

March 2021 Rory Duff Newsletter



We have come to a critical point of mankind's journey on this planet.

To progress beyond this and to bring in the T1 timeline of peace and happiness, we are going to need good smart logical thinking. But we are going to need to make some tough decisions right now to ensure that future.

Unfortunately, not everyone is capable of smart logical thinking. When faced with good observations that are factually supported, our thinking must accommodate these but only until other newer & better observations come along. It is then that we must be able to change our minds.

Stubbornness & rigid thinking is a result of prior programming either by yourself with self-suggestion or by others via modern propaganda techniques, false marketing & entrenched years old dogma.

Some people unfortunately are just not going to be able to change their minds – their programming has become too deep.

To leave these people behind in any coming transition though is not an option, we must help them through these evolutionary changes too, but to do that, we must change our own thinking.

I previously thought that we were and should be all in it together. Good well-presented thinking would win the day and people would be easily persuaded to change what they are thinking and doing. This will not work now.

To help everyone, we must separate.

My change of thinking is that division and separation is necessary to heal the whole. This does not necessarily mean physical separation though.

There is a two way 'naturedness' to this that is part of humanity and this theme will be built up within this newsletter in a way that will hopefully explain how I have had my own change of thought on this.

In a previous newsletter I wrote about Rupert Sheldrake's morphic resonance. This works through entrainment. Only a few people are needed to begin to effect these transitional and transformational changes but, to do this successfully, we must isolate and separate our minds from the masses.

I think now that the way to do this is for us to work in small interconnected, inter-dependent groups, using support networks, on a local, regional, national and, for some, an International basis.

This will allow us to more easily focus on the task at hand. Just what this means and what we need to do, I will cover in later on in this & later newsletters.

What we first need to do though is to switch off from the rubbish around us in order to help ourselves think more clearly.

We can take a lead here from the great Nicola Tesla who once said:-

"Throughout the infinite the forces are in perfect balance and hence the energy of a single thought may determine the motion of the universe"

Tesla was also said to have spoken about cosmic pain & cosmic peace. Whether this is actually true or not, I cannot confirm but it does rather nicely describe a really important aspect of nature that he does speak about and one that will help us greatly in the future. I will touch on this later in the newsletter too.

Would the leaders around the World tell us about an asteroid that was going to hit the Earth? Would they tell us about a coming catastrophe they along knew about? Could we trust them to do this, should we expect them to tell us? What if they knew about a catastrophe that was coming up within the next two decades all the way back since the 1950's? What if even the leaders of governments had been kept in the dark – on purpose?

It has always been thought that secrets are kept from presidents and prime ministers and only revealed on a need to know basis. So we have to perhaps ask is if there is anything that we are not being told right now?

Well, I have one real shocker for you in the Science section below and if any of you have heard of this before, outside of the small group where this originated, I will be very surprised. If it is true, it explains much. I will let you decide though.

Angela Merkel, the ex-German Chancellor and considered by many to still be the puppet leader of the EU recently said the following:-

“Everyone on the planet must be vaccinated”.

This came from an emotional outburst by Ms Merkel because of the growing number of Germans, and in particular German doctors, who are refusing to take the vaccine. In exasperation, she let slip and uttered this message and, in doing so, she has exposed the real agenda here. It is not about the virus, it is about the vaccine.

You just know they have a problem as a growing number of people are not buying into the narrative anymore. We cannot fight them & we should not try to. They will be looking harder and harder for dissenters soon as our leaders have been given targets on the numbers of people they must inject.

Many people are given to thinking that the lockdowns around the World will be lifted soon. In the UK, if the latest road map is adhered to, as early as April in the UK.

However, we know politicians are paid to lie. Some even admit that they withhold the truth for our own good.

In this newsletter I have written about a new hypothesis that might be what is really going on and why it is likely that shutdowns are here to stay with a strategy of putting them on and off basis indefinitely.

They will come and go and come back again but never be fully lifted. This new thinking explains why they think they have to do this and it's not about some great financial reset.

So, having written this introduction and mentioned one of the themes, I want to add that the other is about working in groups and this is why I have chosen the above image about which I will write more about later.

To start this off, I want to share with you my early experiences of moving energy lines and what major lesson emerged.

Earth Energies

I began to dowse by looking for water for farmers in Southern Africa and was taught by a fellow geologist who was from Italy. We dowsed, we drilled, we found water. It worked 100% of the time. It was not until I returned to the UK that I found out about the work being done by Hamish Miller. He was using dowsing methodology to discover things called Earth Energies.

It intrigued me, so I applied myself to look and see what he was finding for myself. What immediately intrigued having also found the same lines that he had, was what they were and what was causing them. It has been a long journey of discovery which has lasted over 25 years now.

So, when Hamish made a breakthrough, I would take notice. In his book 'In Search of the Southern Serpent' (2006), co-authored with Barry Brailsford, he talked about a time when he found several lines running through a prominent rock in the Abel Tasman National park called the Navigator. This can be found on the South Island of New Zealand. What was different this time though was that he found one line that did not run through the rock but instead he found it a few feet to the side.



It did not look right to him so he intuitively asked (In his words - The management) if the line also wanted to run through the Navigator. The answer came back as a yes.

Hamish proceeded to find a way to do this and received a huge jolt that threw him backwards as the line snapped back into place.

Fortunately this was a one off reaction, as though, I think, the Universe had just reacted to a major turn of events. Looking back now, I believe it really was. The understanding that we could move energy lines, and repair nodes the right way, had massive implications for mankind.

I have been teaching people to do similar repairs like this for over 12 years now and our learning has advanced massively but sometimes it is good to revisit some of the early lessons.

Back in 2007, I used to dowse with a friend called Keith. He is a well-respected local Ophthalmologist who was wonderfully sceptical – a very necessary trait when working with invisible lines.

He would independently check my work and I would independently check his. This way we could see what was happening and keep ourselves grounded.

Together we found and practiced four different ways to move these lines – each was necessary depending on circumstances.

To begin with we came across simple jobs which just involved moving one line back into a node to make it symmetrical. (Necessary symmetry though was only recognised as critical later on).

As we progressed, we began to find in other places that several lines all seemingly looked as though there should be a node but we had no real idea of where that would be.

In one instance we had tracked four pairs of lines that looked like they all going to cross over in some farmer's fields. To get there we had to go along a recognised public footpath called the Fosse Way. The path was a short section that replaced the old Roman road that ran all the way down to Exeter in Devon. *(Other parts of this Roman road can still be driven but this part was just a footpath)*

Having obtained permission we crossed over into the fields to try and work out what was going on and whether a node should be formed or not.

The answer was given that the lines could be moved and that we should do this with each one until they did not want to be moved any further.

Painstakingly, we did this for every line, marking out the new positions and directions carefully on the map. As we were moving the very last line it dawned on us what was happening, the node was being formed on the footpath.

On another occasion, there were so many smaller lines crossing over in one place, we just did not have the time to move each one individually. This was close to a fairly well known standing stone called the Tingle stone. Apparently, when you touched the stone you would feel a tingling sensation. We tried this and got nothing. Even a short meditation on the site brought nothing except Kieth got a surprise image of a very angry black cat that 'uninvitedly' jumped into his mind. *(Those of you who are aware of these images popping in from the subconscious mind might have good guesses as to the intended symbolism behind this that was being conveyed to us here and by whom).*

This stone, seen in the image below, stands on land owned by the British royal family and it had two type 3 lines running near to the stone, but not through it. It may well have been a place that led to a tingling sensation in the past, but with no lines running through it now, there was nothing.



So having found all the main energy lines running around the area, it was clear that a node used to exist here and probably at the Tingle stone.

In our minds, we kind of assumed that this was where the node was going to be reformed.

The problem was that when we came to moving these lines; they did not appear to want to do that. Instead, the node reformed on a nearby public footpath. Although access to the Tingle stone was allowed for the public, it was possibly not always going to be accessible for groups to gather there in the future. Either way, the node appeared to want to reform in a place that was more easily accessible.

In nearly all the times since then that I have repaired nodes, either on my own, or with others, it was found that they nearly always wanted to end up somewhere accessible to the general public. It was as though they wanted people to be able to easily gather around these places to pray and meditate.

