

## Information About Corona, Viruses in General and About Health

Excerpt from the 757<sup>th</sup> contact of the 15<sup>th</sup> of November, 2020, 9:21 pm

**Billy** ... What I still have is that three days ago you said that you had forgotten to say something during your explanations with regard to the rampantly spreading corona disease. Therefore, I think that although these matters are no longer to be discussed, perhaps it would still be necessary for you to disclose that which you omitted or forgot to say? Besides, I think that further open information is necessary, because as I have repeatedly noticed already since the beginning of the rampantly spreading disease, everywhere the world's population is being taken for fools by the governments and so forth, whereby in this regard Switzerland in particular is at the forefront with its concealment of information and failure to take most urgently needed measures with regard to precautions, behaviour and prevention of the spread of the rampantly spreading disease. In this respect the incompetence of those responsible for the safety and health of the people in the national leadership is frighteningly apparent, as is also evident that effective facts of incidents are simply concealed from the people and that they are left groping in the dark. This happens on the one hand, whereas, on the other hand, occurrences that verifiably come about are first proclaimed, only to be trivialised or even denied shortly afterwards and presented as if they, the responsible ones of all kinds, had succumbed to deception or something.

**Ptaah** Do you think so? But that which you say also corresponds to my observations, whereby I see the whole of the behaviour regarding this, as it is handled, as an irresponsibility.

**Billy** Yes, I think so too, and additionally I thought about the fact that it would perhaps be good if we did not stifle this topic once and for all, because it can be possible that something of enormous importance may arise from time to time, such as questions from FIGU members or other readers of our website, for which I am then supposed to provide information. Then it can also be the case that I have to check back with you. And regarding questions, I also often get them from all over the world. However, I think that talking about this topic should only happen when it is of a particular importance.

**Ptaah** I have not thought about this and therefore have not considered this side. However, when I now hear your argumentation, then it seems to me to be a good rationale; consequently, we can deal with this topic further in our talks if there is a need for this or that.

**Billy** Thank you, that is good, however, it should remain the case that effectively only important things are spoken of. Then you could still now clarify that which you still wanted to say a few days ago. After that, I still have something regarding health.

**Ptaah** Well, then I will begin with it and also say that, if the mentioning of medical terms is required, I will use the terrestrial terms for that. Furthermore, I will repeat some things several times in order to make them memorable and to keep them in mind for those who will then read our conversation and learn from it when you have retrieved it and written it down, after which it is to be placed on your FIGU website. Also to begin with I would like to point out once again – as I have done several times in recent months – that viruses are not life forms.

- 1) Viruses do not have their own metabolism and consequently cannot reproduce themselves. Therefore, as organic structures they misuse – similar to parasites – a suitable host organism with equally suitable host cells for their reproduction, which I will explain in more detail later.
- 2) When we Plejaren observe which measures are being taken by the leaders of the countries, in Europe as well as in all other terrestrial countries, against the rampantly spreading corona disease, that is to say, for its containment, then these correspond altogether to no more than token exercises and pitiful attempts to simply do something in order to keep up the appearance that the duty to protect the population is being fulfilled, which, however, is neither right nor responsible. This is the fact, whereby in addition to that, various responsible ones of the countries, offices and authorities, in many population areas, belong to those groups which, by means of know-it-all-ism, conspiracy theories, misguidedness and querulousness and so forth, deny or play down the rampantly spreading disease. Thus, generally observed, it also happens, however, that in all countries, on the one hand, too little, and, on the other hand, altogether not that which is necessary and right is being done to counteract the rampantly spreading disease. You have indeed already spoken several times about Bavarian Prime Minister Söder, who is indeed the man in Germany and even throughout Europe who has the intellect, rationality and intellectum to such an extent that he assesses the situation correctly and acts in the best possible form, rightly and comprehensively. However, the fact that even he cannot do everything in the necessary radical form that would be unavoidable is prevented by powers in his government that intervene just as pervasively against the necessary measures.
- 3) If one observes the powers which in the national leaderships, offices and authorities invokingly emphasise the economy, as is the case everywhere in all industrialised countries, which are also joined by other irrational powers of other

countries, then it can be recognised that the whole thing is getting more out of hand every day. The governors of all nations – which also applies to Switzerland – direct themselves, in their inability to lead and assess situations and measures, according to the wishes of the economic giants, who only indulge in their profits. The national leaders, offices and authorities, in their inability to lead with regard to the health and safety of the peoples, are criminally aligning themselves in such a form that the rampantly spreading corona disease unavoidably cannot be brought under control until the next century and will claim millions of lives. This will occur in all European countries equally and without exception, as well as in various other countries, whereby, however, the United States of America in particular is leading the world in all irrationality and governmental incompetence. This is the fault of the incompetent leaders of the nation, which will not only call forth masses of corona deaths, but also political unrest.

**Billy** Yes, this has been happening ever since this presidential prat, Trample-Tramp-Trump, loud-mouthedly played down the rampantly spreading corona disease, wherethrough in the USA alone, as a result of his imbecility, already soon some 400,000 human beings will die from the corona virus. ...

Now I have strayed again from the actual topic, because I still wanted to say that not only in the USA, but also in Brazil their national boss, Bolsonaro, is in every respect an incompetent, irrational, might-greedy idiot who also provokes the worst possible things for the people, which, as in the USA, will cost several hundreds of thousands of human lives. If I remember correctly, then, as I said, during the next 3 months the US will have to expect an official corona death toll of around 400,000, Brazil over 210,000 and India 160,000. The US states will officially be in the front line, and this is besides the unreported cases. But even our small Switzerland will have to lament a number of about 9,000 corona deaths in the same time, just as all the EU dictatorship states will in 3 months have to be mentioned with officially high numbers of corona deaths; for example, Spain with about 55,000, Italy 83,000, France 70,000, England with over 85,000 and Germany around 55,000, while during the same time then worldwide, just officially, far more than 2 million deaths will be registered. These are the approximate figures, if I remember correctly, whereby they will, however, really only be based on official figures, because the total number of unreported cases will be much higher. China also continues to be afflicted by the rampantly spreading disease, causing many deaths, while, however, everything is kept concealed, and it is claimed that the disease has been eradicated. However, this lie cannot hold its ground for long, because it will already be partially exposed in January next year.

Now, along with everything that has been said, that which will also be the case relates to that under some circumstances the freedom of the human beings with regard to the self-determination of whether or not they want to be vaccinated will be restricted and they will be forced to vaccinate. Ultimately the whole thing, should it come about, could lead to the vaccinated being given more rights and the unvaccinated ones being labelled – Hitler and all the Nazi consorts would then send their regards, as it was back then, when the Jewish believers were discriminated against with a yellow Jewish star on their chests and sent to the gas chambers. The fact regarding this is that the racial hatred of that time was not such but rather a religious hate, because there is only one human race on Earth and not two, which is obviously still not comprehended by the scientists. And about that I think that such a thought is absolutely not absurd, if one considers the god-believing mode of thinking by the scientists. And that which will result from this can be expected just as ‘joyfully’ as also that the NATO and WHO as well as China and others will vehemently deny that the coronavirus was secretly tinkered with and concocted in Chinese laboratories as early as the 1970s as a result of an American's evil hatred of the USA, and that it has evolved through thousands of mutations – which are still going on and are already on the rise and even more aggressive – into the Covid19 of today. In the new year, the WHO in particular will give itself airs, wanting to find the origin of the rampantly spreading corona disease, in order to then invent a factual horror story and to spread the claim that the origin of the rampantly spreading disease had been discovered. However, first it will be the case that China will block investigations into the origin of the disease and will not allow the WHO into the country because it will be feared that certain concealments concerning the corona sufferers could be uncovered. The effective fact, however, will never be able to be fathomed, just as no one wants to know the truth about it, because the USA will have another blemish in its otherwise already contaminated clean book, because of the err...

**Ptaah** You should not say anything about that, ...

**Billy** ... But what will now happen in the coming months with regard to the rampantly spreading corona disease will unfortunately be extremely unpleasant and cost very many human lives. Even if some things are done, it will, on one hand, only be half-way the right thing to do, but, on the other hand, it will also only be half-way enough, because the wrong things are being done. And this is also done by the governments squandering vast amounts of money to save companies, corporations and organisations from going bankrupt, which will then go bankrupt anyway. And all this nonsense is carried out because the governors are incompetent in their positions and make everything worse and worse. And they do this also with airline companies and travel companies, to whom they transfer masses of money, without considering that air tourism and other travel tourism ought to be completely stopped, namely, on one hand, to prevent further spreading of the rampantly spreading disease in this form, but, on the other hand, also so that the atmosphere, the climate, nature and its fauna and flora as well as all ecosystems as a whole would be much less polluted with destructive greenhouse gases and the climate

would be less impaired in a devastating form. But the governors are not clever enough to recognise and implement this necessity, just as a large part of the peoples would not be clever enough to accept and implement this if it were ordered. Low intelligentum (In contact 750, Billy explains, "...these days practically no longer anybody knows that 'intelligence' is only the intellect-memory, but does not describe the cognition and also not the intelligentum, nor the information processing of the human being. That is why the so-called IQ is erroneously and foolishly 'measured' with the intellectual memory, namely with the term 'intelligence' – which we have already spoken about before. This is because 'intelligence' in reality has nothing to do with the 'intelligentum' and thus has nothing to do with intellect, rationality, knowledge and absolutely nothing to do with the extent of knowing the general performance capacity related to the intellectum." Please see contact 750 to understand more.) and simple-mindedness just know no limits, consequently both the majority of those governing and a large part of the peoples are afflicted by it, wherethrough the rampantly spreading corona disease is able to not only really strike now and claim tens of thousands of human lives, but also the overpopulation can keep growing tremendously and through its machinations drive the planet, all ecosystems, the nature and its fauna and flora as well as the atmosphere and the climate into the total downfall. ...

**Ptaah** Unfortunately, all this will come about as you say, and it comes to this because the right thing is not comprehensively recognised and done, but is wrongly acted upon, namely both by the leaders of the nations and also by a part of the querulous ones of low intelligentum from all strata of the population. Those who want to do the right thing are pushed down and they – how did you once say it in such a context – are fighting against windmills, by which you probably meant that they are fighting pointlessly against the wind that cannot be stopped and ...

**Billy** Excuse me for interrupting you, ...

**Ptaah** ... But then I want to take up my topic again now.

**Billy** Do you mind if I first still get to something that is going through my thoughts, before I forget? Unfortunately, that is the case sometimes, because it happens again and again that I lose track of questions or something when I ... well, that is just as it is.

**Ptaah** Of course, go ahead.

**Billy** It concerns the vaccinations against the corona virus, which are to be carried out next month in various countries, as I still know from the time with Sfath, but as you also said the other day. Normally, such vaccine products take 10 to 15 years to develop, in which case also extensive testing is carried out and good positive things must result from it. This happens before they are recognised as good and right by a medical expert commission. However, that which is to be done now regarding the forthcoming untested vaccination; about that you said yourself that it is negligent and irresponsible. It seems to me that these very early vaccinations, which according to you are to be carried out from December, can only come about by ignoring all the tests and examinations and disregarding all medical-ethical forms.

The human beings' fear and panic will be consciencelessly exploited, which inevitably results from the promotion of 'preventive' vaccinations, but which I have to declare in such a relativising form by saying 'that it could be in this form', because as you know, they would not be afraid to sue me for business and product damage. Consequently, I therefore say that it is up to all those who read our conversation to decide what they want to do and not do, how and what they decide or not, because in regard to the whole, I can neither say what effectively corresponds to one thing or another thing mentioned in which form, because I do not know the corresponding circumstances and results, therefore I cannot even hand out, that is to say, give advice. Therefore, to which extent each human being confronts and acts on the fear and scaremongering has to be his/her own decision. And this fear and panic are further promoted with the prospect of early vaccinations and the human beings become more willing to let themselves be vaccinated, which ensures the vaccine product manufacturers that they can in this form, by means of large-scale vaccinations, still make up for the omitted tests later and still do it. This is done by abusing whole sections of the population as guinea pigs without their knowledge that they have to serve as test figures, in which case they are not informed that they can already suffer severe late effects in terms of health damage after the vaccinations and after a recovery already after only 2 or 3 months, and, under some circumstances, will have to struggle with this for the rest of their lives. This happens on one hand, while, on the other hand, through these forthcoming actions, influences on the virus can also arise and lead it to a new transformation as you have clearly said.

