



مدونة المناهج السعودية

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الموقع التعليمي لجميع المراحل الدراسية

في المملكة العربية السعودية

الكورس عبارة عن **3** دورى كل دورى له امتحان خاص به (ما يتم الإمتحان به لا تختبره مرة أخرى)

- دورى أول (**30** درجة)
- دورى ثانى (**30** درجة)
- دورى ثالث (**40** درجة)

منهج الأحياء

Biology [101]

منهج جديد 1440

بجامعة جدة

المراجعة والأسئلة

الدوري الأول

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صور الدوري الأول






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CH 1 Properties of life خصائص الحياة

Order الترتيب	Regulation التنظيم	Growth and development النمو و التطور	Energy processing معالجة الطاقة
<p>example : (pinecone) كوز الصنوبر</p> 	<p>Example : Lizard can bask on a rock to absorb heat when temperature dropping عندما تنخفض درجة حرارة السطحية تستدفأ بالصخر عن طريق امتصاص الحرارة منها</p> 	<p>Example : Crocodile hatching egg تمساح يفقس البيضة</p> 	<p>Example : Cheetah obtain energy by eating its kill الفهد يحصل على الطاقة عن طريق اكل ما يقتله</p> 

Reproduction تكاثر	Response to the environment الاستجابة للطبيعة	Evolution التطور
<p>Example : Monkey reproduce only monkey</p> 	<p>Example : Venus flytrap</p> 	<p>Example : Giant leaf insect has evolved in a way that provide camouflage حشرة الورقة العملاقة تطورت بشكل يساعدها على التخفي</p> 

CH 2 Essential Chemistry for Biology

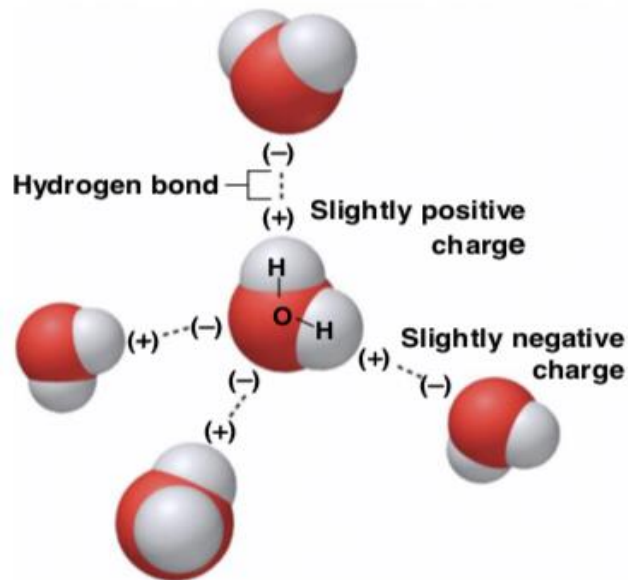
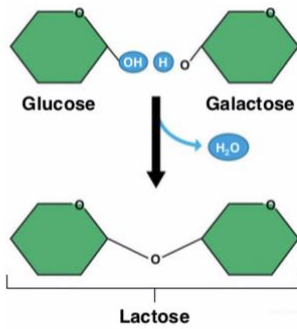