I wrote 'nearly always' because sometimes it was natural for these nodes to also be found on areas of high ground. Many Mountain tops for example are places where the top is a very sacred place and some extremely strong nodes can be found on these. The 1st order node on top of Mount Kailash in Tibet (South West China) is one example. In the years I have now been mapping these lines, some of these places are only ever going to be accessible to experienced climbers. This in a way though, offers these places good protection.

So the key lesson here seemed to be that these earth energy line nodes want us to be able to gather around them. All we had to now do was to work out why and how.

This is where the theme of this newsletter and working in groups. I believe strongly now that groups of people need to start meditating around these nodes. Indeed much of my time now is spent finding sacred sites near to people who want to start groups and who are looking for strong energy centres for them to gather around.

As an update on this work for you, the last two months have been heavily focused on the USA and this has allowed me to update the map of the major lines that cross over all the states. I have to say that I am both shocked and amazed by what is coming through and how.

For example one minute I am working on a sacred site search request up in the very North East of Washington state and finding a type 4 alignment heading down to the South East, (*When working on a small scale this meant that the line, as far as I was currently aware, could exit the states anywhere between Texas and Georgia*) and the next day I get a request to look for a sacred site in Florida. Having started on that area, I then found a type 4 line heading up to the North West and to an almost unknown sacred mound in Mississippi. Exploring these similar directions, the synchronicity soon became apparent. Time was then spent tracking them both to see if they were indeed the one and the same alignment.

The upshot of all this was that they were and, not only that, the alignment was one that ran through the Big Horn medicine wheel in the North of Wyoming. This was a site that I had mapped remotely about 3 years previously. Not remembering what lines I had found there and what directions they were in, I did a short search through my papers and I found what I was looking for. The original mapping confirmed the same type 4 alignment and following in the same direction. It is these little priceless pieces of feedback that helps me in my work and I have to say how grateful I am to have been given the chance to do this.

I am still slightly swamped by the number of requests for sacred site searches, which is why I have asked for no more for a while on my website. Hopefully by the end of April though, I will have got through the back log. If you would like to contribute to my work then with a search request after that, it will be much appreciated.

Science

My hypothesis, in regards to the Earth's inner core acting as a transducer converting types of energy into spherical standing waves of ultra-low frequency vibrations, required a continuous source of that energy.

With no continuous source, the energy lines would not continually be where they are found.

For the smaller types of energy lines (3,2 & 1), it has been suggested that the Earth's own electromagnetism is the source.

For the type 4, solar linked lines, it is suggested the Sun is the source.

For the type 5 Emperor Dragons, it is suggested that the continuous source comes from the nearby Active Galactic Nucleii (AGN), including our own AGN at the centre of the Milky way galaxy.

This continuous source that is suggested for the type 4&5 lines, is from neutrinos that are created when cosmic energy hits our atmosphere.

These then travel through the Earth imparting energy to the inner core. The reason we are seeing wider energy lines and three new Emperor Dragons seems to be down to more cosmic energy getting to our atmosphere.

The reason for these increases in widths and energies, is almost certainly due to our falling shields – the three diminishing magnetic fields that protect us from these cosmic energies (These fields are the Local Interstellar Cloud, the Sun's and the Earth's magnetic fields).

The Earth's magnetic field is lowering so quickly and its poles are moving so rapidly that the magnetic field all around the World is dramatically changing. It is leaving stronger field areas and weaker field areas in places it has never done so before.

For example a large weakness in the field is found over South America and a slightly stronger field is found building over the India South East Asia area.

The reason for mentioning these things is that when cosmic energy hits our atmosphere it converts to neutrinos and gamma rays and it is the latter, that I have not really looked at before.

The reason this has become so important is that if the neutrinos are increasing, then so are the gamma rays.

It is the impact of the gamma rays that we should now turn our attention to.

A very good friend of mine, who is a highly skilled scientist, has a few days ago put forward a possible hypothesis that should have us all sit up and take notice. It is to do with the increase in gamma rays for the same reason we have an increase in neutrinos – our lowering magnetic fields.

Only this time, with more gamma rays appearing, this seems to have become a real hot potato, so much so that it is likely to be top secret information that even leaders of governments have been kept in the dark about.

Let me explain now about this new & very plausible hypothesis by taking you down its rabbit hole. This hole is possibly so deep that only a very few people have this information and they really do not want you knowing about it just yet.

Before I begin though, I need to go through some positive points.

Firstly, we know that these magnetic field strengths increase and decrease on a cyclical basis over thousands of years.

Every time our solar system passes through the Galactic current sheet, roughly every 12,000 years, we get these decreasing fields, shifting magnetic poles (magnetic incursions, not reversals) and regions on our planet that have increased or decreased amounts of gamma rays.

Secondly, mankind has survived these occasions but **the ionisation radiation** from the gamma rays can and does cause human cells to mutate. This is one of the main reasons why life has evolved on

this planet and we are going through another phase of human evolution right now. (Evolution is not all Darwinism and 'Survival of the fittest' – that is only part of the story – more about this in my book Grail Bound).

Thirdly, these things are predictable because they are cyclic. A few people have known this happens since the 1950's but they don't know when precisely because this 12000 years cycle is not exact. This is due to the wavy nature of the galactic current sheet.

This galactic current sheet behaves in exactly the same ways as the wavy nature of our Sun's current sheet. *(It's very wavy at Solar maximums and not that wavy at Solar minimums so the distance between the waves changes. So the Earth passes through them every 7-10 days)*

However what we also know from the Sun's sheet is how it affects the type 3 Energy line weekly cycles and this means we can get a good idea of when things are going to happen when we fully enter the galactic current sheet – just by looking at the earth energy line changes.

Why that is important, and what that will tell us and when, I will cover in future newsletters. The good news here is that we will get advance warning of anything happening but do not expect this to come from the authorities until the last moments when it is too late for the rest of us to prepare.

These changing energy lines are probably the only accurate way we have to predict when we fully enter the galactic current sheet and it is likely that the few people who do know about all these things are completely unaware of this at the moment. *(By the way, readers of the Goethe's Fairy tale should see the connection here with the Green snake and the revelatory expression 'The time is at hand').*

Having written all that, the key thing in these three points, that we must now focus our attentions on, is **the ionising radiation**.

Gamma rays, X rays and the higher ultraviolet part of the electromagnetic spectrum are all ionizing radiation (IR) which we know mutates cells and kills cells.

We know too that the lungs are particularly sensitive to IR.

It is known as Radiation-induced lung injury (RILI) and we know that it causes early inflammatory damage (radiation pneumonitis) and later complications of chronic scarring (radiation fibrosis). This unfortunately can happen in cancer patients as a result of their radiation therapy.

The damage to the lungs by the IR is said to then cause enhanced autophagy.

Autophagy is the body's way of cleaning out damaged cells.

An assistant professor at the University of Minnesota, Charles Dudley Mills, discovered that, as part of the cells healing process type 1 Macrophages kill cells and infections and cause cytokines to form and inflammation to occur, whereas type 2 macrophages clean out the waste and reduce the inflammation.

This autophagy occurs in order to regenerate newer healthier cells.

Radiologists know that the body needs help to do this after intensive radiation so they look for ways to assist this to happen.

Two ways that seem to work and which are under current investigation through trials is sunlight and melatonin and vitamin D. There are other treatments that are also being looked at and I will come to these later.

The immediate learn here is that if we are getting too much ionisation radiation through increased gamma rays, we need to get more sunshine and vitamin D into our bodies. *(Note here the irony that the Sun is providing both the problem and the solution – this is the ‘two naturedness’ occurring that I mentioned earlier)*

It can be considered that, as our ancestors survived during these evolutionary events, with their cells mutating, they must have had enough sunlight.

Where we live in the World, and how we live, now seems to be very relevant if we want to survive and thrive during these times of increased ionised radiation.

If we stay indoors, and get no Sun, it is going to decrease our chances of surviving. We may think that moving to a geographical location where there is more Sun is the answer. This though may not be the case as there is another factor involved here.