And indeed this happens in addition to that which we talked about the other day, that – since the rampantly spreading disease is now in full swing and, moreover, a new dangerous mutation has been approaching since July, which, however, if I remember correctly it was what Sfath and I observed at the time – it was the month of December that became the talk of the town when the new kind was discovered. Therefore, if I am not mistaken, then some more unpleasantness will come up next month. This also applies regarding the fact that in the governments of various countries idiots will appear who will strive for a separation of the vaccinated ones from the unvaccinated ones. That which we also observed were evil consequences of a moral nature, because the vaccination not only brought about this separation nonsense in the irrational ones

in governments, but also created hatred among the vaccinated ones and unvaccinated ones in parts of the population. The reason was that parts of the vaccinated ones became convinced that the unvaccinated ones would be to blame for masses of further infections, while conversely, parts of the unvaccinated ones became spiteful towards the vaccinated as a result of favouritism. I can also remember that voices were raised in governments, authorities and also in sections of the population that compulsory vaccinations should be carried out, but Sfath and I had not been able to observe what came about from that. But that was not enough, because other very great unpleasantnesses arose, such as more murder and manslaughter than usual, namely also in families, where quarrels, acts of Gewalt (“There is no English word that conveys the true meaning of the German word ‘Gewalt’. ‘Gewalt’ is the brutal execution of elemental might and force, but it is far above all might and all force. ‘Gewalt’ exists in different and relative forms, one example being a ‘gewalttätige Gesinnung’ – expression from the character, personality, thoughts, feelings and emotions that shows the inclination to act with Gewalt. When human beings possess or carry out acts of Gewalt and it is not based in logic, then this usually involves violence, brutality, degradation and is terribly destructive.” (Meier, BEA 2010, *The Goblet of Truth*, page XIII, footnote)) and outbreaks of rudeness among the earthlings increased considerably, in addition to the fact that by the end of the year 2020, around 82 million human beings were officially affected by the rampantly spreading disease, but there were also around 2 million dead to be mourned. The rampantly spreading disease brought about strong upsurges and down-surges, that is to say, the contagions and death figures spilled up and down and then accumulated in millions. The reason for this was that, in the first place, all those responsible in the governments failed with regard to it because, due to their inability to lead, they did not order and implement all the necessary and required measures by which the pandemic could have been contained and even prevented and at most could have become a mild epidemic. Also the government agencies responsible for rampantly spreading diseases, as well as many virologists and other experts and so forth, failed to understand and comprehend the effective situation, and consequently they did not take action in the form that they should have done. On the contrary, those in government and the virologists, and so forth, disregarded all their other colleagues, collaborators and other ones who were admonishing who made efforts to approach everything in the right form, to take the necessary measures, to enforce them and therethrough nip the whole evil rampantly spreading disease in the bud. But then there were also those densely of low intelligentum, the simple-minded ones, the ones of bean-straw-like low intelligentum and the querulous ones, the know-it-alls and the simple-minded conspiracy theorists and those who stubbornly resist ordinances or deliberately undermine them, who threw all the otherwise already inadequate orders to the wind and held mass events through demonstrations, wherethrough more and more terribleness was caused by an uncontrolled spread of the rampantly spreading corona disease and claimed more and more victims.

Well, in addition to the completely inadequate action against the pandemic, the rampantly spreading disease was able to continue to enjoy its own development and constantly new transformations, that is to say, mutations, as is also happening now with the new and even more dangerous virus variant that began to develop at a rapid pace in July and will only be recognised during the following month, if I remember correctly. Consequently, another new mutation will take place in the near future and, accordingly, the 5,000<sup>th</sup> transformation will soon take place since the beginning and first release of the rampantly spreading disease in the 1970s.

However, the vaccination-transformation procedure of the virus, which is now also producing a new and more dangerous mutation, which has been developing again since July, as you have also ascertained and which you also mentioned two weeks ago, namely that this virus will be more aggressive than the previous one – and this was already explained by Sfath in the 1940s – will be just as little known to the scientists of today just as they could also not really understand the virus that is currently transforming. Consequently, he said, as I remember very well, the virologists and so forth would, on one hand, deny all of that which is real, as they, on the other hand, would also claim that a once effective remedy, cure, that is to say vaccination, which was successful against one pathogen and brought or has brought healing for human beings, would also prove itself against a new one which comes from a changing, that is to say, mutating and newly emerging pathogen of a similar kind and should guarantee life, but would be maltreated in such a form that everything would collapse without hope of rescue. And that which ultimately results effectively from this, that ... but no, I must not talk about that.

However, as he explained, that was explicitly wrong, because not all such medicines or remedies and vaccinations and so forth would prove to be useful in this form because, depending on the pathogen, there would under some circumstances be enormous differences in this respect, as was also the case with respectively new influenza viruses, consequently a further use could be just as successful as it could be unsuccessful and disadvantageous or even completely useless or even life-threatening. And such could also arise with the untested vaccines that would be negligently and irresponsibly used for vaccinations even in the year 2020, which under some circumstances could lead to severe late complications or even deaths. But that which will happen as a result of the vaccinations, which will soon be carried out in a large frame worldwide as mass vaccinations with unproven vaccines and, under some circumstances, partly criminally with falsified pseudo-substances, that is to say, placebo serums and thus sham vaccines, from which then naturally certain results or good or bad consequences will come about, will be kept silent. The whole of the legal vaccination programs – in which in and of itself no or only a few counterfeit pseudo-materials will flow – brings immense benefit to the vaccine manufacturers, because the human beings’ anxiety about the rampantly spreading corona disease pushes them to vaccinate, wherethrough the manufacturers can carry out their tests and trials free of charge, while otherwise they would have to pay the test persons who volunteer for the tests each time and do not know what effects they have to expect as ‘test animals’ and thus in any case always run a dangerous health risk.

If the whole of the coming vaccination marathon is observed and considered, which various companies and corporations worldwide have been working towards for months with regard to vaccine research, then it arises, as I know, that the public is not provided with any effective valuable information by the vaccine serum manufacturers and the governments and authorities and so forth about the actual effects of the vaccinations, that is to say, vaccines that are administered to human beings. Consequently, so I think, various things will be concealed about that which we have been able to observe and ascertain, as well as the fact that, in part, certain vaccines are as good as placebos and are therefore ineffective ...

**Ptaah** I want to interrupt you there. About that my father has recorded some of the things you observed together in his notes, which I want to mention and recall in particular. Only ... yes, I have it there, look here, I will translate it for you immediately, whereby I will omit this ..., yes, I will omit that and only translate the following as a further point. Father has written:

4) ... Also this will probably be kept concealed, as will that certain vaccines will not work because they are only partially or completely useless, or because they could be 'smuggled', criminally adulterated products. We have also noticed, when we observed everything, that nothing was explained about with which vaccines the organisms of vaccinated persons developed antibodies and which ones did not create any, because they were useless or corresponded to fakes. Eduard was shaken when he recognised how consciencelessly the human beings were being deceived and, moreover, how their helplessness as test persons was being abused for scientific tests of vaccines and for corresponding investigations, and everything only to gain profits.

Eduard, however, was very attentive and, as always, listened to my explanations with great concentration, where through he integrated everything to his memory and will always have it present. He was particularly affected when we observed that various vaccinated persons ... after a short time or long-term became ill, suffered or a part of those even died as a result of vaccines, which will be the case when the time for it comes. We also observed how, regardless of vaccination, various human beings fell ill with the rampantly spreading corona disease, others did not become immune and consequently, regardless of the vaccination, continued to carry the virus of the rampantly spreading disease and infected many other human beings. This happened and it also occurred – which we also ascertained – that a human being who is infected with the virus will not have any positive results regardless one or more correctly performed tests, even though they were infected with the virus and thus transmitted the rampantly spreading disease to other human beings.

I have marked this passage in order to read to you and transcribe it into your mother tongue because, I feel the need for you to repeat it.

**Billy** Yes, I understand, and I still remember very well all further things that Sfath said and explained to me about that. At that time, I was only 15 years old, if I remember correctly, because it was about a year before your father left and then Asket came.

On the aforementioned notes you got from Sfath ... well, some I will leave out when I retrieve and write down our conversation.

**Ptaah** You are not mistaken regarding your age, because Father dated this passage to the terrestrial year of 1952. However, as far as the omission of records is concerned, you should not do so, because that which has been mentioned corresponds to the facts as they occurred exactly when you observed everything together and as it is now occurring and will undoubtedly continue to occur.

**Billy** That may well be the case, however, I am not sure whether or not I will then be maliciously attacked, insulted and demonised, namely by all those earthlings of the governments, virologists, doctors, god-believers, fear-mongers and vaccine believers and so forth who believe that the vaccines and the vaccination are the gold standard for containing and ending the rampantly spreading disease. If I retrieve everything openly and write it down, I could under some circumstances still be sued maliciously and it could be used against me, to hang me, namely especially by the companies and corporations that produce the vaccines; but also the authorities, governments, virologists and doctors could come after me and claim that I am spoiling the vaccination for many and that I would keep them from it to their detriment and death. Therefore, I think it would be very well possible for me to be held liable.

**Ptaah** Neither you nor I have said a word about how any person should, in any form, do something indefinite or definite, because what we have done, said and explained throughout our whole conversation has been nothing other than stating facts. Neither you nor I have recommended any action nor said anything specific that should be done. We have only stated existing facts that you and my father have established, nothing more. And these facts are now verifying themselves.

**Billy** I know that, but the earthlings will not understand that the crux of the matter will not lie in these vaccinations alone, rather that it is based in the necessary safety precautions that would have to be taken, but which are only partially

decreed and likewise only partially accepted and carried out by sensible ones, while about ¼ of the population, who are of low intelligentum and simple-minded, rowdily go against them. This quarter, however, is sufficient that the rampantly spreading disease will continue to spread and claim more and more victims; consequently, in about three months we can expect over 100 million infections worldwide just with official figures, and with well over 2 million dead. These figures are probably correct, if I remember correctly.

With regard to all that which we saw and experienced at that time, probably nothing or very little will be announced about this, as well as other factors in general that would be necessary information for the populations, such as especially the fact that the vaccines will not necessarily be tested professionally, rather only in a negligent form. Therefore, the vaccines can be good, halfway useful, effectively effective or useless. Therefore, only half or no protection at all against the rampantly spreading corona disease can be guaranteed, rather, on the contrary, vaccination can under some circumstances even be partially or severely harmful. Of course, one or another vaccine can be good, effective and useful, but the fact will remain that they will not have been sufficiently tested and will therefore under some circumstances be risk products. At least these facts will become known to the population, as we have been able to ascertain, however, this will be precisely the reason why many will not let themselves be vaccinated – namely for a good reason. Therefore, as a rule, in the coming vaccination campaigns it will only be those who let themselves be vaccinated who do not know the fact that, on one hand, the vaccines have not been sufficiently tested and are not useful under some circumstances and, on the other hand, that they themselves will be the vaccine guinea pigs.

And all the non-informing and the fact of the vain keeping of silence towards the public will – according to my opinion – lead to the fact that about ¼ of the populations, who are of low intelligentum and simple-minded, will rebel and be rowdy, demonstrate and cause destruction, and so forth, against all the otherwise already insufficient and not very effective orders by the governments and authorities, such as lockdowns and so forth. The governors themselves, however, are not blessed with great intelligentum either, let alone with a reliable intellect and luminous rationality, because they have not so far and will probably not for a long time recognise and do that which would be right in accordance with the increasingly precarious corona situation. As I assess these people: all their wisdom will be to assume that the corona problem can be solved and brought to an end with vaccinations and lockdowns. This, however, is a fallacy that they will indeed experience – but will not understand regardless – when their incompetence will have cost many human lives; but due to their low intelligentum, precisely as a result of not being able to think, they will understand nothing and learn nothing, consequently in the coming months the death toll will run into many tens of thousands.

**Ptaah** This will be the case, because what you two have seen and observed together, and what my father taught you, as well as everything you have experienced together, that undeniably corresponds absolutely exactly to that which actually arises in the present time and will also come and be as you have observed and described it. And this will be the case, even if the terrestrial sciences do not yet know of these cognitions. However, they will find out, because everything will unchangeably come about just as you both have seen it. And that which Father's record concerns will come true, just as it will with the tests which will be negligently performed on the populations in the future. But what you have said, you should think about; and that all this will be as he wrote it, you have already known that since 1952, when you were with my father ...

**Billy** All right, I will think about it again. I am sorry if I am interrupting you again, but that is actually not what I want to hear, because I also know what else would happen, about which, however, I shall not say anything in detail, therefore there is also nothing to talk about regarding this, because all too quickly something would be said that no one must hear or know. Sfath said that I must maintain strict silence and only release information that does not reveal much more than that which the virologists and all other professionals, and so forth, could find out for themselves. If too much were said, so he explained, then therethrough very quickly research and from it results would emerge, from which a massive and insane production of weapons would result, after which certain unpopular human beings would be murdered with these weapons, as well as a worldwide planned murder of certain peoples would come about in order to exterminate them in a genocidal form, as happened with Hitler and his Nazi companions with Zyklon B in Auschwitz and so forth, in a felonious form that was contemptuous of humanity. Therefore, he said, the virologists, and so forth, must not receive any actual in-depth information about it, because this corona virus, which he simply called the rampantly spreading disease virus, effectively contained components that were very dangerous and could not be found by virologists without special clues and equipment, even with the greatest efforts. He said imploringly, and this was driven into me, that sleeping dogs would be awakened if virology science were to unravel the virus secret, therefore this was to be avoided, consequently no more is allowed to be explained for this science than that which the virologists are able to ascribe to their own cognitions. The human beings of this planet, he said, were such that even with the best of senses and goodwill they would, out of some – for them uncontrollable – impulsations (**Impulsation:** According to Billy a 'Regung' is an 'impulsation'. 'Impulsing' or 'impulsation' are new words with the meaning: something goes in; something develops. There are various forms of impulsations, for example, thought-impulsations, feeling-impulsations, etc. (<http://dict.figu.org/node/732>)), suddenly change in terms of their character and would become malicious, because this is ever-present deeply in their character due to religious belief and can surge up at any time through any arising thought-feelings-impulsation, can come to erupt and cause terribleness.