Figure 2.11: a raft spider walking on water

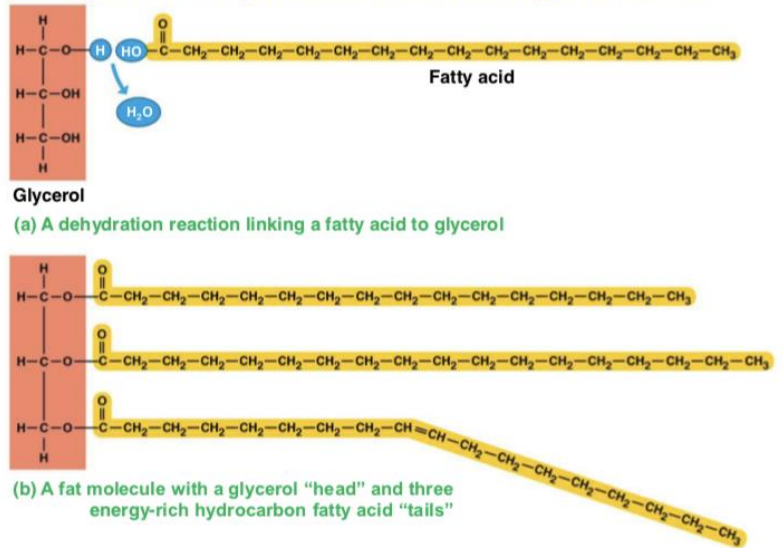
CH 3 The molecules of life



Disaccharide (double sugar) formation



Figure 3.11: The synthesis and structure of a triglyceride molecule



Example of steroids

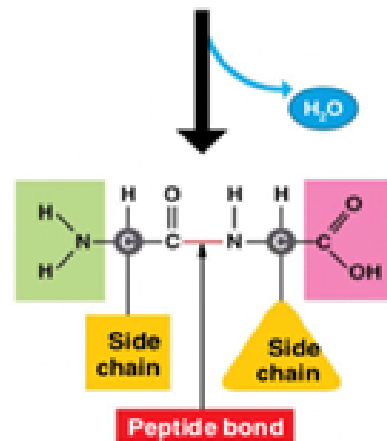
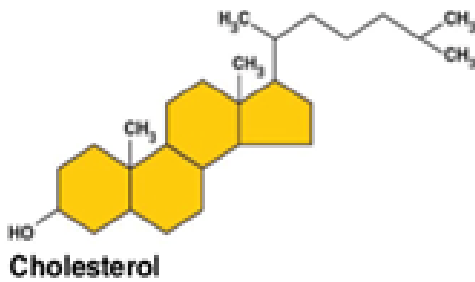
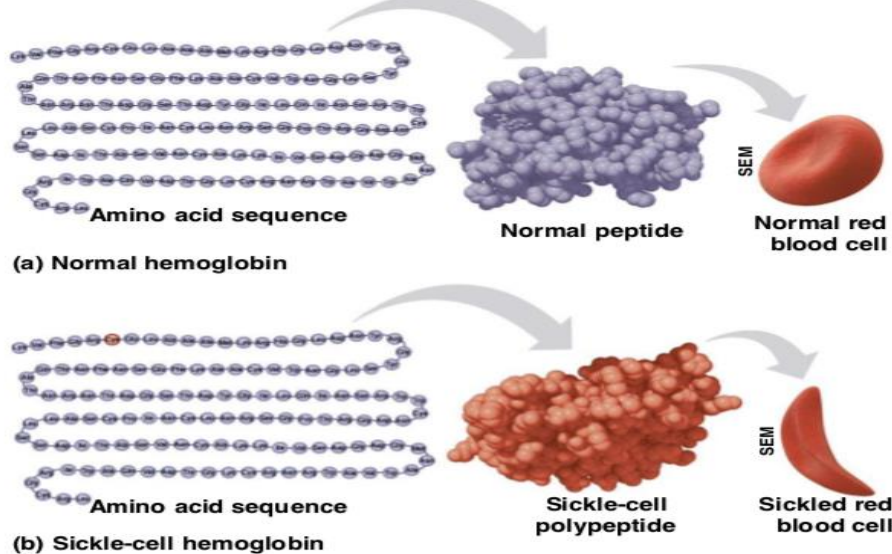
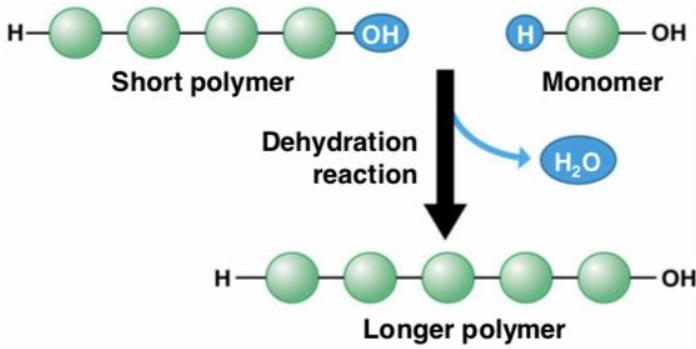
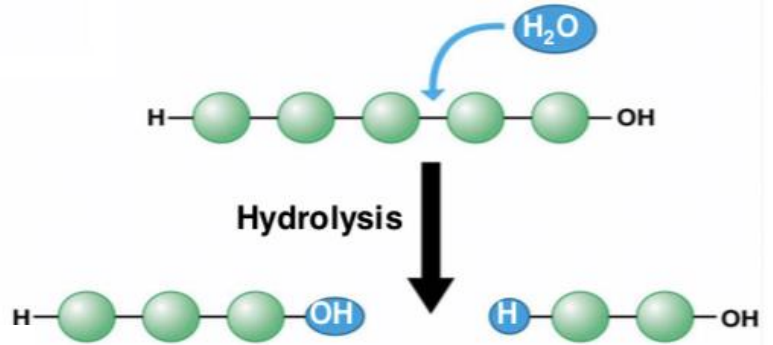


Figure 3.19 A single amino acid substitution in a protein causes sickle-cell disease

