

Human corona viruses were first identified in the mid-1960s. There are seven corona viruses that can infect humans. One of them is the novel SARS-CoV-2, which causes the disease Covid19. It belongs to the group of beta-corona viruses that cause acute respiratory syndrome (SARS).

In addition to visible light, the sun also emits UV-C radiation. However, these wavelengths are filtered out by the earth's atmosphere (ozone layer). Thus, in the course of evolution, no living being, no microorganism has ever "seen" UV-C light and thus no protective mechanism against UV-C radiation has been formed. UV-C radiation has a killing effect on all microorganisms, regardless of the medium - air, water or surface. In the case of SARS-CoV-2, UV-C radiation destroys the carrier of genetic information of the virus - RNA (ribonucleic acid). This stops any further reproduction of the virus and the virus is rendered harmless.

The scientific studies of recent years have also determined the UV-C dose necessary to inactivate SARS-CoV. The latest independent research on the novel SARS-CoV-2 (University Hospital Frankfurt am Main, University of Miyazaki (Japan), University of Boston (USA), etc.) has only confirmed the previous studies - a certain UV-C dose leads to the destruction of these viruses. The UVC-disinfection devices of uv-technik meyer gmbh are designed and built on the basis of these findings.