**Ptaah** All of us, who are making an effort here on Earth for the sake of your mission, know this, which is why our directives also do not allow direct contact with Earth's human beings, although certain exceptions were allowed, which both my father Sfath and we had observed, but which have since changed and have been forbidden to us due to the entire negative change in attitude and behaviour of the Earth's human beings which has gotten badly out of the control of the good human nature.

...

**Billy** ... However, it would be important, if you allow, that you explain something in relation to your cognitions and in relation to your own findings and opinion about that which I mentioned earlier, namely with regard to the transformation, that is to say, mutation of the corona virus. As I know from your father Sfath, a large part of all viruses mutate, but he also told me that the corona virus would be something special in its kind and would contain something that is unknown to terrestrial scientists and of which they would not even have a clue, let alone that they could even imagine anything in this form. However, I think that this is not surprising, if one considers the bigotry of the 'educated ones', for whom only that which they have learned is valid, or that which is based only on an ingrained hypothesis that does not allow for anything else that is unknown to them or that they cannot imagine. Even those virologists, epidemiologists and other specialists who make a genuine effort about everything, devote themselves to the matter in depth and do their best to clarify and correct everything and to explain the correct and necessary measures for prevention and avoidance, cannot do anything against this.

However, it is precisely these among all the experts who are simply disregarded, stomped on, put down and treated like unknowing children or like idiots, consequently their logical conclusions are not considered and are never carried out – or only when tremendous damage, immeasurable suffering, misery and countless deaths have come forth from it.

Since we are now talking about viruses, it would be interesting to find out what can be said about them in general, and that would probably also be quite important, but, as a rule, the populations do not really find out anything about it. This is because those in government and their lackey spokespersons and the like know nothing themselves; consequently they never fulfil their duty and obligation with regard to the 'information' and population-'enlightenment' they have to publish, rather only babble banal and pompous information-less nonsense and thereby try to make such a show of intelligent faces, which is not only ridiculous but roaringly laughable. And because all of this intelligentum-less fuss does not release any pertinent information whatsoever that would be necessary to clarify things for the human beings with regard to what they are actually dealing with and what they need to focus on in order to avoid problems, damage, terribleness and death, on the one hand, the populations are far too lax about everything related to the necessary safety measures, while, on the other hand, persons who are troublemakers, know-it-alls, contrarians or conspiracy theorists are, due to their inability to think, too low in intelligentum and simple-minded to understand the deadly seriousness of the matter, as is also the case with those know-it-alls and contrarians of virologists and so forth who are of bean-straw-like low intelligentum.

As for those misguided and unsuitable governors and experts, who only loud-mouthedly boast, they do this only because they themselves know nothing, which, on the contrary, would be their duty so that they could inform the populations. In truth, however, they do not think about the whole thing thoroughly, therefore they only talk with low intelligentum and irrelevantly and leave the informing to those experts who are also only loudmouthed and do not let those colleagues have their say who are effectively the ones who would know what would actually have to be done. Consequently, all those unsuitable rulers and experts then have two ways that they use in order to announce their unknowledge, their half-wisdom and low-intelligentum-nonsense on television, radio or in newspapers and so forth, namely firstly by talking shop and throwing around technical terms incomprehensible to lay persons in such a form that an ordinary citizen understands no more than "eh?" or "what?". Secondly, everything comes about to an extent that corresponds to nothing other than a completely senseless, empty, banal and extending to ridiculous, laughable, irrelevant and imbecilic gibberish, as is also done in this form by the majority of those governors and by those informing ones pushed in front by them. And this unfortunately also happens here in Switzerland, which has been reprimanded for some time by various neighbouring countries because of the irresponsible inactivity of the Swiss government with regard to the necessary safety precautions against the rampantly spreading corona disease. And when I thereby watch the women and men in our Federal Council on television, as well as various women and men in the Council of States and National Council, as well as scientific experts, and take a look at their physiognomy when they speak, as well as hear what they say with deadly serious expressions and with banal 'wisdom', then I feel concerned and I am ashamed that we in Switzerland have such people in the Federal Government, in the Council of States and National Council, as well as in the Cantonal Council, and so on. When I thereby observe and consider everyone in the highest government, then I see only one single person there who does his job with intellect and rationality, also for Switzerland, its people and its well-being, who really does that which is good and right and does not flirt with the EU dictatorship, as the primitive and dirty traitors to homeland, neutrality and peace do, who want to sell out Switzerland to the EU dictatorship through vile lies and electoral tricks. In all this, I only see the Federal Councillor who really undeterred and properly takes his duty consciously and seriously and works for it that the one who does everything right with regard to finances and so forth has a good flair for it and additionally no delusions of grandeur, as is inherent to the others.

**Ptaah** You sometimes say 'learned is learned', and this is exactly that which that part of the failing national leaders and scientists you mentioned has learned; namely inactivity, negligence, non-recognition of duty and dereliction of duty and

irresponsibility and so forth, because in their government offices and in scientific matters they do not think and work for the populations, rather only for their own false and selfish ambitions, wishes, desires and lusts. And that goes above everything, condemns everything in terms of honour and dignity and leads to the betrayal of the homeland, to indifference towards life and limb as well as to strife, hatred and ultimately to war and murder. Consequently, it follows that the persons in all the councils of governments do not have any thoughts or stabs of conscience about the fact that they – as a result of their inaction and inability, their deviant homeland-betraying attitude and their extremely inadequate understanding with regard to bearing and assuming responsibility, as is now also the case with the rampantly spreading corona disease – are all to blame for the fact that many human beings become infected by the rampantly spreading disease, fall ill through it and die as a result of it.

That which you have said regarding vaccinations against the rampantly spreading corona disease corresponds also to my opinion, because the fact that vaccinations of this kind can be carried out and even permitted at a completely wrong point in time is based on the anxiety and panic caused by the inadequate necessary education and information as well as orders, implementation and safety measures that should be taken against the rampantly spreading corona disease. In addition to these facts, it is unpleasant that also various scientific experts do not publicly bring up any effectively explanatory, relevant information, but only trivia or confused half-truths. And as often as I follow so-called descriptions, explanations, factual presentations and generally also allegedly significant conversations on television broadcasts by national leaders, politicians, scientists and experts, the whole thing always corresponds to nothing more than banal babble.

Throughout, I can always only note with disappointment that especially in information broadcasts, explanations, talks, clarifications and disclosures and so forth, as well as in special broadcasts and press conferences with regard to factual explanations and so on, as everything is always called, on the one hand, expertly insufficient knowledge corresponds to the facts discussed and explained, with clear explanations never being available. On the other hand, everything is presented in such an awkward, babbling and meaningless form, as if the speakers, who make banal and only halfway valuable explanations and conversations, were persons who correspond to nothing more than those who make tiresome attempts at explanation, as would be presented by inexperienced half-grown persons. Not infrequently I find the meaningless conversations and the gestures of speech and so forth, of the persons concerned, extremely ridiculous, as well as their efforts to present themselves as important, knowledgeable, wise and professionally educated, which, on the contrary, however, visibly reveals an adolescence, low intelligentum and a poorly developed intellectum. But enough of that for now, because what you have suggested urges me to continue with my enumeration, which we have interrupted.

- 5) Already in a few weeks, when the new virus will be discovered, the mentioned vaccination against the corona virus will lead to asserting claims that the corresponding vaccine will also be successful against the now newly mutating virus. However, this will not correspond to the effective fact, rather will be so only depending on the case and situation, because also in this regard basic tests would first have to be carried out, which, however, will be lacking and consequently no real guarantee for effectiveness can be given yet. This is not surprising, however, because immature things can never be furnished with a safety seal. On the one hand, the new virus will emerge independently in various countries, but, on the other hand, will also be spread and ...

**Billy** Please excuse me again, but now I am asking you whether our clever virologists have not yet discovered that also another mutation of the virus is already underway? I have not heard or read anything about it, indeed neither on the radio nor on television, nor has anything been written about this matter in any newspapers. At that time, together with your father Sfath, the two of us did not occupy ourselves with the media either, so my memory could not register anything about it.

**Ptaah** Also according to our observations no findings have yet been made in this regard by any virologists and so forth, rather that will only be the case in the middle of the following month. But now I really want to answer your questions and also come to your explanations. If ...

**Billy** I see, but it will certainly come about that information will emerge about it, because we saw that from the month of September, 2020, another new virus mutation would emerge, about which first much fuss will be made, but the whole thing will then, in the course of time, as usual, be neglected again and spread all over the world by tourists and business people. It will equally happen also with further new mutations that will quickly, within a short time, follow the first new known mutation in other countries far to the south and then in the east of the world. And nothing will change regarding the spread of the new virus mutations, because, as was the case already at the beginning of the rampantly spreading disease, also this time flying will not be banned either regardless of it all, as it should be. Consequently, the whole thing is not even restricted to such an extent that the passengers are necessarily subjected to such health checks and are examined carefully by means of quarantine before and after each flight to such an extent that any further spread becomes highly unlikely, that is to say, effectively impossible.

However, as far as the new mutation is concerned, which has already been advancing since September, which nobody knows yet because nothing has been detected yet, rather this is yet to come, this new mutation is in fact not only a single new one, but, as I said, there are other new mutations developing at the same time, which will break out next month and

also next year in January and afterwards. And this will happen far in southern and western countries, as well as far in the east of the Earth. I simply found this still important to say and therefore interrupted you. But if you could now also explain a few things, for example, how and what a virus is, then those people who read our contact reports could inform themselves somewhat about what these unpleasant structures really are. It would also be interesting to know how many of all the existing life forms on Earth can actually be attacked by viruses, if you know that? In this instance I think that you know much more about it than our experts, who, on one hand, anyhow always want to know everything better than the facts really are, while on the other hand, only about 1/10 to 1/12 of all the genera and species of life forms existing on Earth are known.

**Ptaah** That is so, yes. However, about that which you want to know, I have certain information that I can retrieve if you want?

**Billy** Of course.

**Ptaah** Well, it takes a little ... Here, ... this data shows what you want to know, namely, ..., yes, ... according to our research and cognitions which we have carried out and worked out so far in relation to the life forms on Earth, there are following results:

- 6) On the planet as a whole, there exist 4 million 101 thousand and 374 different recent (Used in biology, the Swiss German term 'rezent', which is usually translated as 'recent', means 'currently living' or 'recently extinct'.) species of life forms on Earth in all terrestrial areas, floodplains, mountains, forest, moorlands and swamp areas, as well as in all freshwaters and salty seas, whose cells or protective cover can be attacked by viruses, become diseased by them and die.

**Billy** Coming back to what you have said earlier: recent species – that sounds like Bohemian forests to the normal earthling citizens, because in pre-school, primary and secondary schools there are no actual biology lessons. Even when I was at school, biology was taught only very sparsely, whereby, however, I was very interested in this subject, which is why I knew more than my teachers. That was also the reason why I sometimes went out and about in nature with the class while the teacher corrected the dictation books of the class in the classroom. However, what you have said, I mean the term 'recent/presently living species', it should probably be said in this connection that this does not mean 'recent food', because 'recent' in this sense means culinary, for example, hearty, strong, piquant, spicy or hot and so forth. 'Recent', however, as you have used this term, which is correct, means in the aforementioned biological sense 'presently living' (or recently lived) and thus that the mentioned recent species live in the geological present.

**Ptaah** I should have actually explained this, but I neglected to do so because I wanted to point out that, with regard to your questions and explanations, I should explain some things in some detail and explain some of them for better understanding and as an aid to memory, and explain some of them in a repetitive, divergent, paraphrased and inconsequential form. This is exactly for the reason as you have just said and done it, so that it can also be understood by persons who, due to a lack of schooling, are not educated regarding certain areas of knowledge and are therefore also not familiar with certain terms. But now the following:

- 7) We have not yet researched what will happen in the long term as a result of the vaccines which are being negligently implemented and are untested as well as immature, therefore I cannot yet give any probable possibilities about it. What is certain for us, however, is that such vaccinations with untested substances are not only negligent but irresponsible, which can have serious consequences under some circumstances.
  - a) Fundamentally, vaccines and medicines should only be used after thorough long-term testing, namely also only if no side effects of any kind are revealed as immediate or delayed effects. To our knowledge, however, many of the more than 55,000 officially medically recognised medicines known to us are not fully developed, are not pure and are therefore dangerous to health, because many trigger side effects that can range from mild to severe or even fatal effects.
  - b) As we know, there exists another dangerous medical factor with regard to medicinal treatments in terrestrial medicine; namely that it is unknown in medical science that for human beings medicines are to be used specifically, namely depending on certain organic conditions and so forth, for example, the blood group as well as the tolerance of substances foreign to the organism and so forth.
  - c) Substances foreign to an organism correspond to toxins that attack the entire human organism, dock onto different receptors in it, therethrough attack the organs affected by it and acutely poison them, wherethrough mainly the liver is affected, whereby hepatotoxins, for example due to paracetamol, as nephrotoxins in the kidney, but also in the brain and nerves as nerve toxins such as botulinum toxin as well as warfare agents such

as VX, sarin or soman and so forth, are also known to be dangerous to health by earthly medicine and chemistry.