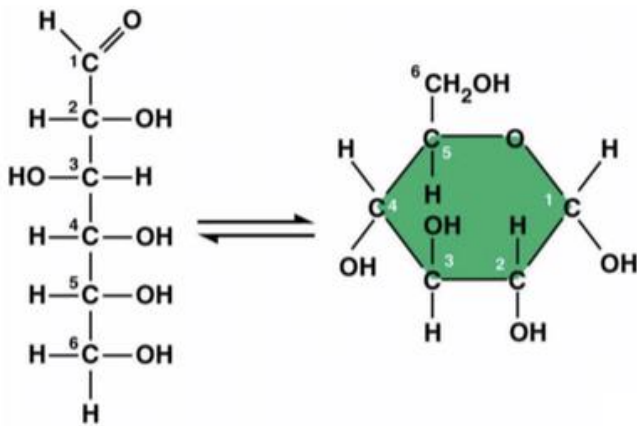




(a) Building a polymer chain



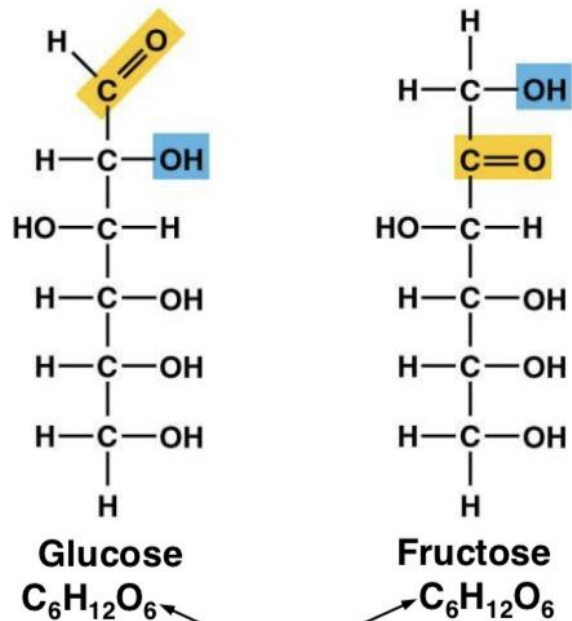
(b) Breaking a polymer chain



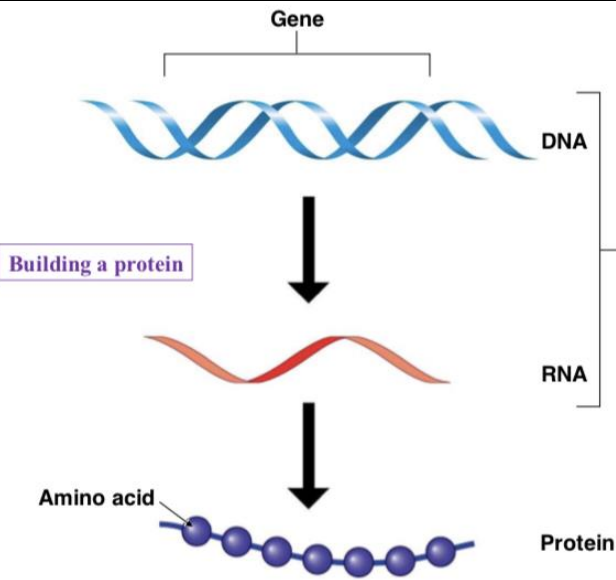
(a) Linear and ring structures



(b) Abbreviated ring structure



Isomers
(same formula, different arrangements)



- Each nucleotide has three parts:
 1. a five-carbon sugar,
 2. a phosphate group, and
 3. a nitrogen-containing base.

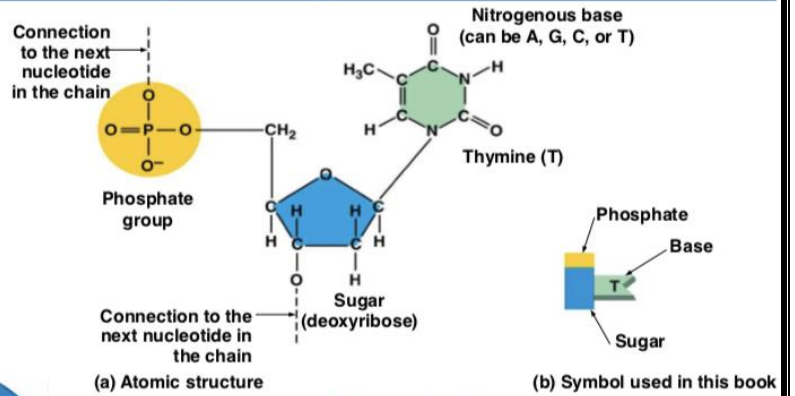
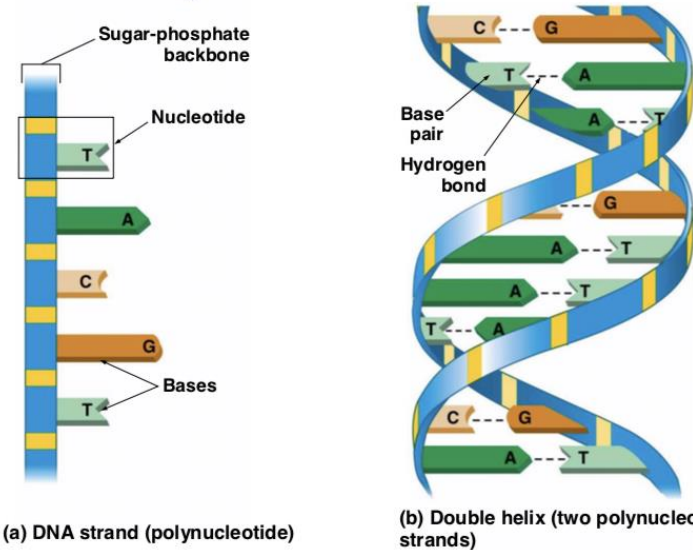
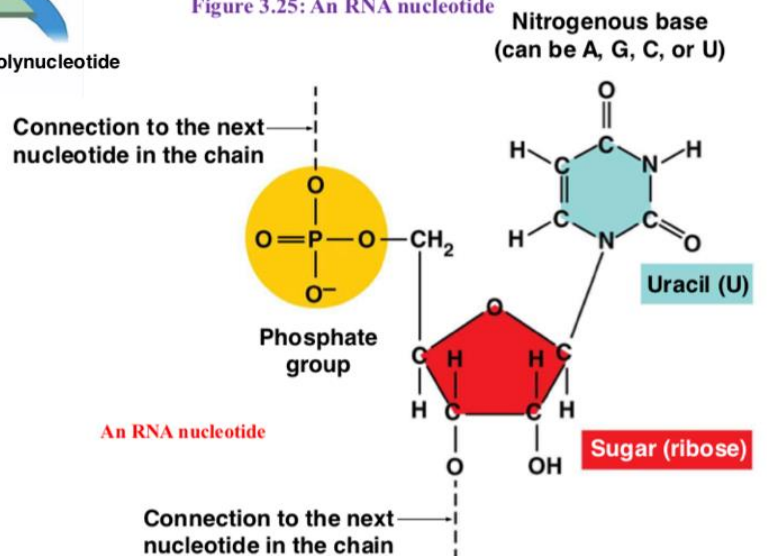