The problem is that the Earth’s magnetic strengths and weaknesses vary geographically on a regional and even a local basis depending on what rocks we live above and what electromagnetic energy lines we live on and more importantly, how our Earth’s magnetic field is changing.

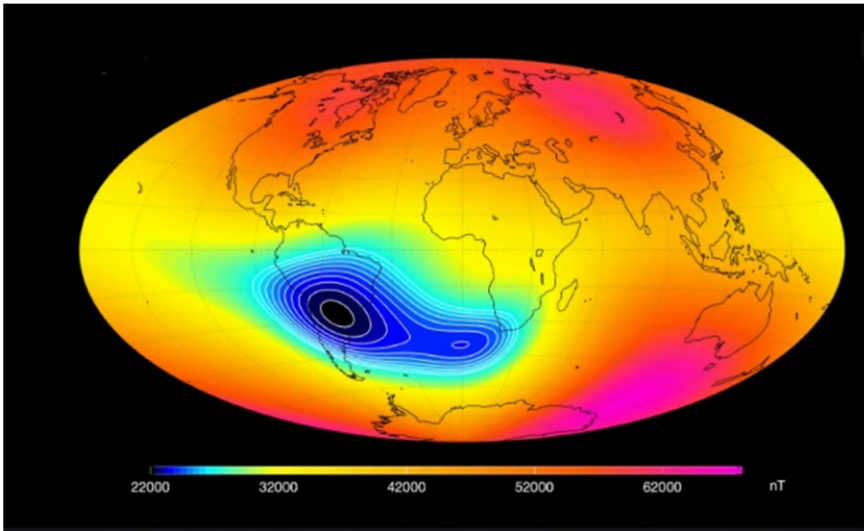
There is also the problem of uneven cascades of gamma ray particles coming down from the atmosphere. Waves of cosmic energy coming at the Earth will produce waves of gamma rays but these will be dispersed in cascades of greater or lesser amounts all over the Earth.

One side of a city may get much more than the other side. In one sense it is a bit of a lottery where we live but there are large areas that are going to be more protective and large areas that are going to be less protective – and this is where the sensitivity of this information kicks in.

At this point some people might be thinking that I should not be revealing such sensitive information. For me though, individuals should make choices for themselves and to make more informed choices they need better information. It is not for some wealthy powerful person to take that choice away.

The image below shows the magnetic anomaly map of the World as of May 2020. As the magnetic field is weakening, the poles are moving and anomalies are showing up. The large weakness in the field over South America can be seen below in blue and black. There will therefore be much more ionising radiation getting through to the people living there.

If this hypothesis is correct they will be getting well and truly cooked and this will result in large increases in the numbers of people suffering from lung problems. You would perhaps expect them to be worse here than elsewhere in the World.



So if a small group of people in power knew this was happening, would they tell the people living in those countries in South America?

If you were living in Brazil, what would you do if you found out and you were living in an area that was receiving much more radiation than normal?

If you had the money, would you move to another country?

If you did not have the money, what then?

(There is another side to this though. I can see how some healthy positive people might now have a good reason to want to go and live there – have a ponder on why this might be for a while. Is this the 'two way naturedness' at work again here?)

What about the people in the rest of the World and the fact that this increasing IR was sooner or later going to affect them? Would they start thinking about looking for shelter underground?

What now if you knew that this was a necessary part of human evolution (cellular mutation & DNA activation) and nothing to be worried about if you took the right preparations.

Could the appropriate actions of people living in this area help assist in bringing about the T1 route to a Golden Age? What would you now do?

This last question is what we now face but we must also now consider some similarities here with something else seemingly going on right now.

What has been described so far is a logical chain of thought for us experiencing an increase in gamma rays due to our lowering magnetic fields.

What is now an interesting exercise is to put two and two together and see what else emerges.

One of the treatments that is now on trial for ionising radiation is Hydruxychloroquine. (see <https://pubmed.ncbi.nlm.nih.gov/24991840/>) Presumably some group of people thought there was a good enough reason to start these expensive trials.

The abstract starts with the statement:-

“Preclinical studies indicate **autophagy inhibition** with hydruxychloroquine (HCQ) can augment the efficacy of DNA-damaging therapy.”

HCQ is of course something you may have heard about when used with Zinc that seems to have had some success in some countries in reducing the numbers of deaths in patients with Covid problems.

That it **inhibits increased autophagy** now indicates it is helpful to stop lung inflammation from ionisation radiation too.

Earlier I wrote that sunshine and Vitamin D had been considered as a good way to reduce the effects of Ionisation radiation in radiotherapy. Vitamin D is unique because it can be made in the skin from exposure to sunlight.

UVB light from the sun strikes the skin, and humans synthesize vitamin D3. This is the most natural form of the Vitamin. The other way we get vitamin D is from certain food like oil-rich fish such as salmon, mackerel, and herring.

Wearing a sunscreen with a sun protection factor of 30 reduces vitamin D synthesis in the skin by more than 95%. Using sunscreen then would presumably raise the risk of ionisation damage through radiation. *(Something to consider perhaps on holiday when we are able to go on one again).*

People with a naturally dark skin tone have natural sun protection but they require at least three to five times longer exposure to make the same amount of vitamin D as a person with a white skin tone.

Those people with a dark skin tone who live in sunny environments would therefore be expected to have good vitamin D levels and be well protected, as much as can be expected anyway, from Ionising radiation.

Those who don't are going to have to find other ways of increasing their Vitamin D levels. There has been some suggestion reported that Covid amongst the darker skin populations in the USA have fared far worse than the whiter skin populations (some say four to five times as worse), but in Africa, this anomaly is not found. This could well be due to the weather differences and skin exposure to sunlight.

So when we put all the similarities together an interesting possibility arises that the cause of the Worlds health problems right now might be sourced not from a virus but from increased gamma ray radiation.

We know radiation has the ability to mutate cells so it is not beyond the realms of possibility that it could have also mutated the Coronavirus and that it is still doing so with continued mutated forms appearing from time to time in rather widespread geographic centres. *(Is this due to the cascades of larger amounts of gamma rays?)*

The question remains though is this.

Is it the virus that is causing us the ill health problems or is it the gamma ray ionising radiation, or possibly even a bit of both?

To try and answer this question, we can look at further possible geographical evidence.

The respiratory viral pathogen severe acute respiratory syndrome coronavirus 2 - SARS-CoV-2 *(Notice the similar effect here it has on the lungs to the effect the Ionising radiation has on lungs)* has infected at least 20.1 million individuals and killed more than 737,000 people globally. This is not all countries equally though.

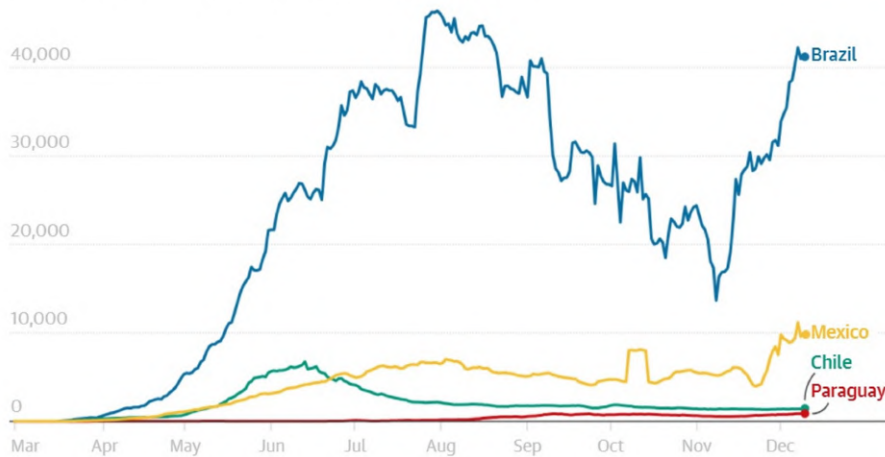
With a highly infectious virus, which is how it has been described, it ought to show that it was more spread out evenly. Instead it is rather patchy with whole countries being far more effected and some much less so.

The thinking up to now has been that it is down to the way people have been treated and how healthy the population generally was.