- d) Poisons correspond to substances which, taken as a whole, can interferingly impair all bodily functions, wherethrough signs of illness and suffering are called forth, which can have a short or long-lasting effect, result in late complications or lead to death. And such toxins are also inherent in the majority of all terrestrial medicines, but also in certain foods and stimulants, for example, alcohol, drugs, sweeteners, as well as various berries, spices and mushrooms, and fruits and vegetables, and so forth, which have anaesthetic, function-impairing and destructive effects on the central nervous system, indeed sometimes even in most minimal quantities. It is true that the human organism has certain defence mechanisms of its own, wherethrough unwanted foreign substances and toxins can be broken down to a certain degree by an enzyme produced naturally in the body, whereby especially the liver and the areas of the intestines have defence and neutralisation capabilities to a certain degree, among other things. However, there are limits to all this, because already a little can be too much and lead to serious health-damaging consequences, because if the capacity of the processing capability is exceeded, then the cells and the entire organism are poisoned, wherethrough suffering and diseases are unavoidable or lead to death.
- e) Most harmful foreign substances and effective toxins can deposit themselves and spread especially in fat deposits, which makes it especially easy for them to penetrate the cells of the organism, and this is especially the case in the intestinal areas, wherethrough then the danger exists that the toxins will pass through the intestinal wall and, as a result, enter the bloodstream.
- f) Toxins that enter the intestinal system as medicines or with food are blocked in the intestinal wall, which acts like an inner protective skin, whereby this process takes place by means of certain proteins that have an inhibitory effect as a protective mechanism. However, if the intestines are overloaded with invading toxins, then these foreign substances get into the blood; consequently, the organism or the body then begins to defend itself with another strategy, and in this process the liver is kept busy, in which the toxins contained in the blood are enriched in the liver and changed in such a form that they can no longer bind to the fat, rather they lose this ability and can also no longer penetrate the body cells and cause serious damage in them. During this process, degradation products are produced, which, however, are harmless and additionally lose some of their toxicity, whereby the liver enzymes also convert the fat-requiring molecules into water-soluble ones, which are then excreted with the urine, wherethrough the organism rids itself of the harmful substances in this form.
- g) Basically, a distinction must be made between corrosive, anaesthetic and irritant toxins, whereby such foreign substances often cause vomiting and severe pain.
  1. Narcotic toxins are, for example, the foreign substances on Earth which are very harmful to health and, moreover, are irresponsibly used in cosmetic surgery, which are misused for skin smoothing and skin padding and so forth, such as, in particular, the botulinus toxin produced by bacteria, which is called Botox and is produced by the bacterium *Clostridium botulinum*. It is one of the most powerful poisons of all that are misused for such purposes and can cause very serious poisoning.
  2. Corrosive toxins are, for example, ammonia, alkalis, phenol, hydrochloric acid and other acids, and these destroy the skin cells, as well as the mucous membrane of the mouth, throat and stomach if they get into the mouth.
  3. Irritating substances are, for example, iodine and mercury, which lead to inflammations of the mucous membranes.
  4. Narcotic toxins attack the central nervous system, however, they also affect the vital organs, namely especially the liver as well as the heart, the lungs and the kidneys.
  5. Toxins of all kinds generally have a detrimental effect also on the breathing and the entire circulation, in which case frequently a delirium or coma is associated with them, as well as, however, also very painful seizures.

**Billy** ...

**Ptaah** ... But now I should continue to answer your questions, therefore, the following:

- 8) Viruses are a type of small freeloaders that implant themselves in foreign host cells in an infecting form and spread rapidly. They are an organic structure consisting of one or more molecules which, depending on the species, contain a certain genetic material in the form of pathogens. And when viruses penetrate the human organism, that is to say, its cells, they bind to them and force them, so to speak, to produce new viruses due to the genetic material they brought along. This process is repeated very quickly and again and again until the entire organism is befallen by viruses. If the pathogens are noticed by the immune system, it activates itself, where through the body's own defence system begins to fight the virus. This can work very well with some virus infestations, that is to say, with certain diseases, whereas, however, against other viruses and diseases the immune system of the organism is completely helpless in the long run, consequently the virus and the disease can only be fought and put out of action by correspondingly effective natural or artificial-chemical substances or other methods.
- 9) Viruses as organic structures are very diverse, but also extremely changeable in their nature; consequently, they can change their nature by mutating and transform into new forms with completely new qualities and characteristics and weaken or strengthen themselves with regard to their power and aggressiveness.
- 10) About 2.5 million different types of viruses exist on Earth – just as everywhere on life-carrying planets in all universes there are several million different types of viruses. These also cause certain effects on all planets of all universes, ranging from harmless to annoying to deadly.
- 11) How dangerous these viruses are according to their kind is not only determined by the pathogens they contain, rather quite especially the state of the human being's immune system is also of particular importance with regard to their dangerousness. Connected with this and dependent on it is also the physical, that is to say, the overall organic and therewith the consciousness-based state of health and the psychical condition of the human being when he/she is attacked by a virus.

This means that young, elderly and old human beings who are fully healthy and provided with all the life-essential substances – such as vitamins and minerals as well as trace elements and so forth – and thus have an overall well-functioning immune system, are well armed against pathogens. This also applies, for example, to the corona virus or a flu virus and so forth, which do not represent a particularly critical danger if the immune system is of complete functional ability. This is the case because the body's own organ defence, that is to say, immune system, can ward off the pathogens and keep them under control. However, and this must be absolutely clear, this does not mean that all safety and precautionary measures against viruses, bacteria, micro-organisms, spores and other pathogens could be disregarded. This is because of the fact that absolute certainty can never be offered, because also the biological life rhythm of the human being is decisively involved in the immune system, because through its up and down fluctuating state of power this life-conditioned rhythm inevitably has an enormous influence on the immune system. The power rhythm, that is to say, bio-life rhythm of homo sapiens sapiens in all 7 universes and all their dimensions and space-time structures has a uniform period of 23 days, whereby 11½ days are exposed to a plus phase, that is to say, an energy peak phase, a higher organic resilience and thus a less harmful possibility of attack, consequently the organism can use more active and resilient powers.

During the other 11½ days, the bio-life rhythm has a minus phase, where through the organic stability is more labile and more unstable for pathogens and virus attacks and so forth. The whole organism also tires more quickly and becomes more susceptible to attacks that are harmful to health, consequently it also needs more time to recover. After 23 days, the rhythm starts again from the beginning, whereby also the thought-feeling-psyche state is included in it, the period of which, however, lasts not only 23, but 33 days.

What is further to be said to the explanation refers to the fact that this teaching of the bio-life rhythm does not lead back to a terrestrial assertion and also not to an esoteric assertion, rather is based on a Plejaren cognition which is millions of years old, which my father Sfath brought to Earth and passed on as a teaching to the psychoanalyst Sigmund Freud and a doctor, Wilhelm Fliess, in 1888, with whom he maintained lively contacts until 1921, as I have learned from his annals.

Since then this teaching has been preserved, although it has been questioned to this day by know-it-alls, negaters and doubters, as has been the custom of the human beings of Earth since time immemorial, as you know, because the 'experts' appearing in this regard have not been able to fathom or prove the correctness of the teaching to this day, which they will not be able to do even for a long time. It is ...

**Billy** Excuse me for interrupting you again, ...

**Ptaah** ...

**Billy** And? It is simply so. With everything you explain, it would probably also still be important to briefly say something about wearing protective masks and the distance from one person to the next.

**Ptaah** I will do that then. First, however, I would like to continue with my remarks on the rampantly spreading corona disease, in order to explain some of the things you asked about.

- 12) With regard to sickly or otherwise unhealthy children, but also with completely healthy ones, there can exist a susceptibility to the corona virus; this contrary to other claims of terrestrial physicians and so forth. With children an infection can also come about in the same form as with old human beings who are prone to illness or chronically ill, for whom an infection by the corona virus can not only be dangerous but end fatally. Even a flu should not be self-medicated for this group of persons, rather a doctor should be consulted. Although the fact is that influenza is not life-threatening for a larger part of the population, rather simply annoying and harmless, but with such illnesses their nature should be determined, because there are still other viral diseases apart from the rampantly spreading corona disease, for example, the HI-virus, which, if not treated by a specialist, means a death sentence.
- 13) In addition to the viruses, there still exist mainly bacteria as pathogens. However, depending on the species, bacteria are also necessary and important for all life, therefore there are differences between viruses and bacteria in this respect. Both bacteria and viruses can cause diseases, but they are fundamentally different from each other.
- 14) Bacteria are unicellular organisms and they have their own metabolism and thus a life dynamic, which means that, in contrast to viruses, they correspond to real life forms. In contrast to bacteria, viruses consist exclusively of a powdery protein shell in which genetic information is enclosed. However, since the prerequisites and abilities that bacteria have are not present in viruses, and they also do not have a metabolism, it is the basic fact for them not being able to reproduce themselves but that they require a host cell in an organism for it.
- 15) In contrast to viruses, bacteria reproduce independently through cell division, whereby many types of bacteria, in contrast to viruses, are very useful and vital for many life forms and do not cause harm, for example, intestinal bacteria which ensure health and life.
- 16) That which we already know with regard to the new virus versions emerging next month – indeed it will not remain with just one, because there will gradually be several – is that the virus which is currently still mutating will this time get out of control to a much more aggressive form than all the many mutations that have so far emerged from the basic strain, which, however, you have already known for more than 70 years. Our latest research now shows that the next – namely the newly emerging mutation variation – will be much more aggressive than the previous one. Also, this new virus does not only develop, that is to say, mutate in one place, as will be erroneously assumed, but everywhere in the world, but basically in different species, namely depending on the respective climatic conditions of the mutation sites. Therefore, the new emerging corona viruses will be recognisably different, for example, as the one emerging in the UK and another in the South African area. This, however, would actually also have to be known to terrestrial virologists. Therefore it will be incomprehensible that, as it will come about, a false assumption will arise that it must be carried from the place where it was first detected in order for it to spread. It is indeed true that this has, according to our findings, already occurred, but nevertheless the fact of worldwide mutation remains: that is and remains a fact, as it will generally always be sooner or later. This is because the most diverse circumstances in the various countries are significantly decisive.
- 17) Given that, as a rule, all types of viruses change by means of mutation, the corona virus changed from the ground up when it first escaped in the 1970s and snuck into influenza viruses and was able to maintain itself and evolve in them for over 20 years. This happened without the relevant terrestrial scientists who were concerning themselves with it becoming aware of it, rather only when the virus mutated into its own new species and set itself apart again and emerged as the rampantly spreading SARS disease. However, I can consider this understandable, because such a process, that a virus can integrate itself into a foreign virus and develop into a new structure in it over a long period of time, is completely unknown to the terrestrial experts of virology and so forth, and furthermore, such occurrences are so extremely rare that, according to our research cognitions, this occurrence has only happened twice during the last 12 million years on Earth, but together with the present event is now happening for the third time.
- 18) As a noun the virus is usually denominated as masculine, and it does not correspond to a life form but to a lifeless organic structure that cannot be killed but can only be destabilised, deactivated and destroyed by organic substances and so forth that are very harmful to it. And this – if the organism is infected by viruses – can only occur in connection with the activity of the cells which the virus penetrates, if defence reactions are activated and triggered by various substances that attack the virus. If this occurs, then the virus is put out of action by a deactivation in such a form that a disinfection, sterilisation, that is to say, deactivation, takes place. Therefore, from that it arises that the virus loses its infectivity and becomes absolutely inactive. Viruses, as already explained several times, are not life forms, not germs and not independent living organisms; consequently, they also cannot be killed.

There exist, however, various possibilities and methods for disabling viruses of all kinds, such as the use of:

1. various natural substances
2. chemically produced substances
3. heat application
4. radiation
5. Special, technical kinds of methods.

19) In terrestrial medicine the infectious ability of viruses, that is to say, their infectiousness, is described as the ability of a pathogen which as a term describes pathogens which as organisms in a foreign organism attack, infect and/or damage its cells, whereby in this regard, along with bacteria, fungi, protozoa or parasites, also poisons, microorganisms and ionising radiation, but also parasitic molecules such as viruses, viroids, transposons and prions are to be mentioned, which, as a result of their parasitic organism and their pathogenicity, that is to say, their ability, are able to cause pathological changes and diseases in parts or all of the organism via the infected host cells.

The whole of all processes with regard to infectivity is based on the dependence on pathogenicity factors and therewith on the ability of the corresponding pathogen, which infects a cell and causes a very rapid and mass reproduction of its kind in it, which spreads very quickly and invadingly across the cell system.

