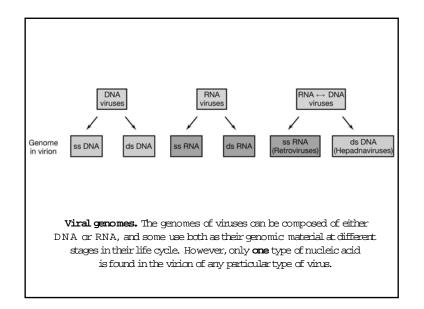
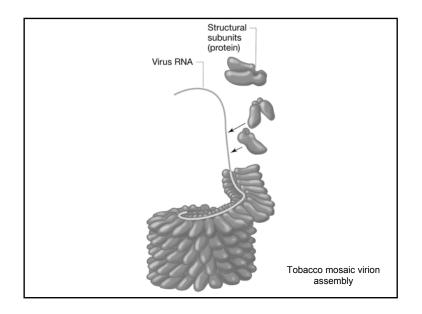


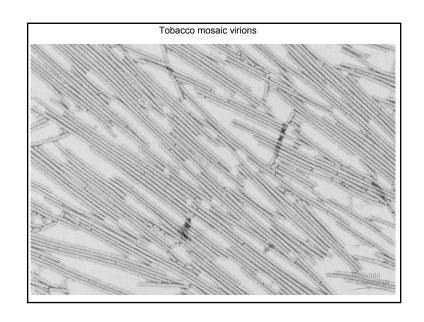
RNA tumor viruses (e.g., leukemia viruses); HIV (AIDS virus)

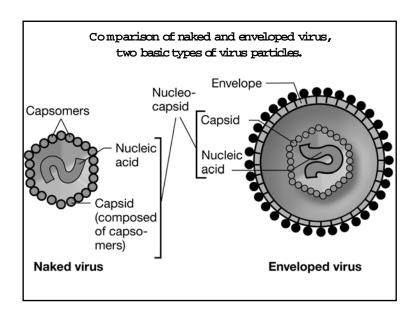
"The subclasses within each class differ mainly in capsid structure and in the presence or absence of a membranous envelope.
""ds = double-stranded; ss = single-stranded.