What is found though is a much higher rate of the illness in South America – the same place with the low magnetic anomaly where you would expect much more gamma radiation getting through.

Already badly affected Latin American countries are facing a second Covid wave

Total confirmed cases by day - seven day average of new cases

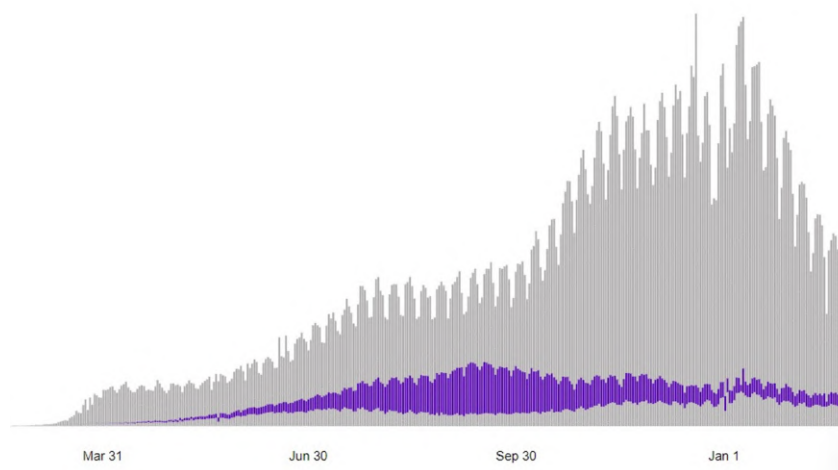


Guardian graphic. Source: Johns Hopkins University. Note: Numbers rely on public data from multiple sources

“The highest infection rate in South America is in Chile, which saw 7018 cases per million people on 8 June, followed closely by Peru at 5960 per million – around double that of Brazil’s rate and more than anywhere in Europe.” This is from a New Scientist article – the link to it is here <https://www.newscientist.com/article/mg24632863-300-how-south-america-became-the-new-centre-of-the-coronavirus-pandemic/>

(Incidentally, the last cosmic wave of energy we detected with observations on the energy lines was early last December and this seems to match when Brazil had an increase in cases)

In areas where we find strong anomalies building, we would expect to see less deaths and ill health that have been attributed to the Cirunovoros and we do in South East Asia.



The above table is from the World Health Organisations Covid 19 dashboard and it shows in purple cases in South East Asia compared to the Americas and Europe above in grey. Another chart also shows deaths to be similarly less. Data is taken from this website WHO Covid Disease Dashboard

<https://covid19.who.int/>

These two geographical observations are still the case even when we have differences in recordings of 'Death with Covid' and 'Death from Covid' done in different ways in different countries. The difference also stands apart even with possible differences in CT cycle rates used in the Polymerase Chain Reaction (PCR) test (This was covered in my January 2021 newsletter).

So if the problem is mainly due to the ionising radiation (from the increasing cosmic energy getting past our weaker magnetic fields) what then about the vaccine? Will that help or hinder the effect?

To help try and answer this we can perhaps begin to look at some of the phrases used in a recent scientific paper from one of the World's top scientific publications – Nature magazine.

This comes from an article in the September 2020 issue titled - Immunological considerations for COVID-19 vaccine strategies. The link is here <https://www.nature.com/articles/s41577-020-00434-6#Sec2> (This was an article about a paper written in the publication Nature Microbiology)

The first two sentences describe the problems some people are facing:-

*“Cytokine profiles from patients infected with SARS-CoV-2 resemble those in **macrophage** activation syndrome and are characterized by high levels of **inflammatory** cytokines and chemokines.”*

*“patients with SARS had **exaggerated inflammatory** cytokine profiles”*

Both of these could now fit with people with symptoms of ionised radiation.

“A potential barrier to the development of safe and efficacious COVID-19 vaccines is the risk that insufficient titres of neutralizing antibodies might trigger antibody-dependent enhancement (ADE) of disease.”

These scientists are indicating here the danger of ADE – which is an increase of the inflammation problem and there not being enough antibodies produced to tackle it.

Know here that vaccines are substances used to **stimulate the production of antibodies** and provide immunity against one or several diseases, prepared from the causative agent of a disease, its products, or a synthetic substitute, treated to act as an antigen without inducing the disease.

In other words it is all about building up the body's own ability to fight the virus.

The problem here though is if it is not the virus that's causing the main problem but instead it is the ionised radiation from the gamma rays.

The paper goes on to recognise previous studies and trials on animals with similar vaccines that did lead to ADE.

"ADE has been reported in some preclinical animal models vaccinated with experimental SARS-CoV vaccines"

In these previous studies all the ferrets and macaques monkeys exhibited **acute lung injuries** through ADE and autopsies showed almost no healing and anti-inflammatory type 2 **macrophages** in relation to type 1 types.

The original paper from Nature was titled '**Antibody-dependent enhancement and SARS-CoV-2 vaccines and therapies**' in Nature Microbiology volume 5, pages 1185–1191 (2020)

<https://www.nature.com/articles/s41564-020-00789-5>

Their conclusion at the end of the paper is as follows:- (It is my bold and colour fonts & misspelling)

*ADE has been observed in SARS, MERS and other human respiratory virus infections including RSV and measles, which suggests **a real risk** of ADE for SARS-CoV-2 vaccines and antibody-based interventions.*

*However, clinical data has **not yet fully established** a role for ADE in human COVID-19 pathology.*

Steps to reduce the risks of ADE from immunotherapies include the induction or delivery of high doses of potent neutralizing antibodies, rather than lower concentrations of non-neutralizing antibodies that would be more likely to cause ADE.

Going forwards, it will be crucial to evaluate animal and clinical datasets for signs of ADE, and to balance ADE-related safety risks against intervention efficacy if clinical ADE is observed.

*Ongoing animal and human clinical studies **will provide important insights into the mechanisms of ADE in COVID-19.***

*Such evidence is **sorely needed** to ensure product safety in the large-scale medical interventions that are likely required to reduce the global burden of COVID-19.*

There is a **large amount of uncertainty being expressed here** but this is not about the danger of the vaccine but **about it not working to stop the inflammation (ADE).**

They seem to have discovered that the **neutralising** antibodies being produced (which is what viccanes are supposed to do) are **not very efficient at reducing the inflammation**.

If the inflammation was caused by something else, it would explain this lack of results.

Instead they are recognising the problem of ADE and they are attributing this problem to non-neutralising antibodies.

Non-neutralizing antibodies are also produced after varil infection. They bind to the virus **but do not neutralize the infection**.

They can however enhance the infectivity instead because **their antibodies can affect the macrophages and the run-away inflammation** caused by the ADE and found in the dead animals.

So these scientists are clearly recognising the problem of inflammation, but by saying they still need 'important insights into the mechanisms of ADE in Covid 19', they are really showing us that **they do not understand what is causing the inflammation in the first place**.

It is as though they fully expected the vaccine to do what it was expected to do and cannot work out why it is not working.

The Scientists have already told us that the vaccine won't stop transmission and that it won't stop the virus (Things that vaccines should do) so **this is pretty much telling us that something else is causing the problem**.

Aside from tests being done on cells in laboratory (in vitro), which is not the same when done on living animals and humans, there is now a really big question in regards to what the source of the problem really is.

Is it really coronavirus and its variants or is it the gamma ray ionised radiation which will of course also affect/mutate the coronavirus and ourselves?

If the problem is just the coronavirus, we should expect them to evolve over time into less dangerous variants with the vaccines taking the role as the victor. However, if it is the increasing ionisation radiation, we must expect the situation to continue for several years – no matter how many vaccines are taken.

Governments will therefore want to put 'shutdowns' in place, then take them down again, only to put back them in place throughout the next few years. This will kill off any economic recovery, the wealthy will become wealthier and millions around the World will end up severely affected mentally.

More people may succumb to the radiation and its effects, others will look to take all necessary precautions to stay healthy enough to survive the worst of the effects (ill health) but there will be a few who will learn how to benefit from the positive side of these effects (spiritual evolution).

Hopefully there will be enough who do the latter, who can then go on to entrain everyone else in the World so we call all move forward into a coming golden age.