Figure 3.24: The structure of the DNA

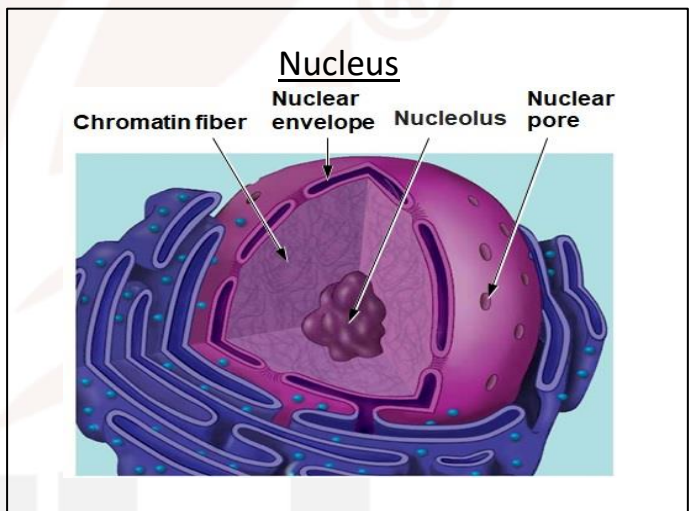
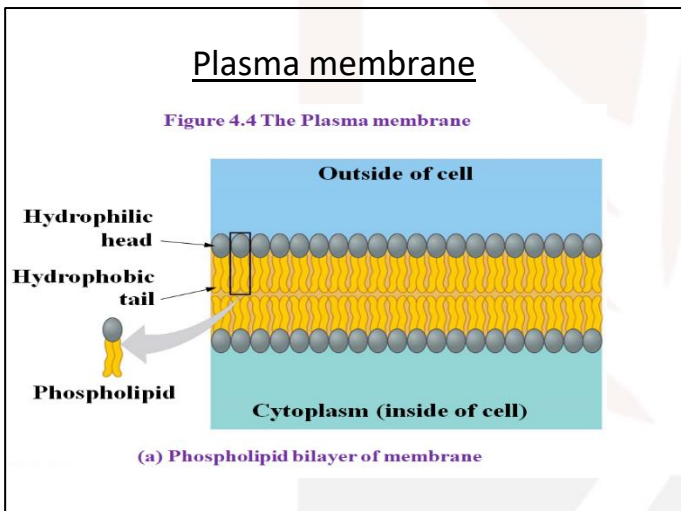
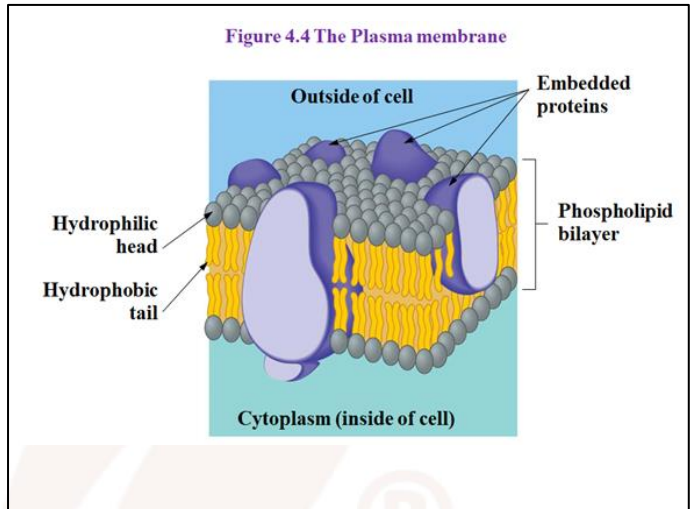
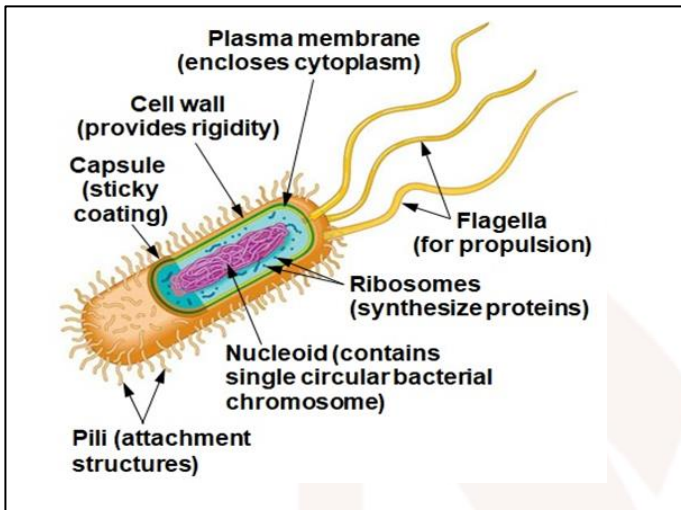


