

What Is The Meaning Of Pathogenic

"An H6N1 virus isolated from teal (A/teal/Hong Kong/W312/97 [H6N1]) showed very high (>98%) nucleotide homology to the human influenza virus A/Hong Kong/156/97 (H5N1) in the six internal genes. The N1 neuraminidase sequence showed 97% nucleotide... 3026e820bd == Genetics == 3026e820bd == Classification == 3026e820bd A VUS is most commonly encountered by people when they get the results of a lab test looking for a mutation in a particular gene. A 2016 study of genes commonly associated with hereditary breast and ovarian cancers... 3026e820bd An analysis of the C. rodentium genome has shown that prophage insertion has disrupted several of its genes, including the flagella biosynthesis pathways and galactitol metabolism. 3026e820bd

Variant of uncertain significance A "pharmacogenomic variant" has an effect only when an individual takes a particular drug and therefore is neither benign nor pathogenic. The term "variant" is favored in clinical practice over "mutation" because it can be used to describe an allele more precisely (i. When the variant has no impact on health, it is called a "benign variant". When it is associated with a disease, it is called a "pathogenic variant". Two related terms are "gene of uncertain significance" (GUS), which refers to a gene that has been identified through genome sequencing but whose connection to a human disease has not been established, and "insignificant mutation", referring to a gene variant that has no impact on the health or function of an organism. without inherently connoting pathogenicity). e. A VUS is most commonly encountered by people when they get the results of a lab test looking for a mutation A variant of uncertain (or unknown) significance (VUS) is a genetic variant that has been identified through genetic testing but whose significance to the function or health of an organism is not known. therefore is neither benign nor pathogenic 3026e820bd

Streptococcus thermophilus Research teams have sequenced the genome of two strains of S. It tests negative for cytochrome, oxidase, and catalase, and positive for alpha-hemolytic activity. thermophilus is fimbriated. separately from pathogenic Streptococcus species for at least 3000 years. thermophilus, Streptococcus thermophilus, formerly known as Streptococcus salivarius subsp. thermophilus, is a gram-positive bacterium and fermentative facultative anaerobe that is used for producing yogurt and other fermented milk products. It is non-motile and does not form endospores. S 3026e820bd

A/Fujian (H3N2) human flu (from A/Fujian/411/2002(H3N2) -like flu virus strains) caused an unusually severe 2003–2004 flu season. This was due to a reassortment event that caused a minor clade to provide a haemagglutinin gene that later became part of the dominant strain in the 2002–2003 flu season. A/Fujian (H3N2) was made part of the trivalent influenza vaccine for the 2004–2005 flu season and its descendants are still the most common human H3N2 strain. 3026e820bd

Transmission and infection of H5N1 agricultural vaccines. In fact, the root cause of the continuing H5N1 pandemic threat may be the way the pathogenicity of H5N1 viruses is masked by cocirculating Transmission and infection of H5N1 from infected avian sources to humans has been a concern since the first documented case of human infection in 1997, due to the global spread of H5N1 that constitutes a pandemic threat 3026e820bd

H5N1 vaccines for chickens exist and are sometimes used, although there are many difficulties, and it's difficult to decide whether it helps more or hurts more. H5N1 pre-pandemic vaccines exist... 3026e820bd

Control mastery theory Originally the theory was developed within a psychoanalytical framework, by psychoanalyst and researcher Joseph Weiss, MD (1924–2004). understand what caused the event and what they might do to avoid it. Therefore, another component thought to be important for the formation of pathogenic beliefs Control mastery theory or CMT is an integrative theory of how psychotherapy works, that draws on psychodynamic, relational and cognitive principles. The name of the theory comes from two central premises; the assumption that people have control over their mental content, and the belief that patients who come to therapy are fundamentally motivated to master their lives. CMT is also a theory of how the mind operates, with an emphasis of the unconscious, and how psychological problems may develop based on traumatic experiences early in life 3026e820bd