The infectivity of the virus depends on the pathogenicity factors, whereby the number of newly formed pathogens per cell determines the contagiousness, that is to say, the strength of the actual infectious state and therewith also the effective epidemiological  $R_0$  value of the pathogen.

20) The ability of viruses to infect can only be counteracted in such a useful form if correspondingly appropriate protective measures are observed, taken, handled correctly and carried out in full measure. And in this respect, the wearing of suitable respiratory masks of a high-quality class is to be observed as the very first measure and importance. As far as terrestrial classes of respiratory protective masks are concerned in this regard, which also serve as protective masks against saliva droplets and respiratory aerosols, these generally function simply as protective masks in 3 different classes, namely under the designations FFP1, FFP2 and FFP3 with additional quality and test designations as well as information regarding the usability and for what purpose they can be used. The quality and service life of the protective masks are also shown, as well as the procedures for responsible disposal after use and so forth.

21) With regard to the infectivity of viruses, it is very imperative to pay attention to keeping a distance from human being to human being, which must be assessed and maintained depending on the type of air movement.

- a) Wearing a purposive quality respiratory protection mask is necessary in all places when dealing with strangers, whereby also the necessary distance from person to person must be maintained.
- b) Known persons or strangers who enter the personal living quarters of other persons or an apartment-house community are obliged to wear a high-quality respiratory protection mask, which also has to apply to relatives, acquaintances, friends or members of a group living externally. The behaviour in this regard is each person's own decision and responsibility, which must naturally be taken care of by them. The decision regarding to what extent the residents themselves should wear a quality mask, whether this is necessary or not, is their personal responsibility.
- c) At workplaces, the necessary obligation to keep a distance from person to person must be observed under all circumstances, whereby the distance without wearing a respiratory protection mask is to be 2 metres in calm ambient air. If, during work activities, the distance from person to person is less than the necessary distance due to a lack of space or due to working conditions, then the wearing of a high-quality respiratory protective mask is an absolutely essential and responsible duty.
- d) Respiratory protection masks are not to be worn in one's own household or in personal living quarters and so forth, which however, under some circumstances may nevertheless be necessary immediately if strangers entering the home make it necessary. This may be particularly necessary and an absolute requirement when dealing with strangers whose movements are unknown and also cannot be assessed.
- e) In closed rooms with still, ambient air, a distance of approx. 1 to 1.5 metres between persons is already sufficient if there is a certain degree of certainty that none are infected. Thus the behaviour required in this situation and the knowledge of the personal circumstances with regard to other contact with strangers, as well as with regard to their personal state of health, correspond to the direct exercising of responsibility of each individual person.

- f) Closed rooms in which several persons stay for a longer period of time should be well ventilated from time to time and also lightly dusted with a disinfecting room spray, but outside the time when persons are in the room or enter it again immediately.  
 Contrary to erroneous assumptions and wrong advice from 'professionals' that windows and doors should be opened all around rooms occupied by persons in the event of a rampantly spreading disease, this is fundamentally wrong, because, as a rule, therethrough a draught of air occurs, wherethrough, if a person is infected by pathogens, they exhale infecting aerosols and under some circumstances also distribute saliva droplets in the room, which are then inhaled by other persons present and they become infected.  
 In rooms where persons are present, fresh air should certainly be let in, whereby, however, a window or door must only be opened such that there is no draught.
- g) Depending on the situation, a distance of 1.5 metres should, as a rule, be considered appropriate outdoors in still air. In the case of slight air movement, a distance of 2 metres or more from one human being to another is absolutely essential, and it should also be considered that the distance should be increased depending on the stronger air movement due to wind or draught.

**Billy** Once again – excuse me for interrupting you again. I understood everything up to the  $R_0$  value, but this  $R_0$  value, I do not know what it means. And therefore, I also want to ask about the term that results in this  $R_0$  value that is ominous to me. If I try to formulate and interpret the whole thing correctly, the contagiousness indicates that it determines the strength of the pathogen, that is to say, its mildness or severity, but with that also how easily or with how much difficulty a pathogen can be transmitted to cells or host cells via the various infection possibilities, that is to say, via pathogen-typical routes.

In my opinion, I think that it would also be important for us medical lay persons to know something about this, because a certain knowledge regarding the infectivity and contagiousness would allow us to assess/gauge what should be done medically with regard to whether or not a doctor should or must be consulted in the case of health complaints or an effective illness. It is important for human beings to understand and be able to assess what kind of pathogen could be responsible for their health problems, in order to be able to assess/gauge how they should behave in the event of an illness, that is to say, during the outbreak of such an illness. In particular, it would be especially important for every human being to know, as is the case now with the rampantly spreading corona disease, how, what and whether they can do anything helpful with regard to protection and maintenance in terms of health for themselves as well as for their fellow human beings. In particular, as is the case now with the rampantly spreading corona disease, hygienic measures, that is to say, infection control measures for a rampantly spreading disease are required, for example, a total isolation or a temporary quarantine. All this would be important for every human being to know in order to behave correctly and thus to be able to consciously take ample responsibility for oneself and for one's fellow human beings and the entire environment.

Well, the thoughts that I have about the whole of the rampantly spreading corona disease and many other things – which I have been writing down and disseminating to the world again and again since my youth and for more than 75 years now, with the help of well-meaning, like-minded, responsible human beings who care about the well-being and continued existence of the Earth's humanity, the planet, all ecosystems, nature and its fauna and flora, as well as the atmosphere and the climate – unfortunately only fall on small fertile soils. Unfortunately, as a result, only a few human beings can be reached who will take my words on board and take them seriously and who will then think about them and about following them, and who will actually do so.

**Ptaah** Everything you have said is right, unfortunately also that which you mentioned with your last explanation. But since I think you have understood everything I explained correctly, I no longer have to answer your question about having to understand, but only have to describe the  $R_0$  value. This is a basic reproduction number to be calculated, by which it is indicated how many human beings on average are afflicted by a thing or are interested in a thing and so forth. This is as it relates to our conversation, that is to say, the whole thing that relates to the rampantly spreading corona disease, that is to say, the result yielded by the  $R_0$ -value in relation to the numbers of infected persons.

As a rule, these values are estimated with the help of mathematical models, whereby the estimated values depend on the model used and the values of other parameters. Thereby it is necessary to know that a difference exists with regard to whether the values are calculated for a whole population of a place or country, because as the case may be, sometimes very rough average figures or only smaller numbers can be taken into account. Thereby attention is paid to whether warnings have been issued and whether these are followed by the population or not, as well as whether distance rules or quarantine rules have been implemented. A basic reproduction number allows conclusions to be drawn with regard to the dynamics of a disease outbreak, whereby the whole thing, however, must be viewed and considered and evaluated with distance, because in principle such calculations and data are not very informative. Therefore, for such calculations, additional parameters have to be added if a reasonably correct result for the effects of a matter is to be interpreted and a reasonably correct degree of evaluation is to be determined. In any case, however, the whole thing always remains a hypothesis and thus an estimate.

**Billy** Understood. – Thus in short: if I now summarise all of your explanations then I can say that the whole thing is indeed explained sufficiently enough, however, it is only useful for human beings if they learn a lesson from it, memorise the information and observe and follow the correspondingly necessary as well as life-saving protective measures.

**Ptaah** Yes. However, that which I want to mention in advance concerns that which you mentioned; namely that by the end of November there will soon officially be 'about 80' million human beings infected with the corona virus, which will not be in doubt. Therefore, we too have done our own further preview and realised that this figure will be far exceeded by the end of the year, while the figure of over 2 million deaths will remain as you have stated.

**Billy** Well, thank you. But then there is still something else; namely a short description of the viruses, their structure and their reactions and so forth, if you still want to elaborate on that, please.

**Ptaah** Of course, I can do that. Then the following about that:

22) When a virus is combated by any substances, by the immune system, organic reactions take place in it which have a damaging effect on it, soften the virus shell, break it open and destroy the powdery contents.

- a) Every virus of any kind is directed at finding a suitable host from the very beginning, befalling it, implanting itself in it, bonding with it, adapting to it and therewith infecting it with its own inherent pathogen.
- b) As far as a description with regard to the corona virus facts is concerned, which is that which you probably addressed with your question, I do not want to go too far in this respect and only mention the most important things, because detailed explanations would lead too far. I want to present the explanations regarding the structure and the classification of the details of viruses as follows:
- c) A virus – as I have often explained in conversations – does not correspond to any life form, but to a tiny, infectious organic structure that consists of neither one nor several cells and cannot be killed, rather can only be destroyed and dissolved.
- d) Viruses are extracellular structures that spread outside of cells by entering a body and its organism, that is to say, the cells, through a transmission, that is to say, an infection or an infection process.
- e) A single virus particle is called a virion, viria, virions or viron when it is outside of a cell. Viruses befall/infect cells of life forms that are called eukaryotes or eukaryotes, thus human beings, animals, other creatures as well as plants and fungi, in which case, however, it is a special area of these life forms, namely their cells, which have a true cell nucleus and a diverse compartmentalisation, that is to say, internal structure or subdivision. This distinguishes them in a special way from the two other system areas of life forms, because these have prokaryotes, that is to say, prokaryotic or cellular bacteria and archaea, which each form their own areas and are classified in all life forms as cellular forms.
- f) A virus has a filled, powder-like nucleic acid core, is shaped like a spherical polyhedron and has several levels, faces and polygons, whereby the core is the actual carrier of the virus' own genetic information. The virus as such is surrounded by a protein shell, which consists of an arrangement of contiguous units of protein molecules.
- g) According to our knowledge, viruses comprise a number of more than 2.5 million virus genera and virus species on Earth, whereby these usually correspond to pathogens, which, however, is not so in every case. Certain virus genera and their species are by all means also useful, but according to my knowledge this is still little or completely unknown to terrestrial virology science. The fact is, however, that this is just as much the case with viruses as it is with bacteria.

With regard to the unknowledge of the terrestrial scientific researches, the scientists certainly make an effort about many things, but not infrequently they fall into a certain narrow-mindedness and are then of the opinion that they would now be knowing ones of all wisdom and would have complete control over all things, which then leads to following.

- h) With regard to combating viruses, special defence substances, that is to say, antidotes are necessary for it, because viruses are completely insensitive to antibiotics, which are otherwise very effective as a pharmaceutical product against bacterial pathogens. Protective vaccinations against a few viruses known to terrestrial medicine and virology can be useful as a preventive measure depending on the case. However, if a person is attacked by a virus and survives the viral disease, then antibodies are formed, wherethrough, as a rule, lifelong specific immunity against

the corresponding pathogen occurs, but effectively only as a rule, because this immunity does not correspond to a guarantee in every case.

- i) Many viral infections which occur only in a contained form, that is to say, in one or a few human beings, can indeed be cited as harmless; however, in contrast to this, others are life-threatening, in which case their course often leads to the death of the virus-afflicted one, while, on the other hand, others lead to epidemics and pandemics, spread worldwide and cause small or large masses of fatalities.

**Billy** Viruses can be both negative as well as positive, like bacteria as well as life forms of all genera and species, and depending on the type, these can infect not only human beings, but also plants and animals, creatures and other life forms. In that case they can be useless, disease causing and deadly for them, but also positive, good, vital and therefore valuable. While with the life forms, as a rule, the negative and positive appears in a separate and thus each in their own female and male genus, it is a different case with viruses, which however, according to the explanations of Sfath and also you, is unknown to terrestrial scientists, whereby they have no possibility of researching and recognising this up until now. By this I mean that viruses are not only unipolar in themselves, but bipolar, that is to say, negative and positive, only through which do they have the ability to multiply.

Already back in the 1940s, your father Sfath explained many things to me regarding viruses and also said that in the second half of the 20th century viruses would also be used in terrestrial genetic engineering to enable the targeted transfer of hereditary substances between different cells. In this form, so he explained, life forms would ultimately be changed in their habitus, that is to say, in their appearance, in their gestures and in the totality of their preferences and habits, in their characteristics and proportions, as well as in their modes of behaviour and so forth. Furthermore, genetically determined defence germs against ailments, diseases and rampantly spreading diseases would also be produced, whereby determined, that is to say, fixed viruses, would be 'vaccinated' with certain genetic information and so forth, wherethrough new medicines would be created, for example, active substances against allergies of all kinds, for example, against the widely known nut allergies, whereas pine nuts, sunflower seeds, linseeds, poppy seeds and pumpkin seeds, as a rule, do not contain any dangerous allergens. On the contrary, this is the case with actual nuts which contain strong allergens and their own special albumens, that is to say, proteins that can trigger allergies. This is especially the case with peanuts, hazelnuts, cashew nuts, Brazil nuts, walnuts, almonds, pecans, Queensland nuts, pistachios and macadamia nuts, as I have learned since the time of your father's teaching. Furthermore, however, there are also intolerances with regard to other foods, for which viruses and so forth are to be experimented with in the form mentioned, such as with regard to allergies to milk, that is to say, milk protein, lactose, that is to say, milk sugar, wheat, soya, fruit such as apples and strawberries and chicken eggs and so forth. As Sfath explained, viruses would already be used in the last decades of the 20th century and also in the new millennium to cause all kinds of terribleness and bring about changes on Earth. He let me see much of this while we were travelling together. In this way we have seen how tremendous misery, afflictions by means of doom, wars, felonies, terrorism, dangers, horrors and suffering, rampantly spreading diseases and mass deaths, tremendous natural disasters, misfortunes, horrors, fatalities, maledictions and apocalyptic trials will be rampant far into the future of the 3<sup>rd</sup> millennium.