Is this now not typical of nature's way of providing two aspects of the same thing?

Is this now the same as Tesla's cosmic pain & cosmic peace in action?

This may well explain the high level of intuition that at least 30% of us have no desire to take a viccane. The intuition here is perhaps just a knowing that it will not have any positive effect on us. In addition to that it might even have the potential negative effects that I mentioned in my last newsletter.

So what do you think and more importantly what will you now do?

Clearly, not everyone is going to agree here with what is going on, but if you read my last newsletters, you can perhaps see how this information now leads us to come to realise that some of us think differently, perhaps with more inter-dependent freedom of spirit and for this reason, we need to come together more.

We may not be able to do so physically in groups for the moment, but we can do so in online networks. The benefits of beginning to do this though are already beginning to show. I will write more about this in later newsletters.

Social Media

We are watching the very fabric of society breaking down all around us when it comes to the dissemination of information and the blame for this must rest almost entirely on our politicians and their propensity to lie to us. This is on all sides of politics.

It is the nature of these lies that is what is important, it is not just what they say, but what they do not say that is also the problem.

For years now there has been a growing disposition in thinking that it is wrong to admit failure – as though in some way it admits is some kind of inner weakness. In truth weak people hate to admit failure, strong people accept failure is a natural part of life and learning.

Strong people learn from mistakes, weak people try to hide them.

The way the weak hide mistakes, and the way they cover things up, is strangely to eradicate any uncertainty and to make statements that are always pronounced as being facts.

You see uncertainty seems worry the weak and we have far too many weak politicians around. In the past the strongest rose to the top, now it would seem that those people who are incapable of doing anything else end up in politics – the very worst thing that could happen and its being going on for far too long in too many countries.

It is an easy problem to solve, just not easy to put the solution in place.

The reason I write this though is to bring up how science is now being reported by those people without strong scientific backgrounds.

Science progresses by making observations, learning from them and then designing new experiments to make new observations until a hypothesis can be built. This is then tested by more people by making observations until the hypothesis is robust enough to be able to predict new observations in advance of them being made. When it can do this it advances to become a theory – but never a fact.

You see hypotheses and theories can only ever be disproved, they can never be proved. In other words, no matter how good they are, there is always at least a 1% chance they could be wrong and therein lies the uncertainty.

Uncertainty is good thing though, being wrong can also be good, failure is good as each time as it can get closer to the truth.

We can never reach the full truth though – again because we can never be certain.

So when we hear modern day government or corporate paid scientists telling us ‘truths’, we must be wary, such a thing is not possible.

When the combined voice of corporate & military & government scientists all start calling things the truth, it is time to smell a rat.

In my last few social media posts, I have been calling out two cases where it is time to smell a rat.

The first is about the standard solar model that is telling us how our sun works & the second is relativity theory which supposedly tells us how the Universe works

Both now have ample observations that show they must be ditched and new hypotheses & theories followed.

The problem is that some people do not want this to happen. There are plenty of reasons why, they are now not important – we cannot change stubborn rigid thinking that is backed by billions in fiat money. We can only breakaway from it ourselves and switch off the voice of the weak.

In my posts I have drawn attention to the new model of the Sun with is solid metallic hydrogen inner core and how it solves the problems with the old model and I have drawn attention to the absolute failure to find evidence of the dark matter that relativity requires.

Instead we can go forward - knowing there is an alternative. There is a full theory of quantum gravity that explains how intelligence behind the universe must have arisen. This science supports the concept of our survival after death. This also supports the concept of plasma cosmology and the Electric Sun.

Again though, we don't have to worry about this Science anymore, we can progress further knowing that only a better theory can now emerge that still meets these observations.

There are now ways where energy can be drawn from the background, there are therefore new ways to draw endless energy that can power technology – ones that Tesla and many other people discovered but were immediately suppressed by the oil barons, the central bankers and their military & pharmaceutical co-conspirators in the past.

All we have to do is to ignore the old ways of thinking and embrace the new ways that will be coming in the new golden age where group consciousness replaces individual consciousness – just as Rudolf Steiner predicted would happen as the great cycles in time come and go and which we now know are linked to our solar system passing into and out of the galactic current sheet over large periods of time.

This really is the time to be positive about our future. Change is incredibly liberating.

Books

A book I read many years ago now is one I would recommend you to read if you would like to know more about Nicola Tesla's inventions. It is called 'The man who invented 20th Century' and it was written by Robert Lomas. <https://www.amazon.co.uk/Man-Who-Invented-Twentieth-Century/dp/148122980X>

Unfortunately there are some mistakes on the personal side to the book, for example Tesla was Serbian not a Croat and no account is made of his autism which made social interaction difficult for him.

It does however provide details of his story which is a good introduction to a man that, up until only a couple of decades ago, only a very few people knew anything about. Decades ago a process began to write him out of the history books because what he was scientifically investigating threatened so many wealthy people.

This was of course because what he was discovering would bring huge positive changes to mankind.

Change that improves lives is wonderful news for nearly everyone on the planet. Unfortunately change is the one thing that multinational corporations, ultra wealthy people and those with powerful military connections is hated – especially if it means loss of power and money.

Just think of the occasions when a new invention has extinguished a whole industry.

This is why change must be controlled at all costs by these people.

Tesla unfortunately for them was changing things faster than they could keep up with. He invented the AC DC electrical grid system we still use today. He invented the Hydroelectric generator used in dams around the World. He invented the Electric coil, the neon light and even sent radio waves way before Marconi did.

In his later years he went on to do even greater things – some of which we may never know about as all his scientific work was taken by the FBI on his death and not all of it was returned to his family. J. Edgar Hoover Director of FBI declared it "most secret".

What really upset the powerful people at the time was that they had spent many years and millions to push relativity theory to be accepted by the masses and by scientific establishments all around the World. They did this solely to curtail any investigations into the Ether and the background energy that existed there.

They had to stop these investigations because people were beginning to find ways to tap into this energy and this would soon mean that no one would need their oil or gas. But worse than that, it might not mean that they could control the World anymore through the trade in energy between countries.

If every country in the World became energy independent, it would be financially disastrous for them as well as stopping their hegemonic aims for World domination with one World Government and one World currency all controlled by the few – leaving the rest of us as their slaves.

Tesla therefore had to be written out of the history books of science and it very nearly worked for them.

Here is a statement Tesla made at a dinner party at the age 82

*"I have worked out a dynamic theory of gravity in all details and hope to give this to the world very soon. It explains the causes of this force and the motions of heavenly bodies under its influence so satisfactorily that **it will put an end to idle speculations and false conceptions, as that of curved space.** According to the relativists, space has a tendency to curvature owing to an inherent property or presence of celestial bodies.*

"Granting a semblance of reality to this fantastic idea, it is still very self-contradictory. Every action is accompanied by an equivalent reaction and the effects of the latter are directly opposite to those of the former. Supposing that the bodies act upon the surrounding space causing curvature of the same, it appears to my simple mind that the curved spaces must react on the bodies and, producing the opposite effects, straighten out the curves.

“Since action and reaction are coexistent, it follows that the supposed curvature of space is entirely impossible -However, even if it existed it would not explain the motions of the bodies as observed. Only the existence of a field of force can account for them and its assumption dispenses with space curvature. All literature on this subject is futile and destined to oblivion.”

You can clearly see here that he was not a fan of relativity theory.

What this statement also gives us though is an indication of his thinking in regards to the ‘two way naturedness’ of the universe. Tesla refers to action and reaction being coexistent.

This is not a form of duality though, or is it even an indication of the very bad ‘theory of opposites’ but instead one of a force that has an active and reactive component within it – rather like the yin and yang within energy.

It is perhaps here we can see how cosmic energy & plasma from galaxies and stars, including our own sun, carry both an active and reactive component within them. This being that they carry both a helpful and harmful element within them.

In other words they also contain both problem and solution.

It is as though nature always provides us with an exit strategy and all we have to do is look for it.

In the case of the harmful radiation from cosmic energy from the Sun coming from the gamma rays when it hits our atmosphere and causing lung inflammation, we find the Sun also providing an increase in Vitamin D which we can now see is able to reduce lung inflammation.

