

The Humanicsxian: The Elleesium: England: UK: Issue: 06: Thursday: November 09: 2023

|| Israel: Palestine: Stop the Slaughter NOW and Strive For Peace in a Two-State Solution For Both the Israelis and Palestinians: Eternal Slaughter Bloodshed Hatred and Destruction Are the Absolute Opposite of Peace: It Is Time For Visionaries Who Have the Vision Courage and Skill to Work For and Build That Peace Together ||



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The Humanicsxian



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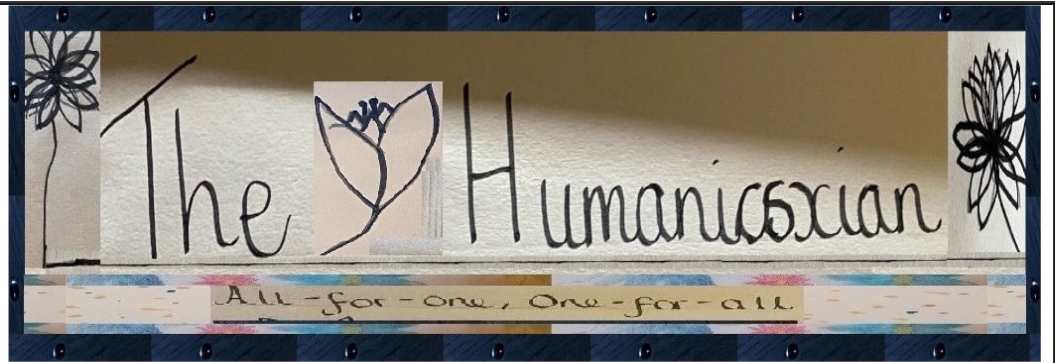
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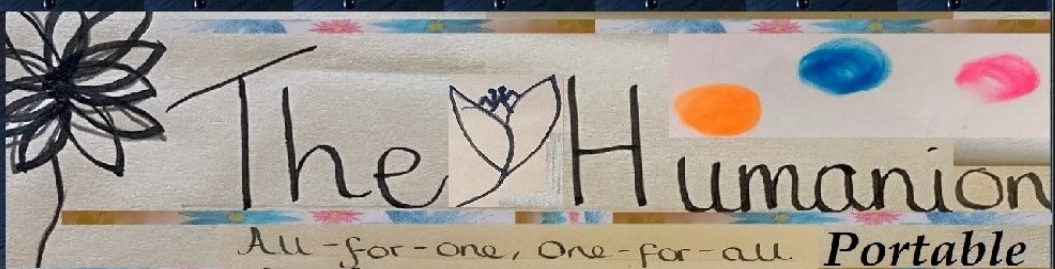
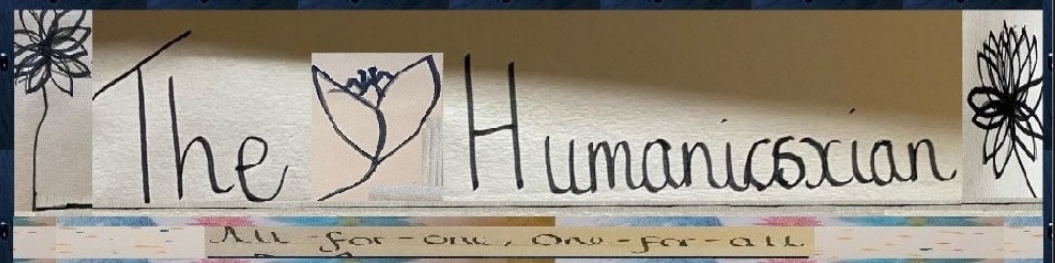
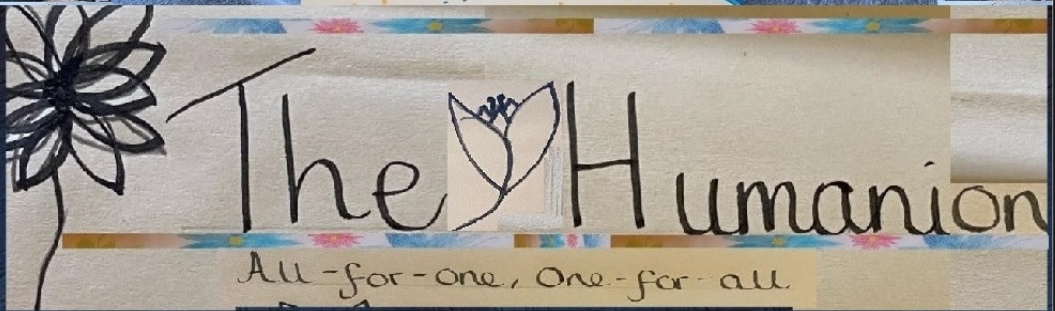
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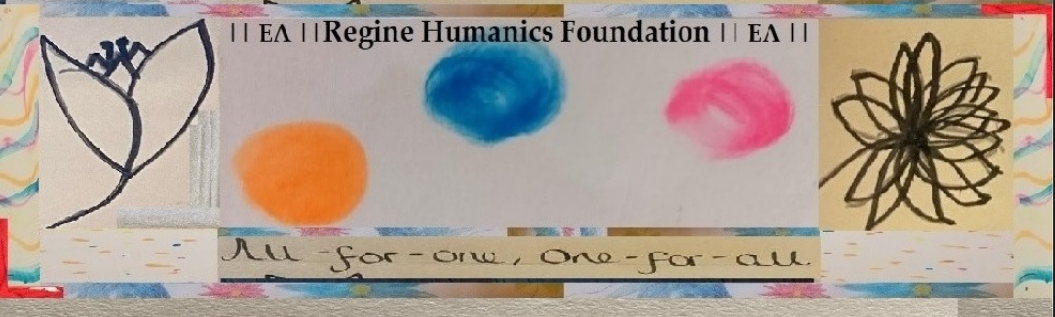
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|| Israel: Palestine: Stop the Slaughter NOW and Strive For Peace in a Two-State Solution For Both the Israelis and Palestinians: Eternal Slaughter Bloodshed Hatred and Destruction Are the Absolute Opposite of Peace: It Is Time For Visionaries Who Have the Vision Courage and Skill to Work For and Build That Peace Together ||



