

BACTERIAL/VIRAL/PARASITIC/FUNGAL INFECTION RESEARCH PROJECT

Infection	Description	Websites
African Sleeping Sickness (African Trypanosomiasis)	Individuals become infected with African trypanosomiasis if they receive a bite from an infected tsetse fly, found only in Africa.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
AIDS	AIDS is caused by HIV (human immunodeficiency virus). By killing or damaging cells of the body's immune system, HIV progressively destroys the body's ability to fight infections and certain cancers.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Body Lice	Body lice are parasitic insects that live on the body and in the clothing or bedding of infested humans.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Botfly Larvae	Bot flies deposit their eggs on a mosquito, which in turn bite other animals and drop the eggs inside the skin. The larva grows in the host's body until it is fairly large.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov http://botfly.quiik.com http://www.ambergriscaye.com/pages/town/botfly.html
Botulism	Botulism is a rare but serious paralytic illness caused by a nerve toxin that is produced by the bacterium <i>Clostridium botulinum</i> that can be acquired through food.	http://www.niaid.nih.gov/publications/botulism http://www.mayoclinic.com http://www.cdc.gov http://www.nigms.nih.gov/news/releases/brief_simpson

		http://www.fda.gov http://kidshealth.org/parent/infections/bacterial_viral/botulism.html http://www.nlm.nih.gov/medlineplus
Candiru Fish	Also known as the urethra fish, the candiru can actually swim up the urethra of an unsuspecting bather and lodge itself firmly in place by flaring sharp spines along its gills.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov http://magazine.audubon.org/ask/9901.html
Chickenpox/ Shingles/ Herpes/ Mononucleosis	Herpes is the name of a group of viruses that cause painful blisters and sores. One kind of herpes, herpes simplex, causes both cold sores around the mouth and genital herpes. Another kind of herpes, causes chickenpox and shingles.	http://www.cdc.gov http://www.mayoclinic.com http://www.who.int/en http://www.niaid.nih.gov http://www.os.dhhs.gov
Cholera	Cholera is an acute, diarrheal illness caused by infection of the intestine with the bacterium <i>Vibrio cholerae</i> .	http://www.cdc.gov http://www.nlm.nih.gov/medlineplus http://www.cdc.gov/safewater http://www.who.int/en http://www.mayoclinic.com http://www.niaid.nih.gov
Ebola	Ebola hemorrhagic fever is a severe, often-fatal disease in humans and nonhuman primates. The disease is caused by infection with Ebola virus	http://www.cdc.gov http://www.nlm.nih.gov/medlineplus http://www.cdc.gov/safewater http://www.who.int/en http://www.mayoclinic.com http://www.niaid.nih.gov

Elephantiasis	Lymphatic filariasis is a parasitic disease caused by microscopic, thread-like worms. The entire leg, arm, or genital area may swell to several times its normal size.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Epstein-Barr	The Epstein-Barr virus most commonly causes mononucleosis, a disease that is characterized by fatigue, sore throat, loss of appetite, etc.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Ergot (LSD)	Ergot is a fungus blight that forms hallucinogenic drugs in rye bread.	http://www.os.dhhs.gov http://www.uh.edu/engines/epi1037 http://www.ext.nodak.edu/extpubs/plantsci/crops/pp551w http://en.wikipedia.org/wiki/Ergot http://www.botany.hawaii.edu/faculty/wong/BOT135/LECT12 http://pnw-ag.wsu.edu/smallgrains/Ergot.html http://www.cdc.gov
Giardiasis	Giardiasis is a diarrheal illness caused by a microscopic parasite, <i>Giardia lamblia</i> .	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov http://familydoctor.org
Gonorrhea	Bacteria that spread through semen or vaginal fluids during unprotected sex cause gonorrhea. It is characterized by thick discharge from the penis or vagina.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov

Hanta Virus	Hanta virus is a distant cousin of Ebola virus, but is found worldwide. The virus is spread by human contact with rodent waste. Dangerous respiratory illness develops.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Human Papillomavirus (HPV), Common Warts	Genital HPV is the most common sexually transmitted disease in the United States. HPV can cause genital warts and cervical cancer.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov http://www.4woman.gov/faq/stdhpv
Influenza (flu)	Influenza, or flu, is a respiratory infection caused by a variety of flu viruses.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Jock Itch, Athlete's Foot, Ringworm (<i>Tinea sp.</i>)	Jock itch is a common fungal skin infection that may affect the skin of your genitals, inner thighs and buttocks. Athlete's foot is a skin disease caused by a fungus, usually occurring between the toes. Ringworm is most common in children and involves red, itchy patches on the scalp, leaving bald patches.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov http://www.apma.org
Lyme Disease	Lyme disease is caused by the bacterium <i>Borrelia burgdorferi</i> and is transmitted to humans by the bite of infected blacklegged ticks. Typical symptoms include fever, headache,	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov

	fatigue, and a characteristic skin rash.	
Mad Cow Disease (Bovine Spongiform Encephalitis; BSE)	A disease caused by misshapen brain proteins (prions) that create sponge-like holes in brain tissue. A form of Creutzfeldt-Jakob disease is caused by exposure to BSE.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Malaria	Malaria is a serious and sometimes fatal disease caused by a parasite that is carried by mosquitoes. Patients with malaria typically are very sick with high fevers, shaking chills, and flu-like illness.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Polio	Poliomyelitis (polio) is a highly infectious disease caused by a virus. It invades the nervous system, and can cause total paralysis in a matter of hours.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Rabies	Rabies is a preventable viral disease most often transmitted through the bite of a rabid animal. Rabies virus infects the central nervous system, causing encephalopathy and ultimately death.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Salmonella food poisoning	Salmonellosis is an infection with bacteria called Salmonella. Most infected persons develop diarrhea, fever, and abdominal cramps.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Small Pox	Smallpox is a serious, contagious, and sometimes fatal infectious disease.	http://www.cdc.gov http://www.mayoclinic.com

	There is no specific treatment for smallpox virus, and the only prevention is vaccination.	http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Streptococcal Group A (Strep throat, flesh-eating disease)	Group A streptococcus infections are caused by a bacterium that causes a variety of health problems. These infections can range from mild skin infection or sore throat to severe, life-threatening conditions such as flesh eating disease.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Swimmer's Itch (<i>Cercarial dermatitis</i>)	Swimmer's itch, also called, appears as a skin rash caused by an allergic reaction to certain parasites found in certain birds and mammals.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Syphilis	Syphilis is a sexually transmitted infection. It is caused by a bacterium that initially causes an ulcer at the site of infection and can be passed through pregnancy.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Tapeworm (<i>Ascaris</i> or <i>Dipylidium</i>)	A dog or cat may swallow a flea that contains a tapeworm larva. The larval tapeworm is free to develop into an adult tapeworm, <i>Dipylidium caninum</i> . <i>Ascaris</i> is a worm that lives in the small intestine.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Tetanus	Tetanus is an acute, sometimes fatal, disease of the central nervous system, caused by the toxin of	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov

	the tetanus bacterium, which usually enters the body through an open wound.	http://www.who.int/en http://www.os.dhhs.gov
Toxoplasmosis	Toxoplasmosis is an infection caused by a parasite. If a pregnant woman contracts toxoplasmosis, there is a 40% chance that her unborn child will also become infected.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Tuberculosis (TB)	TB is a chronic bacterial infection. It is spread through the air and usually infects the lungs. Each year, 8 million people worldwide develop active TB and 3 million die.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Vaginal Yeast Infection (Candidiasis)	Candidiasis is an infection caused by species of <i>Candida</i> fungi, especially <i>Candida albicans</i> . Vaginal yeast infections are not usually transmitted sexually.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
Valley Fever	Valley fever is a lung infection caused by the fungal organism <i>Coccidioides immitis</i> . Valley fever was first identified in the San Joaquin Valley in CA.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov
West Nile Virus	West Nile virus is a mosquito-borne virus that can cause a range of symptoms of varying severity in humans. It may lead to inflammation of the brain, but rarely causes death.	http://www.cdc.gov http://www.mayoclinic.com http://www.niaid.nih.gov http://www.who.int/en http://www.os.dhhs.gov