This action and reaction component within nature is going to be extremely important for us to remember in the near future when mankind is faced with even larger problems that nature may deliver us.

We can now know that it will also be delivering the solutions for us – we just have to search for them.

Indeed the separation of mankind into two groups, that I mentioned at the beginning of this newsletter, could now be seen to be similar to this and part of nature’s way to provide both problem and solution. The problem being the majority of people who will sit back and stubbornly resist change & do nothing and the other now necessary component who have awoken to realise they must stand up and change their thinking and do something in order to save all mankind.

Other

The image at the start of this newsletter shows a line of people all looking at the sunset. They sit with their backs to us. Although we can see they are a group, we can also see they are sitting separate from one another.

However if we look again, we can see that within the line, we can see people on their own, in pairs and in a group of three and a group of four.

I am sure this was probably not intentional at the time either, it just evolved like that as interactions occurred over the whole duration of the occasion.

With the theme of this newsletter being of groups and working in groups, I felt that this began to help show us what that might mean.

Some of you might have also been surprised that I should now be thinking of separation from the rest of mankind – even when you consider the good intentions behind it.

Group separation though is not negative. We have seen how nature itself can separate out and can come back together again wholly and more strongly.

With this 'two way naturedness' that may well include both cosmic pain and cosmic peace, one might well ask which of the separate groups will receive the pain and which the pleasure.

Will it be the awakened few that get the pleasure of the Golden Age with the remainder living on in some cosmic nightmare?

The truth however is that it is likely to be exactly the opposite that occurs.

The few that choose to awaken have a hard path to still yet travel. Awakening is not about just understanding and knowing, it is also about changing.

If entrainment for all is the goal, then it is the few that must suffer the pain and hardship of the internal changes we must endure.

In my previous newsletter, I wrote about the numbers 1-12 and how we need to find the right 12 people to come together in groups at sacred sites. In doing this, all participants will be embarking on a journey of discovery. Yes we will all be functioning individually within groups and in pairs and in a smaller group within the group, but each person needs to be as self-actualised as possible.

This self-actualisation is all to do with self improvement.

Not only will it be a discovery of what groups of people can learn to do together, it will also be a journey of inner self discovery for the individual and therein will be found the pain.

These symmetrical energy sacred sites, with their columns of cylindrical energy & their double tori and vortexes, are the grail castles that the knights in the grail legends would visit along the grail path they were following.

This path has many names, it is ones vocational path – the path we are called to do in life – the purpose we came back into the World.

It is also Jung's path of individuation and we find similar names for it in cultures all around the World.

It is the very essence of the hero's & heroine's quest and along the way we find that it is our weaknesses that are challenged.

If you have read Jung's red book, you will know how he struggled with this on his own. He was a man before his time, like Steiner, Goethe, Deunov and certainly many others. All of them had been challenged throughout their life, albeit in different ways, but all were more enlightened and ahead of those around them because of that.

Time, however has now caught up with where they already were, their prophecies and their life's work was to help prepare us for the task now at hand.

It is the time now for us to come together to work in groups as we are at the cusp between individual consciousness and group consciousness.

We must remember what we learnt as individuals and take this with us on our journey. Each of us still has a unique role to play within groups but to do this, we must both recognise this uniqueness in ourselves and in others and we must also look at helping each other become internally strong in all areas.

If you remember reading the grail stories, the knights would sometimes travel on their own and sometimes they would join together on the path. Our time has come for us to join together.

We must work in groups at times on our own, at times in pairs and at times as a whole – just as we see inadvertently mirrored in the image at the start of the newsletter.

Just what we must do and how we will do this will emerge soon from amongst the groups themselves. All we have to do is to start networking and to start making connections between networks.

All that will naturally arise to if we do just one thing – meditate on the energies and ask for synchronicity and for help to both recognise it and to explore it and then act upon what we find.

The Universal consciousness and all those 'Beings' who are helping others on all the different matter frequency Worlds, will then provide us with what we need at the right time.

In receiving this, we can then take our turn in sharing and helping others – including those who have not taken this much harder route of awakening.

In future newsletters, I will develop this theme further with what is being uncovered. At the outset, what I would say is that learning within groups is already advancing so much more rapidly than individual learning.

A couple of things will occur before my next letter though. Firstly the next harmony time meditation begins on the 19th March. Group meditation starts at midday on that day, all around the World. I will be taking a walk where I normally go every Summer harmony time.

This time the harmony period is likely to last over 9 days. These durations are steadily extending as we fully enter the galactic current sheet. If you are new to meditations, these should not be guided

meditations but ones where we all connect with the universal consciousness. We each meditate in our own way for now, but breathing in love and then breathing out love is the universal way we all start.

The other thing that will be happening towards the end of March is that the next wave of energy will be hitting us. These are advance waves that come ahead of the main wave and we can expect them to grow in size each time and we can expect the time between them all to shorten each time.

They used to come roughly every 6 months, they are now down to three and by the end of the year, the waves will be coming every 2 months and beginning to move to monthly.

All this is of course both good and bad as these waves bring with them both positive and negative effects – something I have touched upon in this newsletter with increases in radiation.

Much good though is also brought to us – if we prepare well for it in advance.

Thank you so much for the time you have taken reading this newsletter. Please do share it to people who you think might appreciate it.

More about my work can be found at www.roryduff.com and for a gentle introduction to it all, I would suggest you try reading my novel the Grail Hunter. The first few pages can be read on the website to see if you like it. I know people who have not read a novel in many many years, saying how much they found they had missed reading a good novel having finished it.

Of course that may well mean the opposite too 😊 but you can be the judge of that if you wish to.

Universe destructive and creational aspects of the same thing Cosmic pain and Cosmic Peace – Plasma and Cosmic energy coming – one constructive evolutionary one destructive but in each one there is also both solution and problem for us to find – again two aspects of the same thing. The universe does not leave us without an escape plan.

Why we must expect the internet to be taken down on purpose in the future and why this will not stop us doing what we must do to ensure T1 stays on track.

Working in groups – humans divided into two aspects of the same thing in order to bring about positive change – it is entirely natural to do this individuals in control to groups

Group mentality Group consciousness

Steiner thoughts

COVID & Space Weather: A Wacko Idea

This morning I started typing out a quick reply to [@Julie Yates](#) and it quickly grew into something worth launching in its own right. Cop this..

COVID is considered a lung thing but we should note the sensitivity of the lungs to ionising radiation (Wiki entry attached). Pulmonary edema can quickly lead to respiratory failure or cardiac arrest, the latter being a common cause of young COVID death. Blood clotting is also a COVID thing but blood clotting is a common complication after ionising treatment for prostate cancer in men. Ionising radiation bursts cells and so clotting kicks in.

The Spanish 'flu didn't reach all parts of the globe but COVID has, and in a most peculiar hop-scotch manner too. If viral transmission by droplet is a thing then all postal workers, shop workers and delivery drivers would have succumbed *en masse* back in April 2020. Whole supermarkets would have been closed down and decontaminated. The story is told of how the virus spread from China in January 2020 but studies show evidence of COVID in other parts of the globe prior to this. Folk report similar symptoms in 2019 and even 2018.

If high energy gamma rays are smashing through the atmosphere they'll cause an **ionised particle cascade that will affect a localised area**. Older folk won't have the physiological health to handle the bombardment. Younger folk getting a direct hit are also at risk. The hit pattern would be quasi random but modulated by our weakening magnetic shield (**S. America suffered the greatest casualties *per capita* and sits under a weak magnetic anomaly**).

To minimise damage arising from a cascade folk would have to be banned from gathering in groups whenever and wherever they are, even indoors. Social distancing doesn't stop an airborne virus or transmission by droplet but it will minimise risk to the public from localised cascades.

A family in one house may get hit and all suffer but the family next door, who may have socially interacted, will not - this strange aspect of 'transmission' is what is observed. Nursing homes and hospitals, being gatherings of folk with poor immune function, are sitting targets.

Any old measures would be introduced by governments globally to avoid mass panic and give the public something conventional to chew on. Figures would have to be adjusted to make it look like a spreading global viral pandemic. The vaccine, through introduction of casualties, may well be another attempt at masking what is actually going on. Feeling ill or weird? That's the vaccine! Feeling ill or weird? That's the virus! London hit by a cascade storm? That's the new UK strain!