|| Thursday: November 09: 2023 || EA || Imagine, dear Reader, that this Universe, the Mother Universana, is the Mammothcrosom of the seismic dot of this Mother Earth, who is the nanocrosom of that Mammothcrosom, with whom the miniscule super-nano-dot, the Moon, is attached and she is The Mother of Existence and Life on this Temporal Universe, that appears and disappears at the same time eternally. She is no Christian, no Jew, no Muslim, no Buddhist, no Jain, no Rasta, no Deist, no Atheist. No adjective ought to be added before her mighty name for she has already got the highest, infinite name: The Mother. And we begin this Editorial with the Mother of the Editor-In-Chief of this Publication, of this Mother Universana, had told him this story when he was learning to stand and walk, learn and grow: This is the story his great Philosopher of a Mother told him once:

Once upon a time, there was a Young Man. He was one of the poorest of the poor of the rich Kingdom of the Glorious, where the most beautiful, most intelligent and most rich Princess Humana lived in high honour in high riches, whom the whole Kingdom's young men loved and sought to

woe. Among them was this Poor Young Man. Suppose he had name, Mad. So, like every other young men of the Kingdom, Mad was in love with Humana and, unlike the any other of his competitors, he was absolutely mad about her and he lived and died in each of his breath for The Princess.

His mother kept trying to reason with him by saying that he was the poorest of the poor and this fact alone stood on his path as the mightiest of barriers for him to, ever, even, get closer to The Princess, let alone, marrying her and that, therefore, he should forget about her and get on with his poor little life. His Mother's words, you can imagine, dear Reader, had not gone anywhere his awareness and he kept going on madly loving this Princess and tried to reach her.