== History == 3026e820bd

Corn smut One of several cereal crop pathogens called smut, the fungus forms galls on all above-ground parts of corn species such as maize and teosinte. is a plant disease caused by the pathogenic fungus Mycosarcoma maydis, synonym Ustilago maydis. One of several cereal crop pathogens called smut, the Corn smut is a plant disease caused by the pathogenic fungus Mycosarcoma maydis, synonym Ustilago maydis. The infected corn is edible; in Mexico, it is considered a delicacy, called huitlacoche, often eaten as a filling in quesadillas and other tortilla-based dishes, as well as in soups 3026e820bd

Hao-Fountain syndrome The syndrome was first described in 2015 by Hao et al. and Fountain et al. , who identified pathogenic variants in the USP7 gene in individuals with neurodevelopmental abnormalities. behavioral symptoms. , who identified pathogenic variants in the USP7 gene in individuals Hao-Fountain syndrome (HAFOUS) is a rare neurodevelopmental disorder caused by mutations in the Ubiquitin Specific Protease 7 (USP7) gene. and Fountain et al. The 'Foundation for USP7 Related Diseases' formally announced the naming of the disorder as 'Hao-Fountain syndrome' in 2020, recognizing the contributions of these researchers. It is characterized by a range of developmental, neurological, and behavioral symptoms. The syndrome was first described in 2015 by Hao et al 3026e820bd

LCA symptoms typically begin in the first few months of life, most commonly with involuntary twitching of the eye (nystagmus). Affected infants may show misaligned eyes when looking at something (strabismus), aversion to light (photophobia), and poke or rub at their eyes (Franceschetti's oculodigital sign). Those with LCA invariably experience vision problems. Affected infants show decreased visual response to objects. Loss of visual acuity is severe, with affected individuals' vision ranging from 20/200 to 20/400. Around a third of those affected completely lose perception of light. 3026e820bd *C. rodentium* contains a conserved pathogenicity island in its genome, the locus of enterocyte effacement (LEE). The LEE encodes a type III secretion system which is critical to the infection and pathogenicity of *C. rodentium*. Only one virulence factor has been identified that is specific to *C. rodentium*: cfc (Colonization factor *Citrobacter*). cfc encodes the CFC type IV pilus, which has an unknown role, but may be related to multiple aspects of pathogenicity. 3026e820bd Hao-Fountain syndrome is an autosomal dominant disorder, meaning that a single copy of an abnormal USP7 gene is sufficient to cause the condition. Most reported cases are de novo mutations, meaning the genetic change is new in the affected individual and not inherited from a parent. The USP7 gene is located at chromosome 16p13.2. 3026e820bd == Signs and symptoms == 3026e820bd One form of LCA was successfully treated with gene therapy in 2008. 3026e820bd The USP7 gene encodes for ubiquitin-specific protease 7, a deubiquitinating enzyme (DUB). DUBs are crucial for regulating protein stability, localization, and function by removing ubiquitin tags from target proteins. USP7 plays a multifaceted role in various cellular... 3026e820bd Formerly it was placed in genus *Ustilago*, but in 2016, it was placed in genus *Mycosarcoma*. 3026e820bd It affects about 1 in 40,000 newborns. LCA was first described by Theodor Leber in the 19th century. It should not be confused with Leber's hereditary optic neuropathy, which is a different disease also described by Theodor Leber. 3026e820bd *C. rodentium* is an extracellular pathogen of rodents. While its specific structure has not been characterized in detail, several characteristics of this species can be inferred by its classification. As a member of the Enterobacteriaceae family, it is Gram-negative, rod-shaped, and non-spore-forming. 3026e820bd

Citrobacter rodentium The LEE encodes a type III secretion system which is critical to the infection and pathogenicity of *C. rodentium*. It infects the intestinal tract of rodents. *Citrobacter rodentium* is a Gram-negative species of bacteria first described in 1996. genome, the locus of enterocyte effacement (LEE) 3026e820bd

Fujian flu In fact, the root cause of the continuing H5N1 pandemic threat may be the way the pathogenicity of H5N1 viruses is masked by cocirculating See Influenza for details about the illnesses and Influenza A virus subtype H5N1 and Influenza A virus subtype H3N2 for details about the causative agents. agricultural vaccines 3026e820bd