I'm pretty sure the situation will be classified well above top secret, with few leaders having any clue. Conspiracy theories will provide an excellent secondary smoke screen for those who can still think and I can see the CIA launching counter-intelligence ops all over.

But...

Ionising cosmic radiation isn't a new thing and us hairy critters have evolved to deal with it. In fact, we may have evolved because of it! Guess what vitamin helps modulate the effect of ionising radiation more than any other? Yes indeedly, vitamin D3.

Everyone is accepting 'long COVID' as a thing despite no known viral mechanism. Long COVID also offers a clinical paradox in that if our immune system has somehow stopped working then no vaccine that stimulates this will be of any use! We should note vitamin D3 - our natural radiation shield - is now being used to treat long COVID. Perhaps that should read long COSMIC. It should come as no surprise to learn long **COVID symptoms mirror those of radiation poisoning**.

Before I slurp my cuppa it is worth noting that, back in 2007, **hydroxychloroquine** was trialled in stage IV cancer patients receiving high does of radiation. It was thought to **enhance autophagy**, this being the destruction of cells damaged by radiation i.e. hydroxychloroquine assists in healing radiation damage. Ironically, we are currently labelling this as a re-purposed medicine.

By assisting type 2 Macrophages to reduce inflammation as the type 1 macrophages were creating too much inflammation

Shakespeare once said something insightful about a lady protesting too much. They sure are going to great lengths to get the concept of a transmissible virus into people's bonces and I have yet to see a medic raise an eyebrow whilst figuring COVID symptoms precisely mirror radiation sickness. Nobody let off a nuke so I guess they just don't bother to look up. Thanks to our very own [@Katrina Millard](#) for the newspaper clipping. I rest my sandwich box.

WARNING: I might just be stark raving crackers!

https://en.wikipedia.org/wiki/Radiation-induced_lung_injury

sensitivity of the lungs to IR causes inflammation within them, it **enhances autophagy** – Cancer patients radiotherapy too much kills cells

Radiation-induced lung injury (RILI) is a general term for damage to the lungs as a result of exposure to IR

Physicians have to come up with ways to reduce this damage and I will come to these later

Ionizing radiation

From Wikipedia, the free encyclopedia

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Ionizing radiation (ionising radiation) consists of [subatomic particles](#) or [electromagnetic waves](#) that have sufficient [energy](#) to [ionize atoms](#) or [molecules](#) by detaching [electrons](#) from

them.^[1] The particles generally travel over 1% of the [speed of light](#), and the electromagnetic waves are on the high-energy portion of the [electromagnetic spectrum](#).

Gamma rays, X-rays and the higher ultraviolet part of the electromagnetic spectrum are ionizing radiation, whereas the lower energy [ultraviolet](#), [visible light](#), nearly all types of [laser light](#), [infrared](#), [microwaves](#), and [radio waves](#) are [non-ionizing radiation](#). The boundary between ionizing and non-ionizing radiation in the ultraviolet area is not sharply defined, since different molecules and [atoms](#) ionize at [different energies](#), but is between 10 [electronvolts](#) (eV) and 33 eV.

Typical ionizing subatomic particles due to [radioactive decay](#) include [alpha particles](#), [beta particles](#) and [neutrons](#) and almost all are energetic enough to be ionizing. Secondary [cosmic particles](#) produced after [cosmic rays](#) interact with Earth's atmosphere include [muons](#), [mesons](#), and [positrons](#).^{[2][3]} **Cosmic rays may also produce radioisotopes on Earth (for example, carbon-14), which in turn decays and emits ionizing radiation.** Cosmic rays and the decay of radioactive [isotopes](#) are the primary sources of natural ionizing radiation on Earth contributing to [background radiation](#). Ionizing radiation is also generated artificially by such as [X-ray tubes](#), [particle accelerators](#), and [nuclear fission](#).

Ionizing radiation is not detectable by human senses, so instruments such as [Geiger counters](#) must be used to detect and measure it. However, very high intensities can produce visible light such as in [Cherenkov radiation](#). Ionizing radiation is used in a wide variety of fields such as [medicine](#), [nuclear power](#), research, and industrial manufacturing, but presents a health hazard if proper measures against excessive exposure are not taken. Exposure to ionizing radiation causes cell damage to living [tissue](#) and in high acute doses can result in [radiation burns](#) and [radiation sickness](#) and lower level doses over a protracted time can cause [cancer](#).^[4]

Radiation-induced lung injury

From Wikipedia, the free encyclopedia

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Radiation-induced lung injury (RILI) is a general term for damage to the [lungs](#) as a result of exposure to [ionizing radiation](#).^[1] In general terms, such damage is divided into early [inflammatory](#) damage (radiation pneumonitis) and later complications of chronic [scarring](#) (radiation fibrosis). Pulmonary radiation injury most commonly occurs as a result of [radiation therapy](#) administered to treat [cancer](#).

Clinical Trial

Autophagy

. 2014 Aug;10(8):1359-68.

doi: 10.4161/auto.28984. Epub 2014 May 20.

A phase I/II trial of hydroxychloroquine in conjunction with radiation therapy and concurrent and adjuvant temozolomide in patients with newly diagnosed glioblastoma multiforme

[Preclinical studies indicate autophagy inhibition with hydroxychloroquine \(HCQ\) can augment the efficacy of DNA-damaging therapy.](#)

[Autophagy: Definition, Diet, Fasting, Cancer, Benefits, and More](#)

www.healthline.com › health › autophagy

23 Aug 2018 — **Autophagy is the body's way of cleaning out damaged cells** in order to regenerate newer, healthier cells, according to Priya Khorana, PhD, in nutrition education from Columbia University. "Auto" means self and "phagy" means eat. So the literal meaning of **autophagy** is "self-eating."

Mills, who died on May 28, 2017, identified the most important dichotomy in **macrophage** function: he observed that **M1 macrophages** kill (infectious organisms, virus-infected cells, or tumor cells) and **M2 macrophages** heal (sterile wounds and, with less success, cancer).

Based on this definition, **M1 macrophages** are able to start and **sustain inflammatory** responses, secreting **pro-inflammatory** cytokines, activating endothelial cells, and inducing the recruitment of other immune cells into the inflamed tissue; on the other hand, **M2 macrophages** promote the **resolution of inflammation**, .

Animal trials No Macrophage type 2 found – therefore no control over inflammation

Vaccines possible evidence of ADE

Macrophage activation syndrome

Inflammatorycytokine profiles

Acute lung injury ferrets and macaques monkeys – no type 2 macrophages

A potential barrier to the development of safe and efficacious COVID-19 vaccines (Box 2) is the risk that insufficient titres of neutralizing antibodies might trigger [antibody-dependent enhancement](#) (ADE) of disease. ADE is most classically associated with dengue virus, whereby cross-reactive but

subneutralizing concentrations of antibodies to one virus serotype enhance infection with another serotype in Fcγ receptor (FcγR)-bearing cells, including macrophages⁶². A common property among viruses that cause ADE is an ability to replicate in macrophages and/or cause them to respond abnormally. Although macrophages do not seem to be a major target of SARS-CoV-2 infection, and the expression of ACE2 on different monocyte and macrophage populations is highly variable, previous data regarding SARS-CoV suggest that FcγRs can facilitate uptake of the virus into macrophages and B cells^{21,63}. Cytokine profiles from patients infected with SARS-CoV-2 resemble those in [macrophage activation syndrome](#) and are characterized by high levels of inflammatory cytokines and chemokines^{21,64,65,66}. Furthermore, patients with symptomatic COVID-19 are reported to produce IgG antibodies with reduced fucosylation levels, which in turn promotes their interaction with activating FcγRIIIa⁶⁷.

The evidence for ADE in the context of SARS-CoV infection is circumstantial. Correlations between antibody titres and infection severity have been reported, but it is unclear whether high antibody titres contribute to disease or whether severe infections elicit higher antibody titres⁶⁸. Also, macrophages treated in vitro with serum from patients with SARS had exaggerated inflammatory cytokine profiles^{69,70}.