A DNA nucleotide

Figure 3.25: An RNA nucleotide

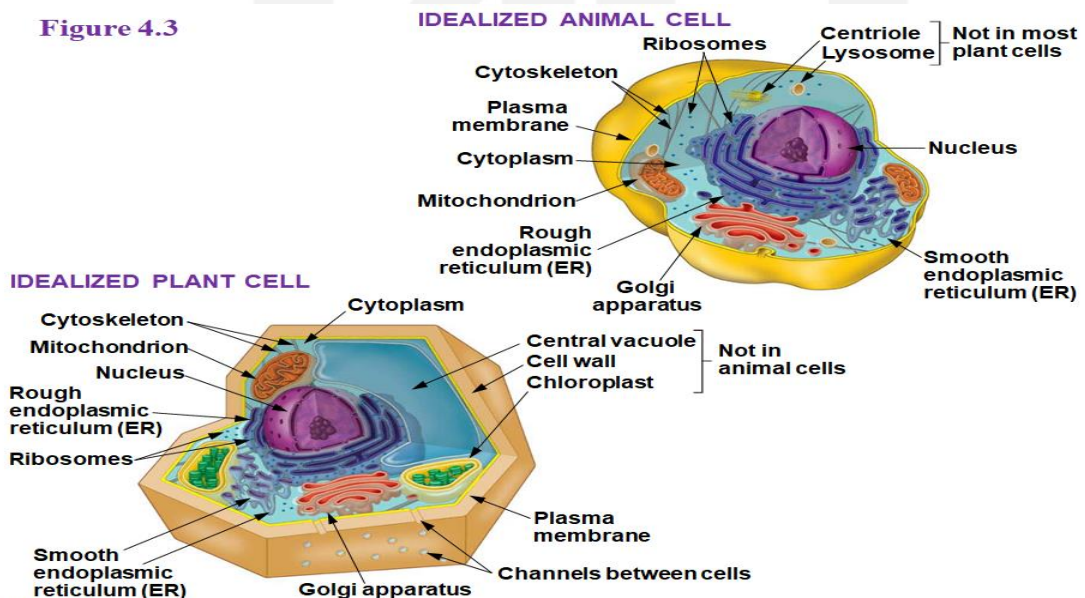


CH 4 The Cell and Tissue



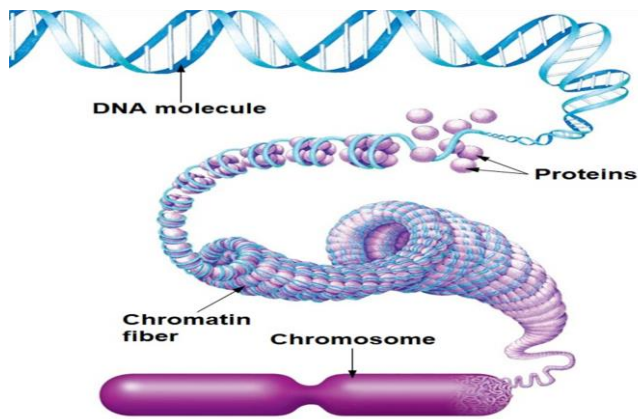
Animals and plant cells

Figure 4.3

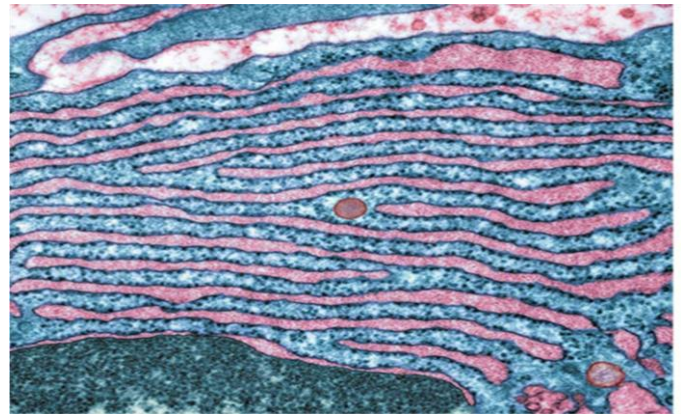


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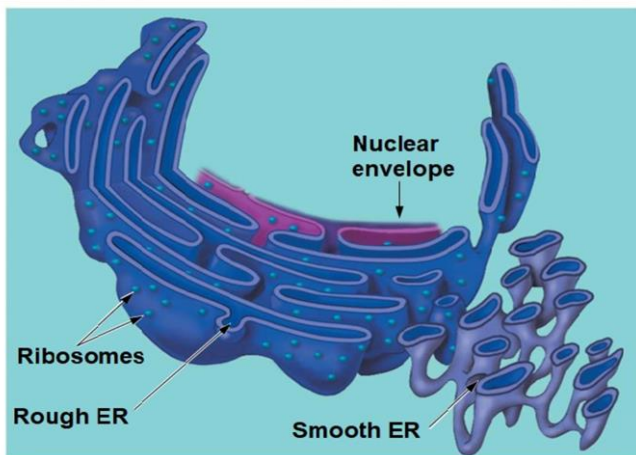
Chromosome and chromatin