Eventually, he did manage to get to her and speak to her by some miraculous means and he proposed to her to marry him.

The Princess was annoyed but diplomatic and thought to send him away in a way so that he would never find a way to come back to her again. She told him that she would marry him on the condition that he should get the heart of his Mother as proof that he, really, truly and madly, loved her. And with that she had sent him away. He was terribly happy that the Princess Humana had agreed to marry him. It did not occur to him as to what terrible condition she had attached to that agreement!

He went home happily and did not even think anything of the heart of his Mother. When he was home his Mother asked him about his meeting with the Princess and he told her all about it in terrible excitements. And, finally, he came to the point to say that he had a little predicament standing against him marrying the Princess.

Tell me what it is.. She said.

She wants me to prove that I love her really, truly and madly?

And did she suggest any way by which you can prove that?

She did.

What is it?

He hesitated a little and then answered: She said, I had to take your heart to her.

My heart? And that will prove to her that you loved her really, truly and madly?

Yes.

And you love her that much that you would take my hear to her? And you love her that much: really, truly and madly?

Yes.

And it will make you happy were you to succeed in marrying her?

Yes.

Then the Mother went inside and got herself a large, sharp knife and came outside. She cut her heart out and gave it to her son.

The mad young man then started running to the Royal Palace with his Mother's cut out, still bleeding heart.

As he ran as madly as he possibly could he hit some rock and stumbled over and fell on it and his head split open.

And his Mother's Heart fell out of his hand and landed somewhere nearby. And as he lay bleeding and dying and screaming in agony, he heard his Mother's voice coming to him from her still bleeding Heart: Are you alright My Little Boy!

This Mother, of the Mother Universana, told him: That is Mother's Love, My Child. That same Mother taught him this: Remember, every task has its mechanism: the task, that needs to be done by its mechanism should not be done by force.

Peace is such a task: follow its mechanism and you shall reach peace.

And, now, dear Reader: here now, imagine back, that Mother Earth, the nanocrosm of the Mother Universana, the Mammothcrosm. And hear what she is saying, screaming out today as to the slaughters, that have been going on between Israeli side and the Palestinian side since October 07, 2023! Not counting the-more-than-half-a-century of ever-going hostilities and their casualties!

And, were we to follow the story, what are the hearts of the parents, particularly, mothers, regardless of what side of the borders they are from, are going through, whose babies, whose infants, whose children, have been robbed of life and whose children have been kidnapped and taken away? And, those, whose children have been kidnapped, still can and do keep their hopes alive, their desperate hope alive, that they would not suffer any harm and that they would be returned home safely. But those, whose children have been murdered: they do not, even, have any such hope but an ever-going despair and agony of the ever-going, ever-burning bereavement and suffering!

Were people to go these mothers or the fathers and tell them that they could get their slaughtered children back or their kidnapped heartlings safely back home, were they to be willing to cut their hearts out and give them for their return! Would they find any single mother, any single father, regardless of where on the Mother Earth they are, who would hesitate to cut their hearts out! Would the Israeli Mothers hesitate? Would the Palestinian Mother hesitate? Would you, could you find one single Mother on this Earth, who would hesitate!

It does not matter in the least, who slaughtered, by what means or how, before each set of parents, whose child has been killed, this is the fact before them: their child is dead, is no longer here and nothing can ever bring that child back to life, whose life had been cut short by brutal violence, that is against natural justice. This child is dead and nothing can bring that child back to life. It does not matter whether Israel goes into Gaza strip and kills 100,000 or whether Hamas goes into Israel and does the same. Nothing shall ever be able to get a single dead, murdered child or murdered human being, back to life: not in Israel, not in Gaza, not anywhere. And this is an 'infinite punishment' to the parents, who have got their loved ones slaughtered or kidnapped by brutal forces. It does not matter who has done the slaughter or how.