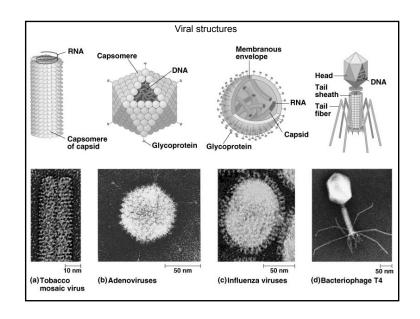
Retrovirus

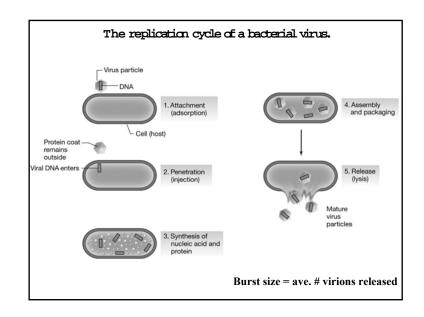


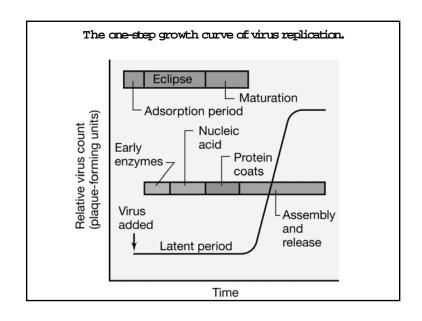


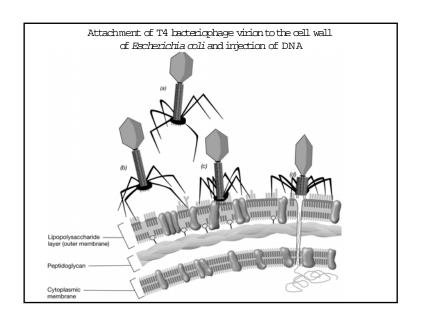


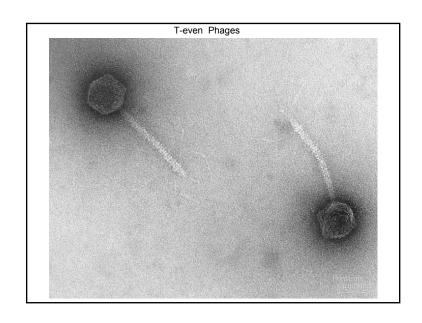


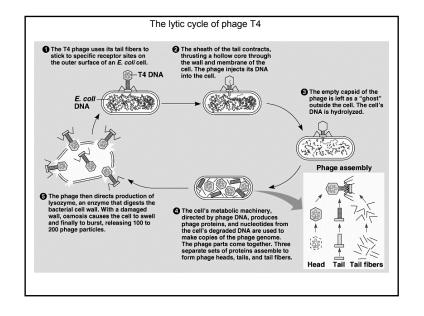


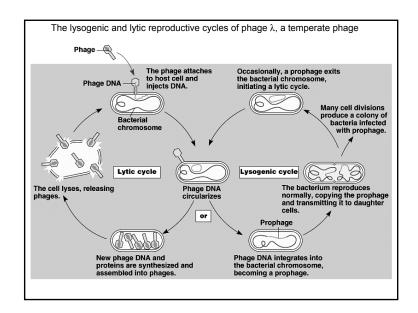


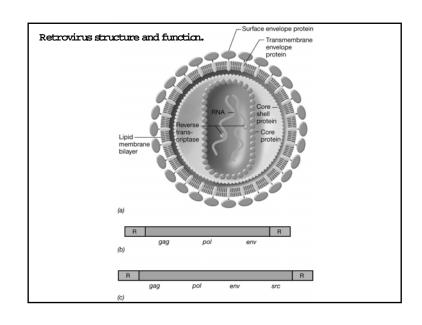


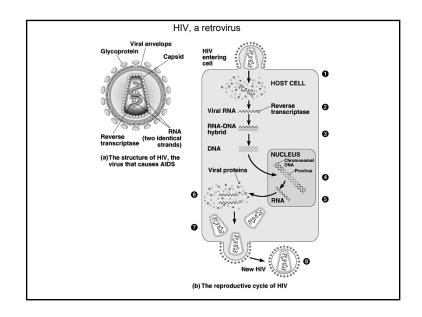


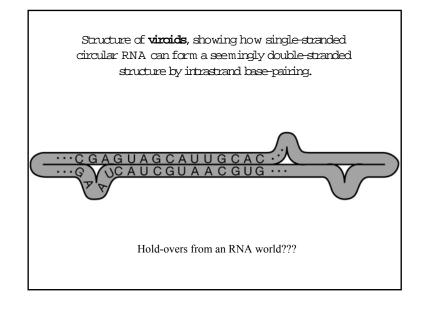


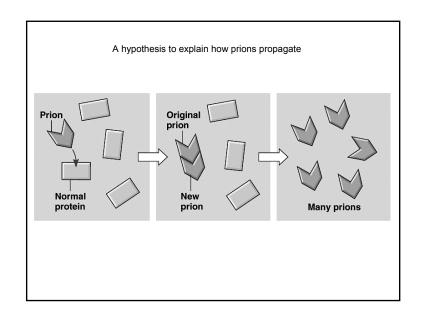


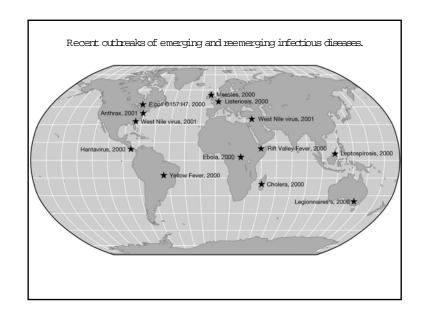


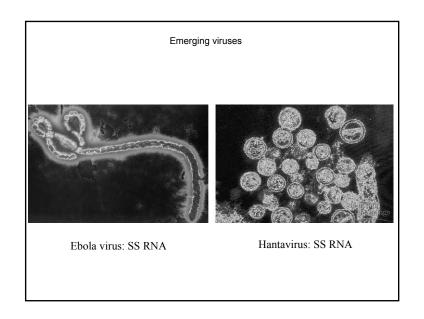


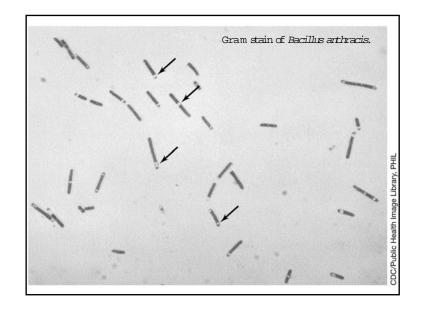












infection, and potential control (Part 1)			
Disease	Primary Reservoir	Potential Means for Control	
Human Contact and Respiratorily Contracted			
Streptococcal infections	Humans	Antibiotics; vaccine for pneumonia	
Staphylococcal infections	Humans	Antibiotics; antiseptics	
Meningitis	Humans	Specific antibiotics	
Tuberculosis	Humans	Test and treat infected persons	
Whooping cough	Humans	Vaccinate infants	
Diphtheria	Humans	Vaccinate infants	
Leprosy	Humans	Obtain proper treatment; vaccinate in endemic areas	
Pneumonic plague	Humans	Eliminate rats and fleas	

	Primary	Potential Means
Disease	Reservoir	for Control
Water-, Food-, and Soil-borne		
Cholera	Humans	Treat sewage and water; observe proper sanitation
Typhoid fever	Humans	Pasteurize milk; proper treatment of sewage; inspect food handlers
Shigellosis (dysentery)	Humans	Observe proper sanitation
Salmonellosis	Beef, poultry	Cook meat and eggs properly
Campylobacter	Animals, poultry	Pasteurize milk; thorough cooking of food and water
Tetanus	Soil	Vaccinate
Brucellosis	Cattle	Immunize cattle and pasteurize milk
Botulism	Soil	Properly can and cook food
Staph food poisoning	Humans	Refrigerate food
