

osmoregulation Cheat Sheet by katiefocht25 (katiefocht) via cheatography.com/132231/cs/31291/

osmoregulation		kidne	kidneys		
about preventing dehydration		neph	nrons	function excretory unit in kidney	
- for terrestrial animals					
why does osmoregulation work?				interfaces w/ circ system (bowman's capsule)	
endocrine-mediated regulation of excretory system				collecting ducts pass filtrate to the ureter	
antidiuretic hormone (ADH) or vasopressin (AVP)		filtra		water, NaCl, ions (H bicarbonate), urea, glucose, amino acids, drugs/poisons	
os ma	triggered by increase in osmolarity makes collecting duct of nephrons more permeable to water		reabso- rption	active&passive transport	
				water, NaCl, bicarbonate, glucose, amino acids	
	increase water retention			and NaCl occurs along loop of	
variation in urine		henl	henle		
- hypotonic	remove water, retain salt		-solute [] (osmolarity) of interstitial fluid increases towards the center of kidney		
-hyper-			overall filtrate is:		
tonic				highly reduces in volume (water is retained by the body)	
excretory system and osmoregulation excretory system: regulate solute movement				highly reduced in important solute [NaCl]	
between internal fluids and environment				highly concentrated in waste	
filtration	filtering body fluids			solutes (urea)	
reabso- rption	reclaiming water & valuable solutes				
secretion	adding nonessential solutes and wastes from the body fluids to filtrate				



excretion

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processed filtrate containing nitrogenous wastes released

from the body

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