This statement ought to focus humanity to see the pseudo-reasoning the parties follow: whether it is Israel or Hamas or any other party. That once a breach of natural justice occurs it produces the opposite of peace, opposite of reason. And this breach can not ever be restored unless natural justice is restored: natural justice is for a child to be born and it is loved, cared for, protected and kept safe and enabled, fostered and nurtured to become and grow into being a human being and she:he should live inside the rule of law and in natural justice and that she:he should come to die as naturally as she:he was born. You break that and you break natural justice and there is no short cut to going back to natural justice but to get back to 'undoing', what caused the breach so that 'the connection' to natural justice is 'restored'.

Israel and the Palestinians both have broken away from natural justice from the beginning and they have been fighting and killing and slaughtering 'the others' for over more than half a century; have they not learnt anything over the last more than half a century that they could not seek and achieve peace through violence, through conflicts, through wars and through hatred?

Israel has not been able to succeed in getting security, safety, well-being and peace for itself and for its citizens in that time, regardless of how many wars it had fought, how many countless Palestinians and others it had killed. Like them the Palestinians had failed equally to get to a State of Palestine through these violent routes of perpetual wars, conflicts and ever-going hatred and regardless of how many countless Israelis they had killed.

If, the righteous of the world, imagine a field, divided by a flaming fire and on each side of that fire line are placed all the dead in these ever-going wars and conflicts between the Israelis and the Palestinians: the Israelis on one side: and the Palestinians on the other side, one can see an utter, absolute and despairing demonstration of unrighteousness, that had produced this harrowing scene of countless death and destruction, produced by hatred, violence and brutality and the abandonment of reason. Those leaders on all sides, who keep repeating the same tauntology: that keep giving the same pseudo-reason: we did it because they had done it and the same from the

other side: we did it because they had done it! But this 'it' is killing human beings and 'they' is the human being as plurality! What kind of reasoning is this that says: killing human beings is something a human being must do because others have done it! And now look at this Killing Field and visualise the dead and that flaming fire, that rages away as more corpses are added on both sides and as the world finds it fit to take sides and throw petrol on the raging fire of hatred. Israel was burning through the brutal slaughters and kidnapping of hundreds of the innocents and now it is burning Gaza and the Palestinians in rage of revenge and slaughter and the world is taking sides and all people can hear is nothing but regurgitating taughtologies and pseudo-reasoning! Are the Israelis not humanity? Are the Palestinians not humanity? Why should they keep on killing each other? Have the world and world humanity have gone insane, that they have no reason left in them, who would stand up and demand the end of slaughter and beginning of a mechanism, to lead these two ever-going enemies to stop and take a breath and get onto a long but absolutely sure path towards peace, towards natural justice?

This is an absolutely established fact: the Israelis and the Palestinians both have failed absolutely to show the world that they have succeeded in achieving peace, safety and security over more than half a century. Were these two sides to behave like scientists at laboratories across the earth, they would absolutely see the clear, transparent and self-evident presence of The Endless Body of Evidence against hatred, wars, conflicts and slaughter and decide that the evidence establishes this Law that abandoning hatred, conflicts, wars and hostility is the path to peace. If, they do not do that, that means this: that they are ignoring the evidence because they are following pseudo-reasoning: which does not accept evidence, does not accept reason because it has fallen onto and become victim of the grasp of the illusion of might. The distance between may and might is the difference between righteousness and monstrosity.

Therefore: we invite the world to stop taking sides and stop putting petrol to the fire of these wars, conflicts, hatred, violence and hostility between these ever-warring parties: and give them a choice: we can not stop you fighting and slaughtering each other but we can tell you this: you keep at this and you keep at the eternal path of eternal slaughter and destruction of both you parties: except, you shall not ever achieve peace till the end of time. Because no one can make $02+02=10$, till the end of time! And the world, the world humanity ought to stand on this side away, away from both Israel and the Palestinians, with this invite to the both sides: to come over: towards peace. We are not with either of you but here: in peace with natural justice. You abandon pseudo-reasoning and choose the path of peace and move over to here with us. This means the world must, at the same time, stop adding petrol to the fire: stop taking sides.