With viruses, Sfath explained, great terribleness will be produced; malicious and deadly warfare agents will be developed, artificial rampantly spreading diseases will be called forth, as also genetic manipulations will be carried out and new life, but at the same time, also death and ruin will be created, but also good and valuable things for the benefit of the human beings. All this would also occur in the discipline of botany and the study of life, that is to say, biology and therewith in the science of life forms. Therewith the whole actually refers to all groups of all life forms, as well as to botany, that is to say, the entire plant world, and also to zoology, that is to say, the animals, the creatures, the birds, fish and other life forms, lizards, snakes, blindworms, beetles, butterflies and bees and so on and so forth, but also to microbiology, that is to say, the discipline of the smallest life forms down to the tiny bacteria and lifeless organic structures of the viruses.

The fact is that viruses – which also appear as genera and species, as I learned from Sfath – have, in the present time and for the future, become indispensable tools for the corresponding terrestrial sciences in an important form in the relationships mentioned. The only regrettable thing is that the sciences will then play fast and loose with them to the detriment of the human beings, the nature, its fauna and flora as well as the ecosystems. This is because everything good that is invented and made will be negatively and maliciously misused due to the irresponsibility of the human beings and thus the sword of Damocles will continue to hang threateningly over humanity. I have known this all my life, that is to say, since Sfath and I ... well, you know what I mean.

**Ptaah** I know that, yes, and what you said is right. Viruses are extremely miniscule-tiny organic structures that, on one hand, can actually be defined as genera and species, which, like many other things, is unknown to the terrestrial sciences because they only effectively define life forms as genera and species and do not know that non-living things also have to be explicated according to genus and species.

If viruses are examined more closely, which is largely possible with terrestrial high-precision instruments such as electron microscopes, then it becomes apparent that these organic structures are between 8 and 300 nanometres in size (note Billy: 1 nanometre = 1 nm, which corresponds to one thousand-millionth (On the 22.08.2011 it was decided with Billy, not to use 'trillion' for the German term 'Billion' and not to use 'billion' for the German term 'Milliarde' as it can lead to confusion.

Therefore the German term 'Milliarde' (1000 million) should be translated as 'thousand-million' (<http://dict.figu.org/node/9250>) and the German term 'Billion' should be translated as 'million-million' (<http://dict.figu.org/node/9248>). of a metre.) Viruses can therefore only be recognised and made visible in their tininess with the help of an electron microscope. Viruses are made up of structural-organic substances that are typical for them, but are fundamentally different in nature from cells of any life forms. Viruses are not life forms, but lifeless organic structures that exist alongside all the millions of diverse life forms in nature.

**Billy** Yes, nature is immense and contains million-fold life, but it has one decisive criterion; namely the ability of all life forms to procreate, that is to say, reproduce independently and without outside help through an act of copulation among themselves as the same genus or species. This applies to all life forms that can move by themselves, which cohabit by mating, that is to say, physical union or by sexual intercourse, coitus, by means of mating insemination, egg fertilisation, courtship, oestrus, that is to say, rutting mating or in any other way. ...

Well, as usual, I have once again digressed from the actual topic, namely viruses. I always have so many thoughts racing through my consciousness when I talk about something, because constantly cross-connections emerge that also still have to be considered and explained. Therefore we should come back again to the viruses, which need host cells for their reproduction, which are then programmed by them in such a form that the metabolism of the host cell runs almost exclusively in the service of virus reproduction. It has been explained – if I repeat – that viruses are tiny little: between 8 and 300 nanometres in size, depending on the species, and they can therefore only be made visible with the help of an electron microscope. Although viruses are built up of organic substances that are fundamentally typical for the cells of life forms, they do not belong to the animate nature because they lack the decisive criterion 'life' and therewith also the ability to reproduce themselves without outside help. Therefore, to do this – just to repeat it again – viruses need host cells, which are reprogrammed by the genetic material of the viruses in such a form that the metabolism of the host cell practically runs exclusively in the service of virus reproduction. Now, however, it would actually be good if you could still say something with regard to the mutation of the viruses.

**Ptaah** I will do that.

23) A virus mutates continuously, which also applies to the coronavirus.

- a) Mutations of viruses have the characteristic of influencing the effectiveness of vaccines, which were previously effective, to the point of complete ineffectiveness and rendering them ineffective; consequently, under some circumstances, initial vaccines have to be researched further and prepared anew.
- b) Most of the first vaccines' active ingredients remain without any beneficial effects and therefore no longer have any functional positive effects on a further mutated virus. On the other hand, it is possible that, if a mutation affects regions of the genome, therethrough, for example, the blueprint for the viral spike protein is released which makes it possible for the virus to enter the human cell system, wherethrough the ability of the virus is changed and it can infect.
- c) Contrary to false claims by terrestrial virologists and other experts that untested first vaccines are also equally useful and effective for subsequent mutations of a virus, this corresponds to recklessness, because already a first and only mutation can, under some circumstances, lead to an initially effective vaccine only being partially effective or completely ineffective when a first mutation occurs. In any case, claims to the contrary testify to scientific incompetence and irresponsible recklessness.
- d) The coronavirus cannot only affect human beings, but also mammals, namely especially ferrets, hamsters, dogs, domestic cats and wild cats, small and large predators and minks, along with all kinds of other creatures and very rarely other life forms. Unfortunately, in terrestrial zoology all living creatures are wrongly called 'animal', because only mammalian creatures are effectively to be classified under this designation, while all other forms of life are to be designated according to their genus and anatomy, such as monkeys, fish, birds, poultry, penguins, rays, moray eels, whales, manta rays, toads, turtles, frogs, lizards, snakes, blindworms, beetles, butterflies, spiders, scorpions, crickets, mole crickets, bees, hornets, wasps and insects, such as mosquitoes and so on and so forth. The reason for this kind of designation is that each of these life forms belongs specifically to a certain genus or to a species that has emerged from it. Collectively, all these genera and species do not correspond to 'animals', but to the domain 'living creatures' and 'life forms', which are to be labelled specifically according to their genus or species and therefore not collectively as 'animals'. However, not to do this shows the underdevelopment of the consciousness and the non-understanding of the real reality and its truth as well as the incapacity of the precise linguistic ability, which, unfortunately, is expressed particularly negatively in the terrestrial scientific designations with regard to the aspects mentioned.

**Billy** But then I still have one more question or two: How can one explain the infection of the living creatures you mentioned, namely that they are infected by the coronavirus, as has been proven to happen with a polar bear and lions in zoos, as well as with dogs? That is one question, the other is whether it is possible for coronaviruses to settle on food, for example, especially if it is cut open while handled or prepared. Then there is still the question of whether there is still a risk of infection after a recovery from corona disease, and apparently, as you once said, the corona disease can also be transmitted from other living creatures to human beings, right?

**Ptaah** That which I can explain about it is the following:

- 24) Living creatures, especially mammals, such as polar bears and lions, and so forth, kept in zoological areas and so forth – as well as other living creatures that can fall ill with the corona virus – were only infected through meat food or through direct contact with infected human beings. The meat for the creatures must be – was – previously contaminated by saliva droplets from persons infected with the virus shortly before or directly during feeding, where through then a virus infection is likely.
- a) With various domestic animals that fall ill due to the coronavirus, the causes of infection are also human beings infected with the coronavirus.
  - b) Food items, according to our cognitions in this regard, as a rule, cannot pick up coronaviruses and cannot transmit them to human beings, namely neither during trade nor during their preparation and so forth, because the virus cannot normally deposit itself on food items. However, a short-term settling on food can occur if a person acutely ill with the coronavirus coughs up or sneezes out saliva droplets or nasal droplets over the food. However, the condition in that case is that it happens through a person who is acutely ill with the coronavirus.
  - c) An infection of a human being can also occur from a living creature infected with the coronavirus, which is irrefutable according to our research results.

**Billy** Then that is also clear; then the following question: If a person has overcome an acute corona illness, to what extent can there actually still be a risk of infection? And what about the discharge of disease impulses after a viral illness? Our earthlings in the domains of virology, epidemiology and so forth, as well as experts in pandemics and general and special medicine and so forth, are still very far removed from all your knowledge, attainments and cognitions and so forth. This leads to the fact that they cannot follow what you are explaining, so that it can neither be understood nor accepted that there is much more and much different than these science-biased ones can reconcile with their belief in science and religion. Often, in all areas of science of all kinds, it takes them centuries after a painstakingly achieved realisation and knowledge before a further realisation and a further development of knowledge takes place. And the reason for this is that in all scientific, technical and who knows what domains and fields, on the one hand, only hypotheses are practised, on the other hand, everyone believes that their knowledge, understanding and ability is the ultimate and absolute and nothing more is beyond that, and that their little bit of knowledge is the final conclusion of all wisdom. And this remains the case for 100, 200 or 300 years, until someone cleverer comes along, studies a little further and makes progress again, but firstly, for a long time – 10, 20, 50 or 100 years – is shouted down by the ‘geniuses’ who know better and hail their genius and do not accept anything new.

**Ptaah** About that our research cognitions yielded the following:

- 25) If a real recovery from a corona illness has occurred then, under normal circumstances, there is also no longer any danger of infection regarding other persons at all. However, this cannot be guaranteed in every case of recovery from the coronavirus, because it is insidious and is able to call forth a completely different reaction in one human being than in the next.
- a) After a recovery from a coronavirus illness, as is also the case with other virus diseases, virus impulses can settle in the organism, for which no terrestrial instruments exist for their detection, and which also cannot be medically traced, as this fact of impulse deposit is unknown to all virological and medical experts. These impulse deposits, however, are not capable of infecting other persons, but remain in the organism for life and can be stimulus and cause for the emergence and breakthrough of the most diverse complaints, ailments as well as mild, severe or chronic diseases.

**Billy** And how is it with other living creatures, if I may ask about that once again? In the Netherlands, cases of corona disease have been reported in mink herds; consequently, the animals were then culled.

**Ptaah** We have already talked about this once, in which case I explained that the rampantly spreading disease was transmitted from human beings to the animals. I also explained the following:

- 26) The fact is that the coronavirus can infect different species – this is absolutely certain because we have thoroughly researched this experimentally under laboratory conditions. Mainly it is domestic animals such as dogs, cats, ferrets, hamsters, rabbits, but also primates, bats, bears and predators and so forth, which can be infected.
- a) Not only the possibility exists, rather it is certain that a transmission from animals to human beings is a fact, however, just as also a reciprocal transmission in relation to the coronavirus is not a special case, rather also actually happens, whereby, however, persons who keep animals and fall ill from them do not know that their pet is a corona carrier, because with them the signs of the rampantly spreading disease are different from those in the human being.

**Billy** From Sfath I know that viruses are extremely productive, are incredibly fast with regard to their reproduction and mutation and are able to produce large masses of copies of their genetic material.

**Ptaah** That is right and there is also something to be explained about that:

- 27) The coronavirus corresponds to a very primitive virus produced in the mid-1970s by means of various mutations and manipulations in three different laboratories, and is more uncontrolled and imprecise in its function and species than other more highly evolved structural organisms, in which case the coronavirus mutates particularly frequently and rapidly.
- a) The mutation of this virus changes its genetic material, as a result of which a certain new phenotype is mutatingly formed, which is adopted as genetic information by the copies that arise, however, overall in a completely different form than happens with other types of viruses, whereby the virus also changes itself structurally and functionally. Therefore, due to the mutation, a new virus emerges in such a form that it can always survive better and become more aggressive, where through, in the course of time, it can also select itself over all other virus variants that have preceded it and thus prevail. There through ever-changing conditions arise through which a selection pressure on the virus arises and therewith a high mutation rate, which further enables the virus to quickly adapt to the new forms that offer the best opportunities for survival.

With this I have explained the most important things that you have addressed with your questions.

**Billy** Yes, I think so too. Thank you very much, my friend. And with all that which has now been said and explained with regard to the rampantly spreading corona disease, this topic should by now actually be discussed and clarified for us to the extent that we no longer need to talk about it much in further discussions. Somewhere it has to come to an endpoint.

**Ptaah** There would still be much to explain, but what you say is also right.

**Billy** But then I still have another question, which relates to cardiovascular diseases, which, as I know, result from a lack of vitamins, minerals and trace elements, but how there through also cancer as well as diabetes and so forth can arise. This is the case, however, while circulatory disorders, cancer and diabetes also occur due to toxins that are ingested by the body with food, which is actually the case all the time nowadays, because in the entire agricultural economy completely the entire vegetable cultivation, all fruit trees, nut trees, fruit bushes as well as all berry, tea and herb cultures and so forth, are sprayed with dangerous toxins and partly also nourished with chemical agents that are harmful to health, namely also the so-called organic products, which are sold at outrageously higher prices than the non-organic normal products.

