Biology 2201





Across

- 3 small container made of membrane used for storage and transport in the cell
- 6 observes that cells from many diverse organisms all appear to have a darker region, which he names the nucleus, near the centre.
- 10 a phospholipid bilayer that encloses the cell's contents, separating and

Down

- 1 cells lack a true nucleus.
- 2 refers to the ability of the microscope to show details at a given magnification. An image with good resolution has sharp, easily distinguished details. An image with poor resolution looks blurry.
- 4 a strong, rigid structure that surrounds the cell membrane in plant cells; made mainly of cellulose
- 5 is credited with disproving abiogenesis and proving biogenesis.

	protecting the cell from its	7	sai
4.2	surroundings	8	Th
12	renamed spontaneous generation to abiogenesis.	9	org ma
13	the visual range that is in focus from		nu
	foreground to background	11	an
14	To test this hypothesis, he placed		pro
	rotting meat in two uncovered jars (his		pro
	covered with cloth (his experimental	16	is a
	group).		It I
15	a change in thinking that provided a	20	CO
15	whole new way of looking at the		DIC
	world.		all
17	organelle that is the site of cellular		de
	respiration, producing ATP for cellular	22	or
	functions		cel
18	a large molecule	23	are
19	did needhams experiment over and		in
	said that vital principal was in the air	25	de
21	biomolecule containing carbon,		mi
	hydrogen, and oxygen; includes sugars		CO
24	the idea that life can develop from		be
	non-living matter; also called	28	sai
	spontaneous generation	30	the
26	The study of the activity and properties	32	"Tl
	of molecules that are important in cells		ari
27	and other biological systems		spo
27	bolled broth but didnt boll it long	33	no
	the flask		rib
29	organelle of plants and eukaryotic	34	a c
25	protists in which photosynthesis takes		tha
	place	35	sai
31	refers to the number of times larger		exi
	the image you observe is compared	36	20
	with the actual object.	50	ba
37	small non-membrane-bounded		60
	organelle that builds proteins.		
38	used a simple microscope of his own design to look at cork. He called the		
	little boxes or units that he observed		

cells.

- id All plants are made of cells
- ne have a true nucleus.
- ganelle that contains enzymes that digest
- acromolecules (proteins, polysaccharides, fats, and cleic acids)
- n organelle that consists of the smooth ER, involved in roduction of lipids and steroids, and rough ER, involved in rotein production and packaging
- an energy-carrying molecule that releases energy when loses a phosphate.
- ontrol what enters and leaves a cell, carry oxygen in ood, aid in blood clotting, build hair and fingernails, upport the body's tissues, break apart food molecules, low muscles to contract, help cells to communicate, efend the body against ger
- ganelle that acts as a storage compartment; in plant Ils, they are very large and have multiple functions
- e a diverse group of macromolecules with one property common: they do not dissolve in water.
- esigns his own single-lens microscopes. Some of his icroscopes are as much as six times more powerful than ompound microscopes of the time. He created much etter glass lenses.
- id All animals are made of cells
- e idea that life only arises from life
- The Father of Biology" wrote that living organisms could ise spontaneously from non-living matter. He called this pontaneous generation.
- on-membrane-bounded structure that produces posomes
- cell's contents, including the cytosol and organelles other an the Nucleus
- id, "Cells are the last link in a great chain (that forms) ssues, organs, systems, and individuals...Where a cell kists, there must have been a pre-existing cell'
- organelle that processes proteins made by the ER and ckages them for transport

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Name: ___