Even, a little bird house, does not just appear; it must be constructed and it requires resolute, continuous and determined work! Israel must come to the Jerusalem Table of Peace: the Palestinians must come to the Jerusalem Table of Peace and they both must leave their arsenal at their respective

stores and bring a Jerusalem Rose of Choice, a rose of choice, commitment and resolute determination to peace, to natural justice. What these both parties are doing are wrong and what the world, divided into opposing camps, supporting one side and opposing the other side, is, even, more wrong. No one can seek peace and natural justice by unrighteous means. Whoever is using might to get to righteousness is already lost to begin with and they shall never reach home to righteousness. Peace is the garden of righteousness because it blooms through the circuit of reason.

One always must seek peace and natural justice without blood on their hands. The wronged must not wrong to correct the wrong because by committing wrong one moves farther away from the right path to reach righteousness: they must seek that path, that enables them to undo the wrong done so that one gets to the point where no wrong occurred or would occur. That is the path to peace, to natural justice. Reason is that path: might, violence and hatred are the absolute opposite of that path.

And they must commit to 'build their own tree house of peace' together: by resolute, continuous and determined and ever-going work and in the process, they must, both and together, create a mechanism of Restoration of Natural Justice by Truth, Reconciliation and Psychological Cleansing of Their National Psyche: off the hatred, off the loathing, off the slaughter and of the destruction and Learn to Never to Forget and Ever to Forgive and there they build a new Tree House of Peace for both the Israelis and the Palestinians: A State of Israel: established, accepted, safe and secure and respected and a State of Palestine: established, accepted, safe, secure and respected: as, if, two sets of neighbouring humanionhoods joined hands together to build a house for each: for both and that is the path to natural justice or peace.

Until this is done: the entire forces of all fragments of the Palestinian people and all the forces of the world united together with them can not EVER destroy the State of Israel by their might and until this is done, the entire State of Israel and the whole world's forces uniting behind it can NEVER destroy the Palestinian people but they shall FOREVER be killing each other for perpetuity and SHALL NEVER reach peace.

But "Blessed are the peace-makers." Therefore, we call on Israel and all across the Palestinian voices and the world: Israel: Palestine: World Humanity: Stop Fighting and Killing: Stop Following Pseudo-Reasoning: No Power Had Ever Been Able to Enforce Peace Since the Dawn of Time Because Peace Is the Outcome of Righteousness of Reason: Stop the Slaughter NOW and Strive for Peace For Blessed Are the Peace-Makers.



You Build Peace Like This: Piece by Piece: Brick by Brick: Note by Note: One and Then Two and Then Three: You Keep at It: Work Like The Peres Centre for Peace and Innovaion: Peace is Possible: Create It: Keep at It: Keep at It: www.peres-center.org



Caption: This composite image has been created from the Peres Centre for Peace, that works with both the Israelis and the Palestinians to bring two peoples together for peace: peres-center.org || EA ||

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|| Astrophysics || NASA's Bennu Asteroid Sample Contains Carbon and Water: And Water Contains the Duo-Jewels of Life: Oxygen and Hydrogen: Already A School of Life ||



|| Thursday: November 09: 2023 || EA || Initial studies of the 04.5-billion-year-old asteroid Bennu sample, collected in space and brought to Earth by NASA show evidence of high-carbon content and water, which together could indicate the building blocks of life on Earth may be found in the rock. NASA made the news Wednesday from its Johnson Space Centre in Houston where leadership and scientists showed off the asteroid material for the first time since it landed in September.

This finding was part of a preliminary assessment of NASA's Origins, Spectral Interpretation, Resource Identification and Security: Regolith Explorer: OSIRIS-Rex, science team. "The OSIRIS-Rex sample is the biggest carbon-rich asteroid sample ever delivered to Earth and will help scientists investigate the origins of life on our own planet for generations to come." Said NASA Administrator Bill Nelson. "Almost, everything we do at NASA, seeks to answer questions about who we are and where we come from.