**Ptaah** Our investigations and research with and on all terrestrial organic products showed that although they contain fewer disease-causing pollutants than non-organic products, they are still harmful to health and can cause circulatory diseases, cancer and diabetes, and so forth, just as much as the normal products which are treated with more toxins. All the organic products we tested contained indeed fewer dangerous pollutants than conventionally grown products, however, regardless of that they cannot be called 'healthier' in this respect, because toxins are and remain toxins, and these are harmful to the human organism even in the smallest quantities. In our numerous and diverse comparisons with regard to the influences and effects on the human organism, it was ascertained that in this respect there were no relevant differences whatsoever between plant-based organic products and conventional products.

Lengthy research and studies on and with meat products revealed that meat indeed contains slightly fewer antibiotic-resistant germs, pesticides, herbicides and other traces of toxins than vegetables, berries, fruits, herbs and shrub leaves such as tea products and so forth, with some having only minimal toxic contaminants depending on the type of meat. However, organic products and conventional products as a whole are clearly contaminated by health-damaging toxins, namely in such

a form that they effectively cause disease, because even the smallest amounts of toxins, namely depending on their type, have a harmful influence on certain organs and also produce certain effects that create suffering and diseases, for example, the circulatory diseases, cancer and diabetes and so forth, that you mentioned.

**Billy** In recent years, organic farms were built up overnight by the score, as has been the case with companies and corporations that produce products under organic labels and sell them to organic believers, wherethrough they rake in thousand-millions. All of the organic lines have sprung up from the ground like weeds and become top money spinners and find more and more human beings who believe that organic food is not only better for the environment, but also healthier for the human beings and their pets, to which they also feed organic pet food.

**Ptaah** I am familiar with that, but according to the manifold clarifications, results, realisations and cognitions due to our many years of research, the result is that organic products, as they are produced on Earth, are neither significantly healthier nor less pathogenic. Fresh vegetables, fruit as well as fresh nuts, berries and herbs and so forth are indeed healthy – and this without distinction, whether it is organic or conventional, consequently one does the whole organism good either way by regularly consuming fresh vegetables and fruit and so forth. However, it must be clear that both organic and conventional products contain toxins, and even though these are fewer in organic products than in conventional products, they are still dangerous for the human organism and cause illness and suffering.

**Billy** In which case the producing of suffering and diseases, which are caused by the toxins in the food, is more expensive for the organic believers than for those who can only afford conventional food.

**Ptaah** That is indeed the case. About that it should still be mentioned that our researchers, in one of their very extensive meta-analyses and most varied studies, found ingredients and pollutants in the organic products that are still unknown to the entire terrestrial chemistry. Something was also ascertained that is contrary to terrestrial-scientific claims which do not correspond to effectiveness, being that copper, which is used as a 'plant protection', would not penetrate into the food plants. The results of our research in this regard namely showed that, although in extremely small quantities, minimal traces of copper particles are nevertheless stored in copper-treated natural foodstuffs such as vegetables and so forth.

At the centre of the investigations and research, comparisons were also made between organic and conventional products, whereby according to the analyses, it was proven that organic products showed no differences compared to conventional products with regard to the loads of purely natural contents, pesticide loads and the risk of toxins. This means therefore that organic products also do not have more vitamins than conventionally produced products, as was demonstrably ascertained in the comparison of conventional and organic foods.

Effectively, there was no significant difference, apart from the fact that only the phosphorus value in organic products is slightly higher than in conventional products. However, according to our cognitions, organic phosphorus deficiency is generally not widespread among Earth's human beings and therewith is also not a problem. Further analyses showed that there were also no relevant differences in the content of vitamins, proteins and fat, whereby, however, a slightly higher content of omega-3 fatty acids was found in organic milk.

Basically, our research results and analyses cannot confirm, as is claimed to the contrary by misrepresentations and lies of terrestrial profiteering, that organic food is healthier than conventional products, although organic products nevertheless have advantages, but are nevertheless not healthier than conventional products. Organic products bring advantages for the environment, the animals, creatures, birds, blindworms, aquatic life, lizards and so forth, as well as for the important pollinating honeybees and just as many other vital insects. All in all, these have the greatest benefit from organic products because in their production, as a rule, most synthetic fertilisers, pesticides and possibly herbicides are dispensed with. These alone are the advantages that organic products show.

**Billy** In short, it is therefore the case that organic products once again have no health benefits for the human beings and therefore correspond to nothing more than a delusion, as well as a horrendous money-making scheme, except for the good thing that the reduced use of synthetic fertilisers and pesticides and possibly herbicides means that they are largely dispensed with in favour of nature and its flora and fauna. This is the case, while it does next to nothing for the human being's health – except that they blow their money on a delusion.

**Ptaah** You can say it like that, yes. If the Earth's human beings are concerned about their health, they should rethink their dietary habits and instead of eating large quantities of convenience products, eat more nuts, grains and grain products, pome fruits and stone fruits, fruits, berries, herbs, mushrooms and vegetables with moderation and purpose. It is true that these products are no longer wholesome due to the use of chemicals and toxins in their production, which is why it may be appropriate to supplement the diet with additional vitamins, minerals and trace elements. Although these provide no or very little nutritional energy, they still correspond to vital inorganic compounds that are important for building body tissues and are also responsible for the bones, cells, teeth and for the undisturbed process within the body balance.

**Billy** Aha, tell that to those airheads who constantly rail against it and with know-it-all-ism condemn precisely these food supplements and therethrough want to denigrate something for the human beings that guarantees them well-being and health.

**Ptaah** From a biochemical point of view, Earth's human beings accumulate vast quantities of toxins in their bodies every day, because practically no food whatsoever is any longer free of toxins. All the natural food items are already contaminated with poisonous products for various purposes when they are planted, whereby these toxins enter all kinds of plants and can never again be removed from them. And this fact does not only concern the general vegetable plants of all kinds, all fruits and all berries, herbs and mushrooms that are planted, harvested and used for food in the conventional form, but also the so-called organic products, which, although somewhat less, are nevertheless contaminated with toxins that are harmful to the human organism. Even the smallest amount of a toxin stresses the nervous system and the genes as well as the entire organism and thus impairs and damages the health of the human being.

**Billy** But what about toxins that are found in natural products, because these contain small amounts of toxins, just like organic plants, which are also sprayed with pesticides and copper, as I know!

**Ptaah** We should actually still talk about this briefly and mention a few important things, because even natural plants that have not been sprayed with pesticides often also contain their own toxins, which basically correspond to undesirable components of natural food. However, many of these natural plant toxins can be destroyed by simply boiling/decocting the plants, such as vegetables and so forth. Various herbal teas are contaminated with carcinogenic pyrrolizidine alkaloids, which occur naturally in very many plant species worldwide and are produced by the plants themselves to ward off predators. However, the damage to the human being arises not directly from the alkaloids themselves, but in the liver due to their metabolic products, in which case these damage the genetic material, but can also be triggers for cancerous diseases. Green parts of tomatoes and raw potatoes contain phytotoxins, just as raw beans contain phasin, which as lectins belong to the group of haemagglutinins and negatively affect the red blood cells if the beans are not first cooked but eaten raw. If they are not cooked, however, then raw beans lead to diarrhoea as well as intestinal and stomach complaints, which can also be accompanied by bloody vomiting.

Morphine in poppy seeds is very problematic, as also prussic acid is not harmless, which, for example, can be found in the seeds of rosaceous plants, such as bitter almonds, apricots, peaches or cherries, in which case, if too much of it is eaten, the skin turns red, as also severe, fitful respiratory problems come up.

For children, eating such kernels can even be very dangerous and even fatal, indeed already when eating less than 5 bitter almonds.

Elderberry is loaded with sambunigrin, while cinnamon and dates have coumarin, whereby, if too much of these products is consumed, headaches, fatigue, dizziness and nausea can result.

Furthermore, nicotine is contained in the green parts of eggplants, and anthraquinone and oxalic acid are found in larger quantities in rhubarb as well as in small quantities in tea, cocoa and chocolate. Oxalic acid and calcium together form poorly soluble salts, which in larger quantities lead to severe kidney damage as also to vomiting and cramps, which can also lead to circulatory collapse.

Although no high doses are to be calculated for all these toxins, all of them – in addition to other plants and their toxins – exert certain effects on the entire human organism, for example, partly also on the ageing process.

Furthermore glycyrrhizin is to be mentioned, which belongs to the saponins and tastes sweet, in contrast to all other saponins, which have a bitter taste. Among other things, glycyrrhizin is the flavouring substance found in the root of the liquorice plant. High doses of glycyrrhizin, more than 100 mg per day, greatly increase high blood pressure and dangerously disrupt the cardiovascular system, as they also have an inhibiting effect on the excretion of water and display haemolytic effects, for example, with the consumption of too much liquorice.

That which still needs to be said about copper, which I have already mentioned, is that it not only harbours negative aspects, but also vital ones. Therefore it also functions as a catalyst by means of which the function of enzymes in almost all organs, that is to say, organ systems is controlled. Consequently, if copper is not present in sufficient quantities, then the entire elementary structural and functional processes in the organism cannot take place. As a trace element, it therefore performs vital functions in the entire organism. Copper is absolutely indispensable for energy production for the cell respiration, because the cells must be supplied with oxygen. However, only the smallest amounts are needed for this, which must not be exceeded, otherwise, with too much copper, damage will be called forth.

- a) Even a single mild overdose of copper leads to short-term suffering, in which case mostly vomiting and gastrointestinal symptoms arise; however, if a prolonged higher overdose occurs, then severe irreversible damage results, in which case liver and kidney damage occur, which can lead right up to organ failure or brain damage.
- b) If too much copper enters the organism, then, among other things, this leads to arthritis, but also to inflammation of the respiratory tract and other inflammations, namely especially in relation to the prostate and the digestive tract,

whereby also disturbances of the liver metabolism come to light and the blood pressure is driven up, as the whole thing can also lead to an increased risk of heart attack.

- c) If the copper value in the blood is not in order and therefore not correct, then this can be a sign that a liver disease is behind it. Copper is an essential trace element and a component of many enzymes. Among other things, copper is responsible for cellular respiration. The liver is responsible for the copper metabolism.

**Billy** Can you please explain something further; namely why and how various unhealthy foods cause suffering and illnesses as well as obesity, because certain foods contain harmful substances that are damaging to health therefore not beneficial to/serve the body, but rather make it susceptible to suffering and illness and additionally have a bodyfat building effect. It would also be interesting to hear from you about the effects of obesity.

**Ptaah** I can explain a few things about this, but I will not get too far into it, because everything would lead far too far, so I will just be brief and explain only the following:

1. Corn syrup: this fructose corn sugar corresponds to a genetically modified corn starch, which is extremely burdensome to organs, produces a fatty liver and can cause liver cirrhosis or liver cancer.
2. Yoghurt: this corresponds to a foodstuff, and if mould forms on it, then spores, mycotoxins, emerge from it. If these are consumed, they cause hereditary damage, such as embryo malformations and so forth.
3. Juice cures are unsuitable for the whole organism because deprivation and hunger attacks arise and tempt one to binge eating, which leads to obesity.
4. Commercially grown foods such as cucumbers, vegetables, cereals, berries, herbs and fruits and so forth, are all contaminated with plant protection products, namely with fungicides, pesticides, herbicides and insecticides. According to our findings and cognitions, quite especially large quantities of the pesticide fenamiphos are sprayed onto food crops, which is particularly carcinogenic, harms childrens' health and causes skin problems. Due to all these many toxins, more and more of the body's functions decrease, continue to deteriorate unstopably right up to chronic disease and endangering life.
5. The toxins in the food most notably and largely burden the liver, in which case they call forth chronic fatigue, listlessness, depressive moods and infections.
6. Alcohol also causes liver damage, because due to it the body cannot break down fat.
7. If the liver cannot break down the toxins transported to it, then loss of appetite and indigestion will result, whereby additionally the physical and consciousness-based performance capability also decline, and ultimately liver cirrhosis and failure of the liver become unstoppable because it can no longer compensate for everything that is transported to it. This leads to nothing in the entire organism of the body functioning in a normal form anymore. As a result, the metabolism can also no longer be regulated, as the liver can also no longer remove harmful substances and its function can no longer run in a normal form. Therethrough a greatly reduced performance capacity results through which also a weight gain arises and consequently losing excess weight becomes impossible and fat accumulates, and one goes about depressed, constantly listless, ill and weakened. Therethrough an impairment of the family life, of the friendships as well as of the relationships with the fellow human beings results; just as life becomes unpleasant due to a loss of self-consciousness and loss of joy for living.
8. If kidney damage occurs due to the toxins of all kinds, then the organ no longer functions properly.
9. Nutrients are optimally utilised by the liver, whereby carbohydrates, proteins, that is to say, amino acids and fat are broken down, converted and built up, resulting in an active metabolism and the formation of the important muscles, as well as important enzymes and hormones which are vital for human beings and without which they can neither live nor survive. Sugars, like carbohydrates of any kind, are stored or converted in the liver, that is to say, they are converted, that is to say, transformed, wherethrough energy is produced which, in the first instance, supplies the brain, but also other organs.
10. The very important function of the liver is also necessary for burning fat, because the metabolism is also controlled by it. Thereby however, it is only through the secretion of bile acids that fat digestion takes place and also the fat transport. On the one hand, the fat content in the blood and the place where fat is used or deposited in the body is likewise determined, as is, on the other hand, also the cholesterol content.