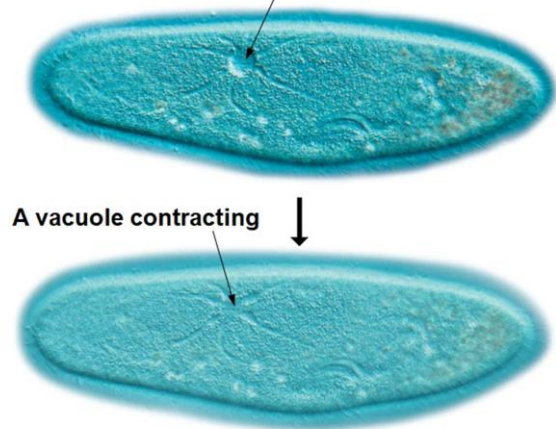
Ribosomes



Endoplasmic reticulum

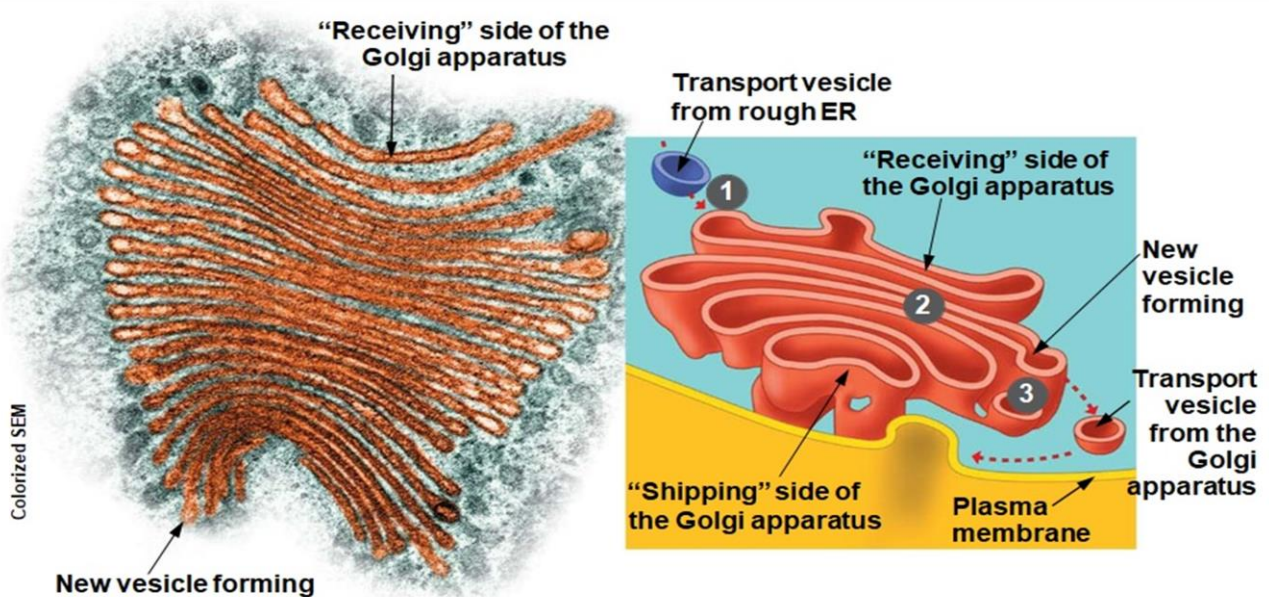


A vacuole filling with water

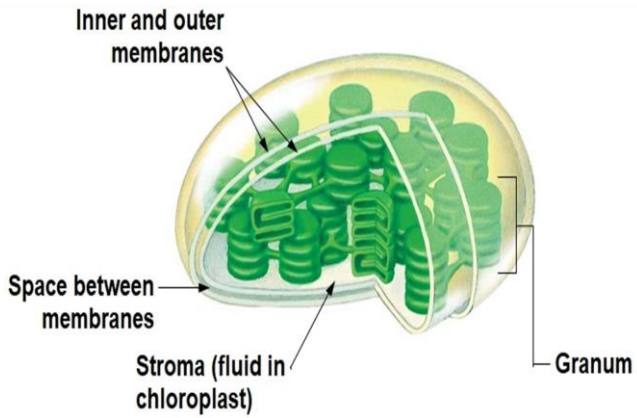


(a) Contractile vacuole in *Paramecium*

