View photos of Smooth Endoplasmic Reticulum (9)

Send Smooth Endoplasmic Reticulum a message

Poke Smooth Endoplasmic Reticulum

Information

Networks: Prokaryote and Eukaryote HOME MOVIES: Endoplasmic Reticulum Hometown: Cytoplasm, In-between Rough ER and Golgi Complex

Friends







Golgi Complex



Phos-

pholid

Ribosome



Nucleus

ER Membrane

Smooth Endoplasmic Reticulum is "The Synthesizer"

Boxes

Flair



Smooth Endoplasmic Reticulum is preparing to transport glycoproteins! September 24, 2011

Smooth Endoplasmic Reticulum is currently regulating the calcium concentration! September 21, 2011



Endoplasmic Reticulum Membrane Thanks! September 20, 2011



Smooth Endoplasmic Reticulum to Endoplasmic Reticulum Membrane your welcome for inserting integral membrane proteins as they were being synthesized. September 20, 2011

Smooth Endoplasmic Reticulum

Logout



Smooth Endoplasmic Reticulum is synthesizing lipids, carbohydrates, and steroids! September 20, 2011

Smooth Endoplasmic Reticulum is increasing surface area for the action or storage of key enzymes. September 20, 2011

Smooth Endoplasmic Reticulum is converting glucose-6-phosphate into glucose! September 18, 2011



Smooth Endoplasmic Reticulum Being in charge of detoxification of drugs keeps me busy! September 17, 2011

Rough ER

Logout



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Information

Networks: Prokaryote and Eukaryote Birthday: September 2nd, 2011 HOME MOVIES: Endoplasmic Reticulum Hometown: Cytoplasm, In-between Rough ER and Golgi Complex Phone Number

1-800 -SYNTHZR

Photos

4 Albums



The Family

Updated last Tuesday



Me and the Nucleus

Updated two months ago

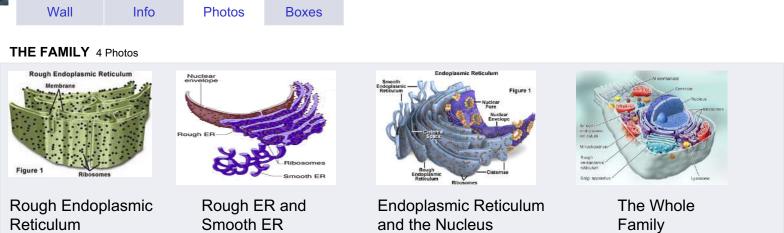
Smooth Endoplasmic Reticulum is "The Synthesizer"

Wall	Info	Photos	Boxes				
Basic Inform	ation						
Networks: Sex:		Prokaryote and Eukaryote Asexual: Mitosis Sexual: Mitosis					
Made of:	Phospholipid bil	ayers					
Hometown: Relationship St	2 1	,	ugh ER and Golo ndoplasmic Retic				
Personal Info	ormation						
Activities: concentration, I metabolism		•	ids, Metabolism receptors on cel	of carbohydrates I membrane	, 0	calcium , and Steroid	
Interests:	Synth	esizing, Metaboli	zing, Detoxifying	, and Regulating			
Favorite Music:	Anyth	ning but country r	nusic!				
Favorite Movies	S: Anchorm	an ,Scary Movie	4				
Favorite TV Sho	ows: Late S	Show with David	Letterman, Wipe	Out!, Pawn Stars	3		
Favorite Books	Ender's G	ame by Orson S	cott Card, <u>The H</u> ı	unger Games, <u>Ca</u>	atching Fire, and	Mocking	

Jay by Suzanne Collins



Smooth Endoplasmic Reticulum is "The Synthesizer"



Made of (4)Photo Albums





The Family 4 photos Me and the Nucleus 5 photos

Profile Pictures
1 photo



Photos of Me 9 photos

WHAT YOU SHOULD KNOW ABOUT ME

MADE OF:

- Phospholipid Bilayers
 - Phosphates
 - Lipids

FUNCTION:

- · Synthesizes lipids and steroids
- · Metabolizes carbohydrates (converts glucose-
- 6-phosphate into glucose)
- Regulates calcium ions
- Drug detoxification
- Steroid metabolism
- •Used as a surface area for the action of enzymes
- Stores enzymes
- Pack proteins for transportation
- Stores calcium to be used in muscles

MISCELLANEOUS:

•The Smooth Endoplasmic Reticulum is called smooth because it lacks the ribosomes that make the Rough ER look Rough

•Large concentration of Smooth ER in liver cells in order to detoxify drugs and another large concentration in muscles

•The Smooth Endoplasmic Reticulum has different functions in different cells (Ex: In a liver cell the Smooth ER detoxifies, in a muscle cell the Smooth ER stores calcium that is released when muscles contract

•The Smooth ER is connected to the Rough ER and is by the Nuclear Membrane

•Smooth ER is found both in Animal and Plant cells

Smooth Endoplamic Reticulum

lumen



RESOURCES USED:

Information

http://micro.magnet.fsu.edu/cells/endoplasmicreticulum/endoplasmicreticulum.html http://en.wikipedia.org/wiki/Endoplasmic_reticulum http://www.etap.org/demo/biology1/instruction5tutor.html http://courses.washington.edu/conj/membrane/bilayer.htm http://academic.brooklyn.cuny.edu/biology/bio4fv/page/phosphb.htm http://www.buzzle.com/articles/smooth-endoplasmic-reticulum.html http://www.cytochemistry.net/cell-biology/rer1.htm

Images

http://upload.wikimedia.org/wikipedia/commons/5/57/Micrograph of a cell nucleus.png http://micro.magnet.fsu.edu/cells/endoplasmicreticulum/endoplasmicreticulum.html http://biology.about.com/od/cellanatomy/ss/endoplasmic-reticulum.htm http://biology.about.com/od/cellanatomy/ss/endoplasmic-reticulum.htm http://bioweb.wku.edu/courses/biol115/wyatt/biochem/lipid/P-lipid.giff http://bioweb.wku.edu/courses/biol115/wyatt/biochem/lipid/P-lipid.giff http://publications.nigms.nih.gov/insidethecell/images/ch1 smoothER.jpg http://upload.wikimedia.org/wikipedia/commons/3/3d/10 small subunit.gif http://library.thinkquest.org/C004535/endoplasmic reticulum.html

http://wiki.faithlutheranlv.org/groups/carmanbio/wiki/7dcff/Endoplasmic Reticulum rough smooth.html