consent: aware of every single option				medical need	criteria:		
	available to them				1. likely benefit to patient			
	informed consent requirements				2. urgency of need to patient			
	1. for patient		of understanding		3. change of	quality of lif	of life to patient	
			ences of consent		4. duration of benefit to pa		atient	
					conditions for ining priorities			
			all necessary info for		1. on a national level		cost of med goods	
	provider	patient					-fair and livable	
		perform patient	reflective convo with				-economically stable	
Benefi- cience	promote good				2. on an instit level	utional	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 qua patients	lity health care to all					
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