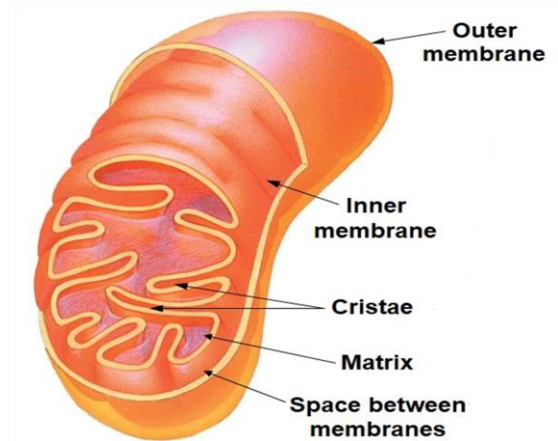
Golgi Apparatus



Chloroplast



Mitochondria



Flagella of human sperms cells

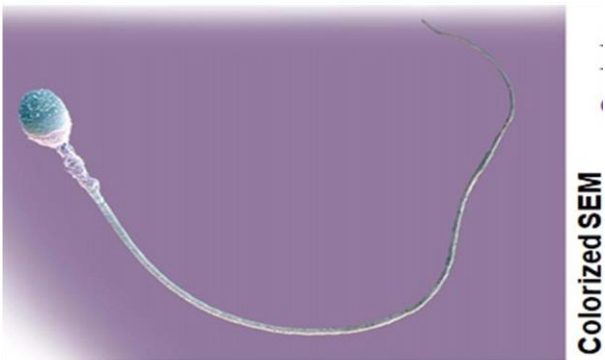
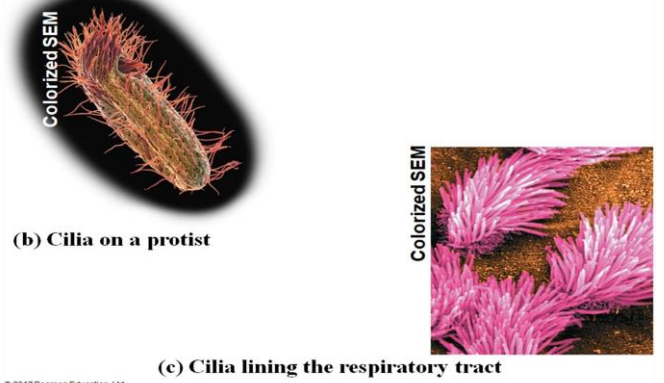
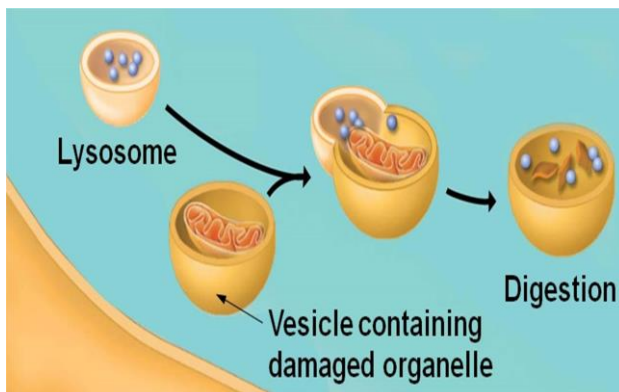