NASA missions like OSIRIS-REx will improve our understanding of asteroids, that could threaten Earth while giving us a glimpse into what lies beyond. The sample has made it back to Earth but, there is still so much science to come, science like we've never seen before."

Although, more work is needed to understand the nature of the carbon compounds found, the initial discovery bodes well for future analyses of the asteroid sample. The secrets held within the rocks and dust from the asteroid will be studied for decades to come, offering insights into how our solar system was formed, how the precursor materials to life may have been seeded on Earth and what precautions need to be taken to avoid asteroid collisions with our home planet.

The goal of the OSIRIS-REx sample collection was 60 grams of asteroid material. Curation experts at NASA Johnson, working in new clean rooms built, especially, for the mission, have spent 10 days so far carefully disassembling the sample return hardware to obtain a glimpse at the bulk sample within. When the science canister lid was first opened, scientists discovered bonus asteroid material covering the outside of the collector head, canister lid and base. There was so much extra material it slowed down the careful process of collecting and containing the primary sample.

"Our labs were ready for whatever Bennu had in store for us." Said Vanessa Wyche, the Director, NASA Johnson. "We've had scientists and engineers working side-by-side for years to develop specialised glove-boxes and tools to keep the asteroid material pristine and to curate the samples so researchers now and decades from now, can study this precious gift from the cosmos."

Within the first two weeks, scientists performed quick-look analyses of that initial material, collecting images from a scanning electron microscope, infrared measurements, X-ray diffraction and chemical element analysis. X-ray computed tomography was, also, used to produce a three-D computer model of one of the particles, highlighting its diverse interior. This early glimpse provided the evidence of abundant carbon and water in the sample.

"As we peer into the ancient secrets preserved within the dust and rocks of asteroid Bennu, we are unlocking a time capsule, that offers us profound insights into the origins of our solar system." Said Dante Lauretta, OSIRIS-REx Principal Investigator, the University of Arizona, Tucson. "The bounty of carbon-rich material and the abundant presence of water-bearing clay minerals are just the tip of the cosmic iceberg. These discoveries, made possible through years of dedicated collaboration and cutting-edge science, propel us on a journey to understand not only our celestial neighbourhood but, also, the potential for life's beginnings. With each revelation from Bennu, we draw closer to unravelling the mysteries of our cosmic heritage."

For the next two years, the mission's science team will continue characterising the samples and conduct the analysis needed to meet the mission's science goals. NASA will preserve, at least, 70% of the sample at Johnson for further research by scientists worldwide, including future generations of scientists. As part of OSIRIS-REx's science programme, a cohort of more than 200 scientists around the world will explore the regolith's properties, including researchers from many US institutions, NASA partners Japan Aerospace Exploration Agency(JAXA), Canadian Space Agency:CSA and other scientists from around the world. Additional samples will, also, be loaned later this fall to the Smithsonian Institution, Space Centre Houston and the University of Arizona for public display.

NASA's Goddard Space Flight Centre in Greenbelt, Maryland, provides overall mission management, systems engineering and the safety and mission assurance for OSIRIS-REx. Lauretta, the Principal Investigator, leads the science team and the mission's science observation planning and data processing. Lockheed Martin Space in Littleton, Colorado, built the spacecraft, provided flight operations and was responsible for capsule recovery. Goddard and KinetX Aerospace were responsible for navigating the OSIRIS-REx spacecraft. Curation for OSIRIS-REx, including processing the sample when it arrived on Earth, is taking place at NASA Johnson.