ADE has been reported in some preclinical animal models vaccinated with experimental SARS-CoV vaccines. Ferrets vaccinated with a modified vaccinia virus Ankara (MVA) vaccine expressing full-length S protein had increased infection and hepatitis following challenge^{71,72}. Antibodies to S protein were reported to induce acute lung injury in experimentally infected macaques on the basis of histological examination⁶⁹. By contrast, hamsters vaccinated with recombinant, full-length SARS-CoV S protein were protected against infection despite the ability of antibodies to mediate entry of SARS-CoV into B cells through FcγRII (ref.⁷³).

Radiological health expert Daniel Hayes, Ph.D., of the New York City Department of Health and Mental Hygiene suggests that a form of vitamin D could be one of our body's main protections against damage from low levels of radiation.

There is a suggestion that Vitamin D and melatonin may help with Ionisation radiation – Tablet form but in real time light from the Sun may be the best source of Vitamin D and melatonin

Review Ionizing Radiation as a Source of Oxidative Stress—The Protective Role of Melatonin and Vitamin D Jarosław Nuszkiwicz *, Alina Woźniak and Karolina Szewczyk-Golec * Department of Medical Biology and Biochemistry, Faculty of Medicine, Ludwik Rydygier Collegium Medicum in

Abstract: Ionizing radiation (IR) has found widespread application in modern medicine, including medical imaging and radiotherapy. As a result, both patients and healthcare professionals are exposed to various IR doses. To minimize the negative side effects of radiation associated with oxidative imbalance, antioxidant therapy has been considered. In this review, studies on the effects of melatonin and vitamin D on radiation-induced oxidative stress are discussed. A

Vitamin D from the Sun

Vitamin D insufficiency affects almost 50% of the population worldwide. An estimated 1 billion people worldwide, across all ethnicities and age groups, have a vitamin D deficiency (VDD). This pandemic of hypovitaminosis D can mainly be attributed to lifestyle (for example, reduced outdoor activities) and environmental (for example, air pollution) factors that reduce exposure to sunlight, which is required **for ultraviolet-B (UVB)-induced vitamin D production in the skin**

Biology of the sunshine vitamin

Vitamin D is unique because it can be made in the skin from exposure to sunlight.[3,8–10] Vitamin D exists in two forms. Vitamin D₂ is obtained from the UV irradiation of the yeast sterol ergosterol and is found naturally in sun-exposed mushrooms. UVB light from the sun strikes the skin, and humans synthesize vitamin D₃, so it is the most “natural” form. Human beings do not make vitamin D₂, and most oil-rich fish such as salmon, mackerel, and herring contain vitamin D₃.

Wearing a sunscreen with a sun protection factor of 30 reduces vitamin D synthesis in the skin by more than 95%

People with a naturally dark skin tone have natural sun protection and require at least three to five times longer exposure to make the same amount of vitamin D as a person with a white skin tone.

This may explain...more deaths and illnesses in this group – but not in Africa – location may therefore be significant - magnetism.

Predictable increase in cases – CT cycles can be changed to prolong a crisis when they want to

Difficulties in breathing reported in Cvd cases

What to expect

Cosmic energy

Plasma

Cosmic energy It can affect mantle viscosity leading to more earthquakes

<https://www.sciencemag.org/news/2021/02/ancient-kauri-trees-capture-last-collapse-earth-s-magnetic-field#:~:text=Several%20years%20ago%2C%20workers%20breaking,tree%20species%20in%20New%20Zealand>

Science

Ancient kauri trees capture last collapse of Earth's magnetic field

By [Paul Voosen](#) Feb. 18, 2021 , 2:00 PM

Several years ago, workers breaking ground for a power plant in New Zealand **[unearthed a record of a lost time](#)**: a 60-ton trunk from a kauri tree, the largest tree species in New Zealand. The tree, which grew 42,000 years ago, was preserved in a bog and its rings spanned 1700 years, capturing a tumultuous time when the world was turned upside down—at least magnetically speaking.

Radiocarbon levels in this and several other pieces of wood **[chart a surge in radiation from space](#)**, as Earth's protective **[magnetic field weakened](#)** and its poles flipped, a team of scientists reports today in *Science*. By modeling the effect of this radiation on the atmosphere, the team suggests Earth's climate briefly shifted, perhaps contributing to the disappearance of large mammals in Australia and Neanderthals in Europe. "We're only scratching the surface of what geomagnetic change has done," says Alan Cooper, an ancient DNA researcher at the South Australian Museum and one of the lead authors of the study.

The study not only nails in fine detail the timing and magnitude of the magnetic swap, the most recent in Earth's history, but is also among the first to make a credible, though speculative, case that these flips can affect the global climate, says Quentin Simon, a paleomagnetist at the European Center for Research and Teaching in Environmental Geoscience in Aix-en-Provence, France. But some paleoclimate scientists are skeptical of the team's broader claims, saying other records show few traces of climate upheaval.

Earth's magnetic field is created by the flow of molten iron in the outer core, which is prone to chaotic swings that not only weaken the field, but also cause the poles to

wander and sometimes flip entirely. The magnetic orientations of minerals in rock record long-lasting reversals, but can't capture the details of a flip lasting hundreds of years, like the one 42,000 years ago.

Radioactive carbon-14, however, can mark these shorter fluctuations. The isotope is produced when cosmic rays—charged particles from outer space—slip past the magnetic field and strike the atmosphere. It is taken up by living things, and its specific half-life makes it a standard clock. The team used radiocarbon to date the kauri wood by lining it up with accurate, but coarse, radiocarbon **cave records from China**. And by measuring finer carbon-14 changes in the rings, they tracked how its production varied over 40-year intervals, as the magnetic field ebbed and surged. “It’s just amazing you can do this back 42,000 years ago,” says Lawrence Edwards, a geochemist at the University of Minnesota, Twin Cities, who worked on the Chinese cave records.

Spikes in radiocarbon indicated **the magnetic field weakened to some 6% of its present day strength by 41,500 years ago**. At that point the poles flipped and the field recovered some strength, **before crashing and flipping back 500 years later**. Cooper notes that not only was Earth’s cosmic ray shield down; the Sun’s was, too. **Evidence from ice cores** suggests that, around this same time, the Sun was experiencing several “grand minima”—episodes of low magnetic activity. **The resulting cosmic ray assault charged the atmosphere to a level that would have knocked out today’s power grid** and created aurorae in the subtropics, Cooper says. “What happens when the atmosphere is that ionized?” he asks. “God only knows.” (The paper is the first Cooper has led since **he was fired** in 2019 from the University of Adelaide following allegations that he bullied staff and students; Cooper has denied the allegations.)

To explore the consequences, the team ran a climate model, which suggested the cosmic ray bombardment would have eroded the ozone layer, reducing the heat it normally captures from ultraviolet rays. **The high altitude cooling would have changed wind flows, which in turn may have led to “drastic changes” on the surface**, including a cooler North America and warmer Europe, says Marina Friedel, a team member and doctoral student in stratospheric chemistry at ETH Zurich.

This is where other scientists say the study gets too speculative. Ice cores from Greenland and Antarctica that span the past 100,000 years capture stark temperature swings every few thousand years. But they show no shifts 42,000 years ago. A few Pacific Ocean records do show swings. But even if the shift occurred mostly in the tropics, as Cooper and colleagues suggest, it should be seen in the ice, says Anders Svensson, a glaciologist at the University of Copenhagen. “We just don’t see that.”

The study team goes further to argue that a climate shift could account for a spate of curious events 42,000 years ago. Most notably, large mammals in Australia went extinct around that time. Neanderthals vanished from Europe, and elaborate cave paintings began to appear in Europe and Asia. Still, neither milestone in human evolution lines up well with the flip 42,000 years ago, and neither was sudden, says Thomas Higham, an archaeologist and radiocarbon expert at the University of Oxford. Linking them to the field reversal, he says, “seems to me to be pushing the evidence too far.”

***Correction, 19 February, 1 p.m.:** A previous version of this story misstated the ancient climatic shifts for Europe and North America based on the team's model.