Figure 4.20: Example of flagella and cilia

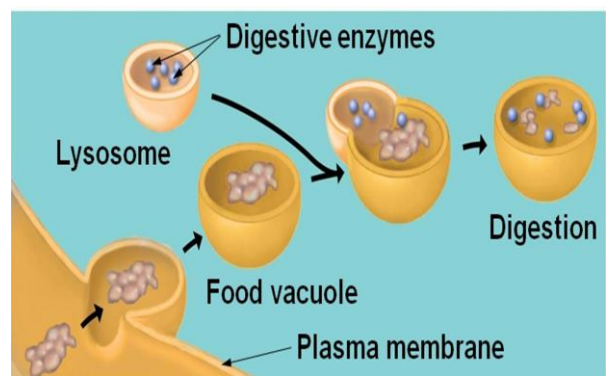


Lysosomes



(b) A lysosome breaking down the molecules of damaged organelles

Lysosomes



(a) A lysosome digesting food

CH 5 Unifying concepts of Animal and Plant : Structure and Function

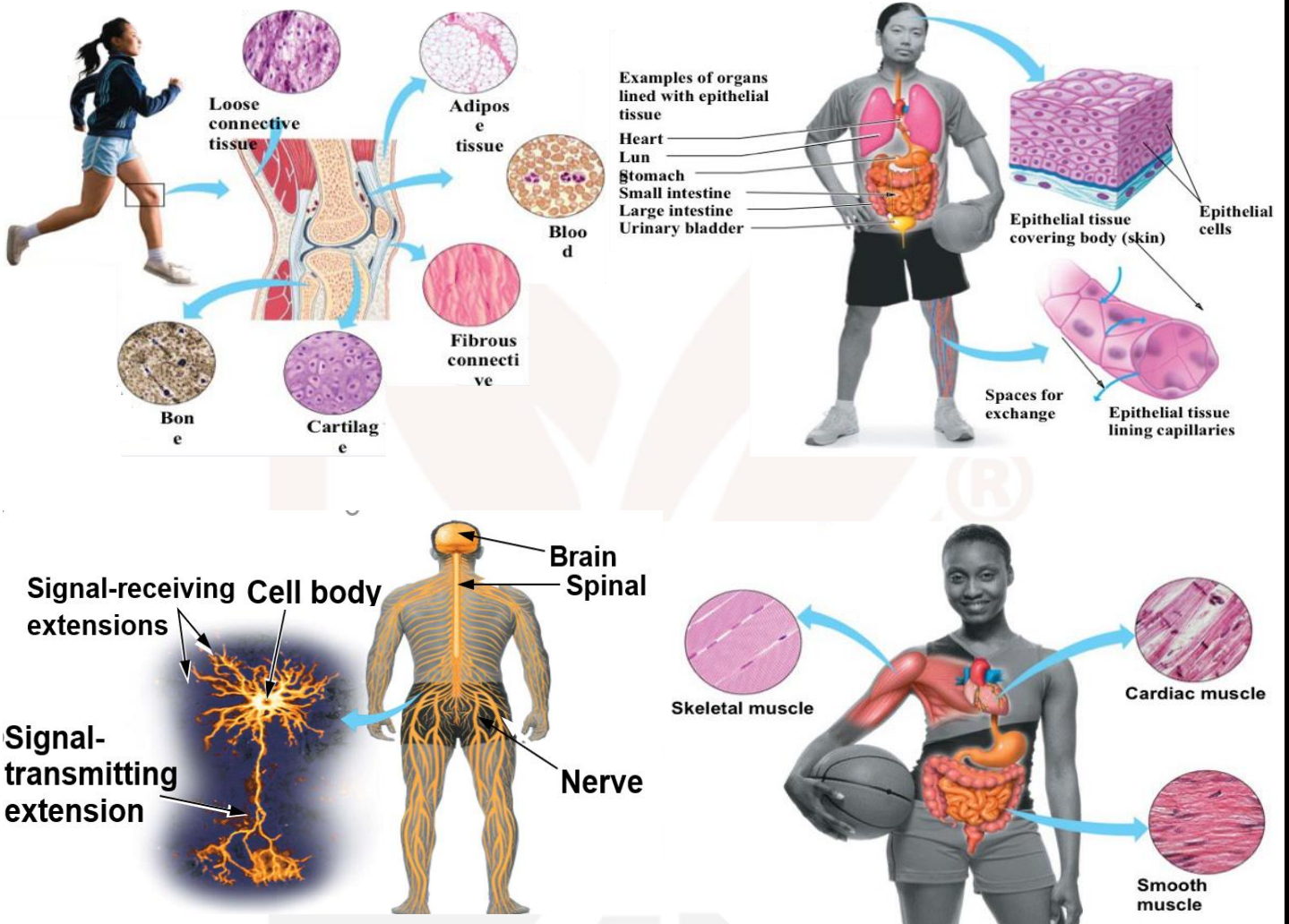
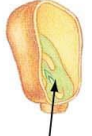

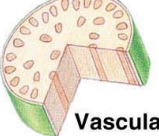




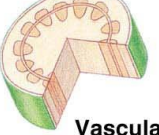

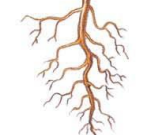


Table 28.1 Comparing Monocots and Eudicots

	Seed Leaves	Leaf Veins	Stems	Flowers	Roots
Monocots	 One cotyledon	 Veins usually parallel	 Vascular bundles in scattered arrangement	 Floral parts usually in multiples of three	 Fibrous root system
Eudicots	 Two cotyledons	 Veins usually branched	 Vascular bundles arranged in ring	 Floral parts usually in multiples of four or five	 Taproot usually present