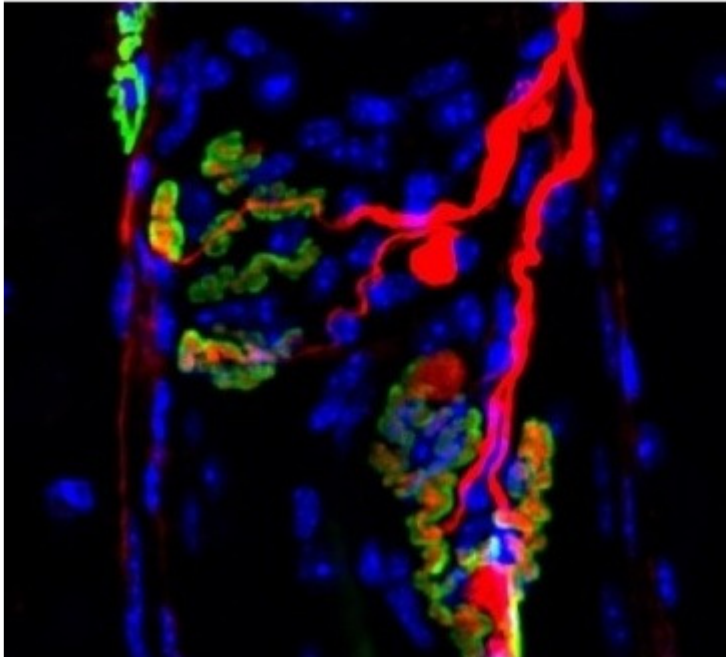
Find more information about NASA's OSIRIS-REx mission at: <https://www.nasa.gov/osiris-rex>

Caption: A view of the outside of the OSIRIS-REx sample collector. Sample material from asteroid Bennu can be seen on the middle right. Scientists have found evidence of both carbon and water in initial analysis of this material. The bulk of the sample is located inside: Image: NASA:Erika Blumenfeld and Joseph Aebbersold || EA ||

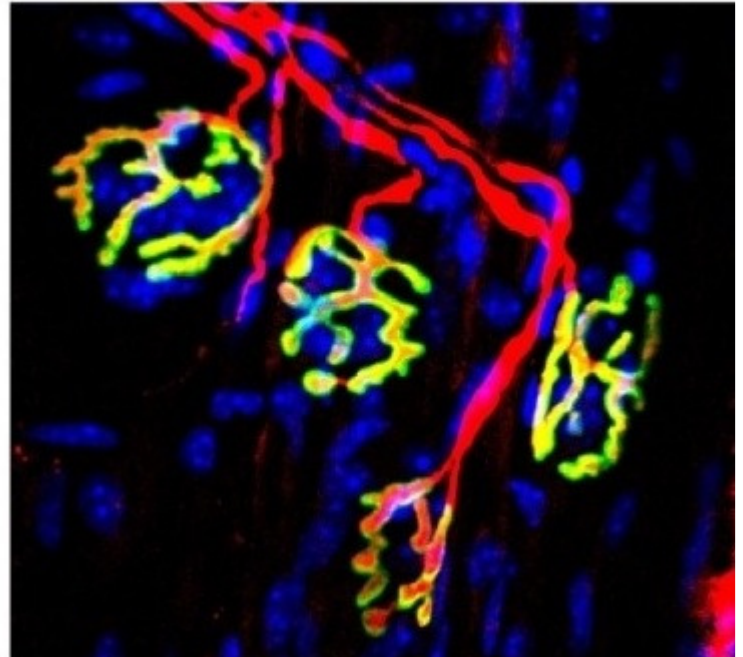
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|| Neurology || Restoring Nerve-Muscle Connections Boosts Strength of Aging Mice: New Study Finds ||

Aged



Aged treated



|| Thursday: November 09: 2023 || EA || A small molecule, previously shown to enhance strength in injured or old laboratory mice does so by restoring lost connections between nerves and muscle fibres. The molecule blocks the activity of an aging-associated enzyme or gerozyme, called, 15-PGDH, that naturally increases in muscles as they age. The Study showed that levels of the gerozyme increase in muscles after nerve damage and that it is prevalent in muscle fibres of people with neuro-muscular diseases.

The research is the first to show that damaged motor neurons, nerves, connecting the spinal cord to muscles, can be induced to regenerate in response to a drug treatment and that lost strength and muscle mass can be, at least, partially, regained. It suggests that, if, similar results are seen in humans, the drug may one day be used to prevent muscle loss or muscle strength due to aging or disease or to hasten recovery from injury.