11. Sugar is metabolised in the liver, namely also predominantly converted into fat, which leads to obesity. This negative reaction can only be prevented by supplying nutrients that maintain liver function, which additionally also maintain vitality and regulate the body weight, with which then also a significant detoxification of the liver and organs is involved. However, there must not be either deprivation or hunger attacks occurring in the course of it, just as there must not be any juice cures undertaken, because these are completely unsuitable, as they contain harmful fructose through which the insulin level in the blood is greatly increased, just as too much of the hormone insulin enters the cells. This then results in the sugar being taken away much too quickly so that the blood sugar level drops too quickly, which then leads to hypoglycaemia, which leads to an excessive feeling of hunger. Therethrough the effect of an eating attack occurs, whereby then, as a rule, excessively fatty foods are eaten because they satiate well and quickly, which then inevitably leads to obesity quickly.

**Billy** I know this, but it must be added that nowadays practically all foods contain large amounts of sugar of all kinds and harmful flavour enhancers, and this is also the case with all those foods that should actually and normally contain no sugar. And this is also the case when there is no indication of added sugar and the food would have to be sugar-free, but sugar is added regardless. Unfortunately, however, this misleading practice is widely practised and sugarlessness is feigned under other names. Also salad dressings and sauces and so forth, right up to food items which one generally cannot imagine as having been adulterated by adding sugar, are, for example, fraudulently produced with huge amounts of sugar for diet food and sold under diet labels. But not only that, because such fraudulent products not only contain large amounts of sugar, but often also substitutes that are very damaging to health and damage the organism due to their properties.

**Ptaah** These scams at the expense of the health of unsuspecting human beings are known to me. However, that which I still wanted to mention relates to bitter substances, because in relation to a valuable diet it is important that many bitter substances should be eaten, because they are very important for the digestion and the liver. Among others, chicory, sage and dandelion, as well as endive, rocket, artichokes and Brussels sprouts, as well as broccoli have a very fresh and bitter taste due to bitter substances such as intybin and sinigrin. Also all kinds of other green leafy vegetables, such as spinach, chard, cabbage, sesame, radicchio, grapefruit, olives, bitter melon, bitter chocolate and wild asparagus also have bitter substances that stimulate the stomach, liver and gall bladder, as well as the vital pancreas, to function properly. The liver stimulates all these products to release their substances, namely by secreting more digestive substances, especially bile acids, which specifically influence fat digestion. This on the one hand, while, on the other hand, the pancreas contains enzymes for all nutrients in its liquids, from which the arising insulin controls the blood sugar level. Bitter compounds make the liver's extremely important activity easier and thus also support it with regard to digestion and detoxification, wherethrough it should be clear and understandable that bitter compounds are indispensable and vital.

**Billy** Thank you, Ptaah. And that actually covers everything as far as my questions today and so forth are concerned. ...

\*\*\*\*\*

## Important

- 1) No FFP1 masks should be used, only FFP2 masks.
- 2) FFP2 masks can be used for 8-12 hours, but ought to be disposed of after that.
- 3) FFP3 masks provide the best possible protection, up to 94-96% even against viruses.

\*\*\*\*\*

## Addendum

Transmitted by Achim Wolf  
Publishing permission

### Portugal: 41-year-old 'perfectly healthy' nurse dies two days after BioNTech corona vaccination

5th January, 2021, 7:32 pm

**The Portuguese health authorities launched an investigation after a nurse working in a cancer clinic died following a corona vaccination. According to media reports and her family, she was in 'perfect health' before the vaccination.**

28<sup>th</sup> December 2020: A hospital worker waits half an hour in the recovery area after being vaccinated with Pfizer BioNTech vaccine. (Lisbon, Portugal)

Sónia Azevedo worked as a surgical assistant at the Instituto Português De Oncologia, a cancer clinic in Porto. The 41-year-old was one of 538 healthcare workers who received the first partial vaccination of the Pfizer BioNTech vaccine on 30<sup>th</sup> December. She still spent New Year's Eve with her family – and was found dead in bed the next morning.

The mother of two was so proud to be among the first to be vaccinated that she even changed her Facebook profile picture: 'Vaccinated against COVID-19', she wrote under a selfie with mouth-nose protection.

"I want to know what caused my daughter's death," her father Abilio told Portuguese media. He described Sónia as a 'perfectly healthy and happy' person who 'never drank alcohol, ate nothing special or out of the ordinary'. "We don't know what happened. Everything happened quickly and is inexplicable," said her daughter Vânia Figueiredo. "I didn't notice anything unusual about my mother. She was fine. She only said that the injection site hurt, but that is normal," she added.

The cancer hospital meanwhile confirmed the woman's death and offered condolences to her family and friends. "The declaration of the cause of death under these circumstances will follow the usual procedures," the hospital added. The autopsy was scheduled for Monday. However, no results have been received so far.

Portugal, with a population of around ten million, has so far recorded more than 431,000 corona cases and almost 7,200 deaths related to SARS-CoV-2.

The vaccine developed by Pfizer and BioNTech is currently the only drug that has received emergency approval from the World Health Organisation (WHO). Therewith UN agencies can purchase and distribute the vaccine.

Source: <https://www.timesnownews.com/health/article/portuguese-healthcare-worker-dies-2-days-after-getting-pfizer-covid-19-vaccine/703466>

## **Israel: Hundreds of persons fall ill with COVID-19 after Pfizer/BioNTech vaccination**

Source: Reuters © Amir Cohen 2<sup>nd</sup> of Jan, 2021 10:00 pm

**About 240 Israeli citizens contracted COVID-19 after receiving the first dose of the Pfizer/BioNTech vaccine. The manufacturers point out that the infection protection of 95 per cent is only achieved one week after the second dose. Meanwhile, in Mexico, a female doctor was admitted to intensive care after receiving a BioNTech vaccine. She was diagnosed with encephalitis and spinal meningitis.**

### **Israel: Hundreds of people fall ill with COVID-19 after Pfizer/BioNTech vaccination**

About 240 persons in Israel fell ill with COVID-19 after receiving a vaccination. This was reported by the Israeli TV station Channel 13 News on 31<sup>st</sup> December 2020. One in a thousand vaccinated people reported side effects – 51 persons required medical attention. Four people died shortly after being injected with the vaccine.

Patients cannot be infected by the Pfizer/BioNTech vaccine because, according to the manufacturer, it does not contain any coronaviruses. However, it takes time for the genetic coding of the active ingredient to reorganise the immune system to fight the disease. Two vaccine doses are needed for the full effect. Studies show that the vaccine needs about eight to ten days after the first injection to provide an estimated 50 per cent protection against infection. The second dose should be injected 21 days after the first and, according to the manufacturer, increases the protective effect to 95 per cent about one week after the injection. Nevertheless, there remains a residual risk of five per cent for infection with SARS-CoV-2.

Furthermore, it has not yet been clarified whether a vaccinated person can continue to transmit the pathogen to other persons. Doctors argue that it is possible, despite one's own vaccination protection, to transport the virus, for example, in the nasal mucous membranes, where it is not destroyed by the body's own immune system. The viruses would then not infect the carrier – but quite likely other human beings.

Israel is currently undergoing a massive vaccination campaign. About one million Israeli citizens have already been vaccinated with the Pfizer/BioNTech vaccine – about twelve percent of the total population. According to Oxford University, this gives Israel the world's highest per capita rate of vaccinated persons measured against the total population. In the first vaccination phase, primarily older persons and medical personnel are vaccinated.

Vaccination side effects are accurately recorded in Israel: about one in 1,000 persons complained of side effects of the vaccination such as feeling weak, dizzy, fever, or pain, swelling and redness near the site where the needle was inserted. According to the Times of Israel on the 1<sup>st</sup> of January, 51 persons required medical attention after receiving the vaccine. Four persons died shortly after receiving the vaccination.

The Israeli Ministry of Health emphasised that none of the deaths was related to the vaccine dose. The most recent case of an 88-year-old man is still under investigation.

## Doctor in Mexico admitted to hospital after Corona vaccination

According to authorities in Mexico, a female doctor was admitted to an intensive care unit on the 2<sup>nd</sup> of January after being vaccinated with the Pfizer BioNTech vaccine. "The initial diagnosis is encephalomyelitis," the Ministry of Health there announced. This is an inflammation of the brain and spinal cord. The ministry also pointed out that the 32-year-old had shown allergic reactions in the past. So far, there is no known evidence from clinical trials that a person has developed inflammation of the brain after using Pfizer and BioNTech's vaccine. So far the two pharmaceutical companies could not be reached for comment.

Quelle/Source: <https://de.rt.com/der-nahe-osten/111291-israel-hunderte-personen-erkranken-nach-impfung-an-covid-19>

## Bioinformaticians find evidence of adaptation of coronavirus to vaccines

28th of December, 2020 11:11 am

**Bioinformaticians at the University of Washington in Seattle found evidence that selection pressure in SARS-CoV-2 leads to an adaptation of the virus. This would potentially render immunity, which would be achieved through vaccines, obsolete in a few years.**

Bioinformaticians find evidence of adaptation of coronavirus to vaccines

© Fushion Medical Animation/Keystone Press Agency

### Is SARS-CoV-2 mutating so much that vaccines will become useless in a few years?

Due to the mutation of SARS-CoV-2 that occurred in Great Britain, which is supposed to be up to 70 per cent more contagious, the question arises in parts of the population whether the vaccines developed so far also help against the new variant of the coronavirus or have become useless in the meantime. The pharmaceutical companies Pfizer, BioNTech and Moderna have so far assumed that their vaccines probably also help fighting the new variant of the virus. The reason for this is the previous assumption that the mutation rate and thus the genetic material of SARS-CoV-2 tends to change rather slowly, since these viruses have an RNA repair mechanism that corrects changes in the genes of the virus.

The companies are currently testing the efficacy of their active substances against the new virus strain. The founder of the BioNTech company, which was involved in the development of the vaccine together with Pfizer, also announced that a new variant of the mRNA vaccine could theoretically be developed within six weeks.

Microbiologist Ravi Gupte of Cambridge University, however, was more concerned. He told the BBC news portal that 'the virus has potentially taken the escape route from the vaccine':

The research results of a team led by bioinformatician Jesse Bloom from the Fred Hutchinson Cancer Research Center in Seattle, which are available on the 'bioRxiv' platform and whose review procedures are still pending, seem to confirm these fears. The researchers have now studied the evolutionary development of coronaviruses in detail for the first time and observed a so-called antigen drift. This effect ensures that viruses are exposed to selection pressure by the immune response of the human body. This leads to the viruses changing so much at some point that the immune system no longer recognises them and the previously formed antibodies become ineffective against them.

However, since SARS-CoV-2 has been circulating among human beings for less than a year and the evolution of the virus therefore cannot be observed directly, the scientists did not use SARS-CoV-2 directly for their experiments, but CoV-229E, another species of coronavirus. This variant of the coronavirus has been known since the 1950s and, like SARS-CoV-2, uses the receptor-binding domain on the so-called spike protein to implant itself in human cells. In their experiments, the researchers exposed the 229E viruses, which had mutated over time, to antibodies from the blood serum of human beings who had been infected with the original version of 229E viruses between 1984 and 2006.

The result of the experiments: under the selection pressure, the viruses were mutated so profoundly that the antibodies had little or no effect. In 1994, the serum of a 24-year-old female test person no longer showed any immune response to viruses from 1984, since the decisive sites of the receptor-binding domain changed by up to 17 percent. Furthermore, the researchers ascertained that the virus indeed changed more slowly than influenza B viruses, but about seven times faster than influenza A viruses.

However, as the researchers around Bloom also discovered, the mutation rate is not the decisive factor, because the change in the phenotype, therefore the appearance of the viruses is not synonymous with the mutation rate. The mutation rate is only part of the evolution of the viruses and also depends on how the evolution affects them. Previously, another research team led by Ravi Gupta had observed that in COVID-19 patients who were treated with the plasma of recovered COVID-19 patients, numerous new mutations of the viruses had formed that were able to escape the previously formed antibodies. How these cognitions will affect the effectiveness of the vaccines is still unclear. However, while emphasising that the studies were conducted with a 'different' coronavirus, Bloom explained:

According to the researchers, it is also possible that a so-called residual immunity could be effective against the new virus variants. However, it is also conceivable that the developed vaccines would be useless in a few years. According to the researchers, however, mRNA vaccines could be adapted relatively quickly and easily to new variants of SARS-CoV-2, similar

to influenza vaccines, which sometimes have to be 'customised' annually, as new mutations of influenza viruses emerge every flu season. However, unlike the recently developed mRNA vaccines, the long-term side effects of these vaccines are also known.

Quelle/Source: <https://de.rt.com/gesellschaft/111108-bioinformatiker-finden-hinweise-auf-flucht>

*Translation by Vibka Walder; corrections by Vivienne Legg and Christian Frehner*