Legionnaire's disease	Aquatic environments	Clean misting equipment or do not us
Pseudomonas infections	Dust	Clean air in burn wards

	infection, and potential control (Part 3)				
Disease	Primary Reservoir	Potential Means for Control			
Sexually Transmitted					
Gonorrhea	Humans	Eliminate carriers; practice safe sex			
Syphilis	Humans	Eliminate carriers; practice safe sex			
Chlamydia	Humans	Eliminate carriers; practice safe sex			
Herpes Simplex Virus	Humans	Same			
Louse-borne, Human to Human					
Trench fever	Humans	Proper sanitation; control lice			
Relapsing fever	Humans	Control ticks and lice			
Typhus (epidemic)	Humans	Proper sanitation; vaccinate			

Major bacterial diseases of humans, sources of infection, and potential control (Part 4)		
Disease	Primary Reservoir	Potential Means for Control
Vector-borne		·
Rocky Mountain spotted fever	Mammals, birds	Wear protective clothing and examine body for ticks
Tularemia	Rodents, rabbits	Observe proper care when cleaning wild rabbits
Lyme disease	Deer	Wear protective clothing
Bubonic plague	Rats	Control rats, proper sanitation
Typhus (endemic)	Rodents	Control rats, vaccinate
Scrub typhus	Mites	Control mites
Animal Contact		
Leptospira	Vertebrates	Control rodents, vaccinate domestic animals
Anthrax	Soil	Sterilize wool, hair, other animal products
Psittacosis	Birds	Control bird imports
Q fever	Cattle	Vaccinate animal handlers

Table 30.4 The recommended immunization schedule for infants and young children in the United States		
Age	Vaccine Employed	
Birth	Hepatitis B	
2 months	Diphtheria; pertussis; tetanus (DPT)	
	Hemophilus B (Hib)	
	Poliomyelitis (OPV)	
4 months	DPT; OPV; Hib	
	Hepatitis B	
6 months	Hepatitis B	
	DPT; OPV; Hib	
12-15 months	DPT; Hib; chicken pox, measles,	
	mumps, rubella (MMR)	
4–6 years	OPV; DTP; MMR	

MICROBIAL LIFE , Table 30.4 © 2002 Sinauer Associates, Inc.