Cheatography

Biology 14 Human ears Cheat Sheet by kkkklui via cheatography.com/153917/cs/34757/

Structure		Outer ear		Middle ear		Inner ear	
3 regions	outer	Pinna (ear flap)	flap of cartilage covered by skin		swallowing to open it to allow air to enter or leave middle ear	sensory hair cells	detection of head movements
	inner						
	IIIIei		collects sound		equalised the		stimulated, send
How we he	ar		waves in surrou-		pressure on either		nerve impulse to brain
Sound	collected by pinna		nding		side of eardrum		brain coordinate
waves	are directed to eardrum		directs them along auditory canal to	Unequal pressure	eardrum will bulge		muscled to maintain body balance
	causes eardrum to vibrate	A	eardrum		bulging eardrum cannot vibrate freely		
		Auditory canal	produces wax				
Earbones	amplify and transmit vibration to oval window	wax	lubricates canal		cannot hear clearly		
		Wax	traps dirt and	Inner ear			
			bacteria to prevent	Cochlea	for hearing		
Oval window	vibrates		them entering the	e e e e mou	coiled tube with		
	cause perilymph in cochlea to vibrate		middle ear		three parallel		
		Eardrum	thin, elastic		canals separated		
	vibrations in		membrane at the		by membranes		
	perilymph is transmitted to endolymph of		convert sound waves	perilymph	fluid in upper and lower canal		
				endolymph	fluid in central		
	cochlea				canal		
Sensory hair cells (central canal)	stimulated	Middle ear Ear bones	3 tiny ear bones	sensory hair cells	in central canal		
			smallest bones in body		detects vibrations of endolymph		
	generate nerve impulses		amplify and transmits vibration	endolymph vibrates	sensory hair cell hairs are bent		
produce sensation	nerve impulses		from eardrum to		sensory hair cells		
	travel along auditory	Qual	oval window		generate nerve		
of hearing	nerves to auditory centre in brain	Oval window	flexible membrane		impulses		
	vibration in	mildon	transmits vibration		nerve impulses		
	perilymph transm- itted to round window		from ear bones to		travels along auditory nerves to		
			inner ear		auditory centre in		
		Round	releases fluid		brain		
Round window	releases fluid pressure in the cochlea to the air in	window	pressure in cochlea into the air	Semici- rcular canals	not involved in hearing		
	middle ear	Eustachiar tube	middle ear to				
			pharynx				
			normally closed				

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