MyBiosource Inc Traces the History of Viruses and Bacteria

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MyBiosource Inc, a company based in San Diego, CA, has recently released a blog post that traces the history of viruses and bacteria. Viruses are the most abundant organism on Earth and they function by infecting the host?s cells for the purpose of reproducing. Each type of virus will spread in a slightly different way. It could be by touch, swapping of bodily fluids, contamination of food, airborne pathogens, contaminated water, or insect bites.

The more organisms a virus can spread to, the more likely for it to evolve. This is because as the viruses make copies of themselves, mutations or slight errors in the DNA code, occur, which may result into viruses with a slightly different characteristic, such as a better survival rate.

It should be noted that not all viruses are harmful to humans. In fact, there are many friendly bacteria and viruses in the gastrointestinal tract. They have formed a symbiotic relationship in that they help in the digestion of food while they are able to survive by working with the host.

Meanwhile, the most common viral diseases include: smallpox; the common cold and different types of flu; measles, mumps, rubella, chickenpox, and shingles; hepatitis; herpes and cold sores; polio; rabies; Ebola and Hanta fever; HIV, the virus that causes AIDS; severe acute respiratory syndrome (SARS); dengue fever, Zika, and Epstein-Barr; and more.

Bacteria are single celled organisms with a cell structure that is much simpler compared to the cells of the human body. They have no nucleus but just a single loop of DNA. There are five main types of bacteria, based on their shape. Just like with viruses, there are also good bacteria, which are usually found in the digestive system.

Bacteria are different from viruses in that they are considered to be living organisms. Technically, viruses are not living organisms because they can?t exist without a host. Bacteria reproduce by binary fission, which is the process where it divides itself into two cells that are exactly the same. Viruses are unable to reproduce on

their own. They need to use the host cell?s protein synthesis pathways to create the proteins that make up the virus and then assemble these into a complete virus.

Bacteria can protect themselves by forming an endospore or outer shell. Bacteria, just like viruses, can evolve fast because they can multiply quickly. Meanwhile, antiviral drugs can be used to a fight a particular type of virus or a wider spectrum of viruses. Antibiotics are used to treat bacterial infections. And vaccines may be used to prevent an infection. The principle of vaccination is to expose the body to a small portion of the virus so that the body will produce antibodies to destroy it. And when the real virus comes around, the immune system recognizes it and releases the antibodies to kill it.

Meanwhile, MyBioSource is a top provider of research reagents for COVID-19 and other diseases, including traditional and humanized antibodies, PCR kits, IgG/IgM serology antibody assays, recombinant proteins and more. They can also provide various kinds of Enzyme Linked Immunosorbent Assay (ELISA) kits for a broad range of species and targets. These ELISA kits can be used for detecting various proteins, peptides, and antigens, such as EGF, VEGF, and different cytokines. They also have a vast catalog of ELISA kits for studying a range of disease states and biochemical pathways, including cancer, oxidative stress, and the insulin signaling pathway.

They also offer various coronavirus test kits and related items. The methods used for studying COVID-19 (SARS-CoV-2) are multifaceted and new items are being developed at very fast speeds. Collectively, COVID-19 and coronavirus items from MyBioSource can be categorized into broad areas. For instance, Lateral Flow/Immunchromatography Products and IgM/IgG ELISA Kits can be used for detecting antibodies against COVID-19. This may show that the immune system has produced antibodies against the SARS-CoV-2 viral pathogen. PCR Reagents have also been developed to detect the SARS-CoV-2 virus itself as compared to IgM/IgG ELISA Kits which merely detect antibodies against the virus. One technique is to use combinations of reagents to detect the virus and IgM/IgG assays are used to monitor immune responses.

People who are interested in learning more about the history of viruses and bacteria can go to https://www.mybiosource.com/learn/history-of-viruses-and-bacteria/ and those who would like to know more about the different research reagents and kits can visit the MyBiosource Inc website, or contact them through the phone or via email.

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MyBiosource Inc

Founded in Vancouver, British Columbia in 2006 by three entrepreneurs passionate about providing the best biological reagents worldwide, MyBiosource, Inc. Since 2007, we have relocated our headquarters to sunny Southern California, San Diego (USA).

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