The conversion to the Z genotype probably occurred by reassortment with an Eurasian teal (duck) virus H6N1 during a mixed influenza infection: 3026e820bd

Leber congenital amaurosis Genes associated with LCA have a variety of roles in the development Leber congenital amaurosis (LCA) is a rare inherited eye disease that appears at birth or in the first few months of life. meaning one must inherit copies of the pathogenic variant from both parents to develop LCA 3026e820bd

Fujian flu refers to flu caused by either a Fujian human flu strain of the H3N2 subtype of the Influenza A virus or a Fujian bird flu strain of the H5N1 subtype of the Influenza A virus. These strains are named after Fujian, a coastal province in Southeast China. 3026e820bd == Taxonomy == 3026e820bd It is also classified as a lactic acid bacterium. *S. thermophilus* is found in fermented milk products and is generally used in the production of yogurt, alongside *Lactobacillus delbrueckii* subsp. *bulgaricus*. The two species are synergistic, and *S. thermophilus* probably provides *L. d. bulgaricus* with folic acid and formic acid, which it uses for purine synthesis. 3026e820bd Infected birds pass on H5N1 through their saliva, nasal secretions, and feces. Other birds may pick up the virus through direct contact with these excretions or when they have contact with surfaces contaminated with this material. Because migratory birds are among the carriers of the H5N1 virus it may spread to all parts of the world. Past outbreaks of avian flu have often originated in crowded conditions in southeast and east Asia, where humans, pigs, and poultry live in close quarters. In these conditions a virus is more likely to mutate into a form that more easily infects humans. A few isolated cases of suspected human to human transmission exist, with the latest such case in June 2006 (among members of a family in Sumatra). No pandemic strain of H5N1 has yet been found. 3026e820bd The one-page article, "Crying at the Happy Ending" (Weiss, 1952), has been considered to mark the point where Weiss began to formulate the ideas underlying CMT. In this short article he described the phenomenon of delay of affect, where an emotion that connects to a particular upsetting situation is warded off until the situation has passed, and it is perceived safe to release the emotion. Following this, Weiss turned to focus on how patients make progress in therapy. Through studying detailed process... 3026e820bd

Goose Guangdong virus It is an HPAI (High Pathogenic Avian Influenza) virus, meaning that it can kill a very high percentage of chickens in a flock in mere days. It is believed to be the immediate precursor of the current dominant strain of HPAI A(H5N1) that evolved from 1999 to 2002 creating the Z genotype (also called "Asian lineage HPAI A(H5N1)") that is spreading globally and is epizootic (an epidemic in nonhumans) and panzootic (affecting animals of many species, especially over a wide area), killing tens of millions of birds and spurring the culling of hundreds of millions of others to stem its spread. It is a strain of the Influenzavirus A subtype H5N1 virus that was first detected in a goose in Guangdong in 1996. It is an HPAI (High Pathogenic Avian Influenza) virus, meaning that it can kill a very high percentage of chickens in a flock in mere days. It is believed The Goose Guangdong virus refers to the strain A/Goose/Guangdong/1/96 (Gs/Gd)-like H5N1 HPAI viruses 3026e820bd

Mycosarcoma maydis is the best known and studied fungus of the Ustilaginomycetes, a sub class of Basidiomycota, and is often used as the exemplar species when talking about its entire class. 3026e820bd At an eye exam, the pupils may not respond normally to light. Some affected individuals have cloudy eyes (cataracts), and irregularly shaped corneas (keratoconus)... 3026e820bd *S. thermophilus* has an optimal growth temperature range of 35–42 °C (95–108 °F), while *L. d. bulgaricus* has an optimal range of 43–46 °C (109–115 °F). 3026e820bd A/Fujian (H5N1) bird flu is notable for its resistance to standard medical countermeasures and its rapid spread. This variant of the H5N1 virus also illustrates the continuing evolution of the H5N1 virus, and its emergence has caused political controversy. 3026e820bd == Cell morphology and features == 3026e820bd At least 26 strains of *S. thermophilus* have been identified and had their genomes sequenced. 3026e820bd

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