

The Parvoviruses The Viruses



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Use of HeLa cells in parvovirus testing. Parvoviruses are specific viruses that are characterized by which receptors they attack. Testing found that parvovirus infects carnivorous animals through the oropharyngeal pathway. Parvovirus infects the oropharyngeal cells that come in immediate contact with the virus.

Parvovirus - Wikipedia

The canine parvovirus (CPV) infection is a highly contagious viral illness that affects dogs. The virus manifests itself in two different forms. The more common form is the intestinal form, which is characterized by vomiting, diarrhea, weight loss, and lack of appetite (anorexia).

Canine Parvovirus in Dogs: Causes, Symptoms & More - petMD

Parvoviruses are among the smallest and simplest eukaryotic viruses and were only discovered in the 1960's. Although known to be widespread in many organisms in nature, the first human parvovirus infections were discovered only in the last few decades.

The Parvovirus Family - Stanford University

Transmission. Parvovirus B19 can also spread through blood or blood products. A pregnant woman who is infected with parvovirus B19 can pass the virus to her baby. In parts of the world with changing seasons, people tend to get infected with parvovirus B19 more often in late winter, spring, and early summer.

Parvovirus B19 | About Human Parvovirus B19 | Fifth ...

The parvoviruses (parvo meaning small) are a group of very small DNA viruses that are ubiquitous and infect many species of animals. The small amount of DNA contained in the viruses does not carry sufficient genetic information to direct its own replication in host cells.

Parvoviruses - Medical Microbiology - NCBI Bookshelf

Unlike most DNA viruses, parvoviruses cannot drive non-cycling cells into S phase, but must typically wait for cells to make the transition under their own cell cycle control. This makes actively dividing cell populations essential for productive infection, and renders foetal or neonatal animals particularly vulnerable because they have a wide ...

Parvoviridae - Parvoviridae - ssDNA Viruses ...

Surface topography of the virus from the Institute for Molecular Virology - Wisconsin. Canine Parvovirus Molecular surface, radially depth cued, as solved by X-ray crystallography from the Institute for Molecular Virology - Wisconsin.

The Big Picture Book of Viruses - Parvoviruses - Virology

Overview. Parvovirus infection is a common and highly contagious childhood ailment — sometimes called slapped-cheek disease because of the distinctive face rash that develops. Parvovirus infection has also been known as fifth disease because, historically, it was one of five common childhood illnesses characterized by a rash.

Parvovirus infection - Symptoms and causes - Mayo Clinic

Canine parvovirus. Canine parvovirus type 2 (CPV2, colloquially parvo) is a contagious virus mainly affecting dogs, and thought to originate in cats. The current consensus is that the feline panleukopenia virus mutated into CPV2. Parvo is highly contagious and is spread from dog to dog by direct or indirect contact with their feces.

Canine parvovirus - Wikipedia

The Parvoviridae are single-stranded DNA viruses and among the smallest known DNA-containing viruses to infect mammalian cells. Parvovirus B19, which belongs to the genus Erythrovirus, is the only known human pathogen in this family. PARVOVIRUS B19. Parvovirus infection occurs mainly in school-aged children and teenagers.

Parvoviridae - an overview | ScienceDirect Topics

Parvoviruses . Parvoviruses are significant pathogens in the veterinary sciences. They are particularly associated with reproductive failure. The family Parvoviridae encompasses 3 genera which infect a variety of host species. They are small naked icosahedral viruses with a genome of a single-stranded DNA. The desonucleosis viruses infect insects.

Parvoviruses, Parvovirus B19 - virology-online.com

Canine Parvovirus. The virus affects dogs' gastrointestinal tracts and is spread by direct dog-to-dog contact and contact with contaminated feces (stool), environments, or people. The virus can also contaminate kennel surfaces, food and water bowls, collars and leashes, and the hands and clothing of people who handle infected dogs.

Canine Parvovirus - American Veterinary Medical Association

Transmission. Parvovirus B19 can also spread through blood or blood products. A pregnant woman who is infected with parvovirus B19 can pass the virus to her baby. Once you recover from fifth disease, you develop immunity that generally protects you from parvovirus B19 infection in the future.

Parvovirus B19 | About Fifth Disease | CDC

Abstract. The simian parvoviruses (SPVs) are in the genus Erythrovirus in the family Parvoviridae and are most closely related to the human virus B19. SPV has been identified in cynomolgus, rhesus, and pigtailed macaques. All of the primate erythroviruses have a predilection for erythroid precursors.

Simian Parvoviruses: Biology and Implications for Research

Parvovirus: Parvovirus, any virus belonging to the family Parvoviridae. Parvoviruses have small nonenveloped virions (virus particles), and the icosahedral capsid (the protein shell surrounding the viral nucleic acids) is made up of 32 capsomeres (capsid subunits) measuring 18–26 nm (1 nm = 10⁻⁹ metre) in

Parvovirus | virus | Britannica.com

Parvoviruses are among the smallest pathogenic viruses and their replication depends upon host cell DNA polymerase.. Their genetic material is single-stranded DNA, which may persist in tissues, potentially causing diagnostic confusion. • Human parvovirus B19 belongs to the genus Erythroparvovirus, typically replicating in erythroid precursor cells.. This specific tissue tropism determines ...

Parvoviruses - an overview | ScienceDirect Topics

The virus makes a replication enzyme but this is not a polymerase. It cleaves the DNA closed circle to make the single strand genomic DNA. The human parvovirus B19 is different from the parvoviruses which cause problems in cats and dogs. Humans appear to be the only natural host for human parvoviruses.

PARVOVIRUSES AND FIFTH DISEASE - Microbiology Book

Many other examples of parvoviruses have been discovered, including several that infect human cells. The first human parvovirus that was discovered is the B19 virus, shown here from PDB entry 1s58 . It causes a childhood disease called "fifth disease," so called because it was the fifth disease that was discovered that causes a similar rash.

PDB-101: Molecule of the Month: Parvoviruses

Start studying Parvoviruses (and other ssDNA viruses). Learn vocabulary, terms, and more with flashcards, games, and other study tools.

Parvoviruses (and other ssDNA viruses) Flashcards | Quizlet

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Parvovirus targets the epithelium of the small intestine, the lining that helps to absorb nutrients and provides a crucial barrier against fluid loss and bacterial invasion from the gut into the body. The virus that causes the disease known as “parvo”, canine parvovirus type 2 (CPV), first emerged among dogs in Europe around 1976.

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