It's estimated that sarcopenia or debilitating muscle frailty, affects about 30% of people over 80 and costs the United States around \$380 billion each year. "There is an urgent, unmet need for drug treatments, that can increase muscle strength due to aging, injury or disease." Said Professor Helen Blau, PhD, of Microbiology and Immunology.

"This is the first time a drug treatment has been shown to affect both muscle fibres and the motor neurons, that stimulate them to contract in order to speed healing and restore strength and muscle mass. It's unique."

Professor Blau, the Donald E and Delia B Baxter Foundation Professor and the Director of the Baxter Laboratory for Stem Cell Biology, is the Senior Author of the Study, which was published online in Science Translational Medicine. Post-doctoral scholar Dr Mohsen Bakooshli, PhD and former post-doctoral scholar Dr Yu Xin Wang, PhD, are the Lead Authors of the Study. Dr Wang is now an Assistant Professor at the Sanford Burnham Prebys Medical Discovery Institute in San Diego.

The finding is the latest from the Professor Blau laboratory, focused on understanding how muscles weaken from aging or disease and whether it's possible to combat this decline. In 2021, the Group showed that blocking the activity of 15-PGDH in 24-month-old laboratory mice, significantly, enhances the animals' leg strength and endurance when running on a treadmill. Laboratory mice, typically, live about 26 to 30 months. But it wasn't clear exactly how.

The new research shows that the effect is due to the restoration of lost connections between the nerves and the muscle. These neuro-muscular connections junctions, are how the brain signals muscles to contract, allowing us to pick up a water glass, jog to the mailbox or hoist a toddler into a car seat. As we age, some of these connections are lost, causing muscle contractions to become less powerful and muscles to atrophy. People, typically, lose muscle mass and strength as much as 10% per decade after the age of 50.

Conditions other than aging can, also, destabilise these connections, including the disuse of muscles due to bedrest after illness or injury or muscle-wasting diseases like spinal muscular atrophy or amyotrophic lateral sclerosis, also, known as ALS.

Professor Blau's previous research showed that a molecule, called, PGE2, is critical to the function of stem cells in muscle fibres, that repair damage, including the micro-tears from exercise, that lead to an increase in muscle mass and strength. They, subsequently, showed that levels of 15-PGDH, which breaks down PGE2, increase in the muscles with age and that the loss of strength with aging could be overcome by inhibiting the activity of this PGE2-degrading enzyme.

"PGE2 is part of the body's natural healing mechanism and its levels increase in muscle after injury." Professor Blau said. "We wanted to learn how age triggers an increase in 15-PGDH and, therefore, the degradation and loss of PGE2."

The researchers knew that muscles became less innervated or infiltrated with nerves, as people and animals age. They wondered, if, that loss could be what triggers the rising levels of 15-PGDH. "We found that when you cut the nerve, that innervates the leg muscles of mice, the amount of 15-PGDH in the muscle increases rapidly and dramatically." Professor Blau said.

“This was an exciting new insight. But what surprised us most was that when these mice are treated with a drug, that inhibits 15-PGDH activity, the nerve grows back and makes contact with the muscle more quickly than in control animals and that this leads to a faster recovery of strength and function.”

Additional experiments showed that treatment with the drug restored neuro-muscular junctions, lost during aging and increased muscle strength and function in old laboratory mice. The researchers, also, identified discrete clumps of 15-PGDH in the muscle fibres of people with several types of neuro-muscular disorders, suggesting that the gerozyme may have a role in causing these human disorders.

Professor Blau and her colleagues plan to investigate at a molecular level how neural growth is stimulated by blocking 15-PGDH activity. She has, also, co-founded a Company, Epirium Bio, to develop similar drugs for use in humans. Although, her lab is still conducting animal studies, the Company hopes to launch a clinical trial within the next year or so.

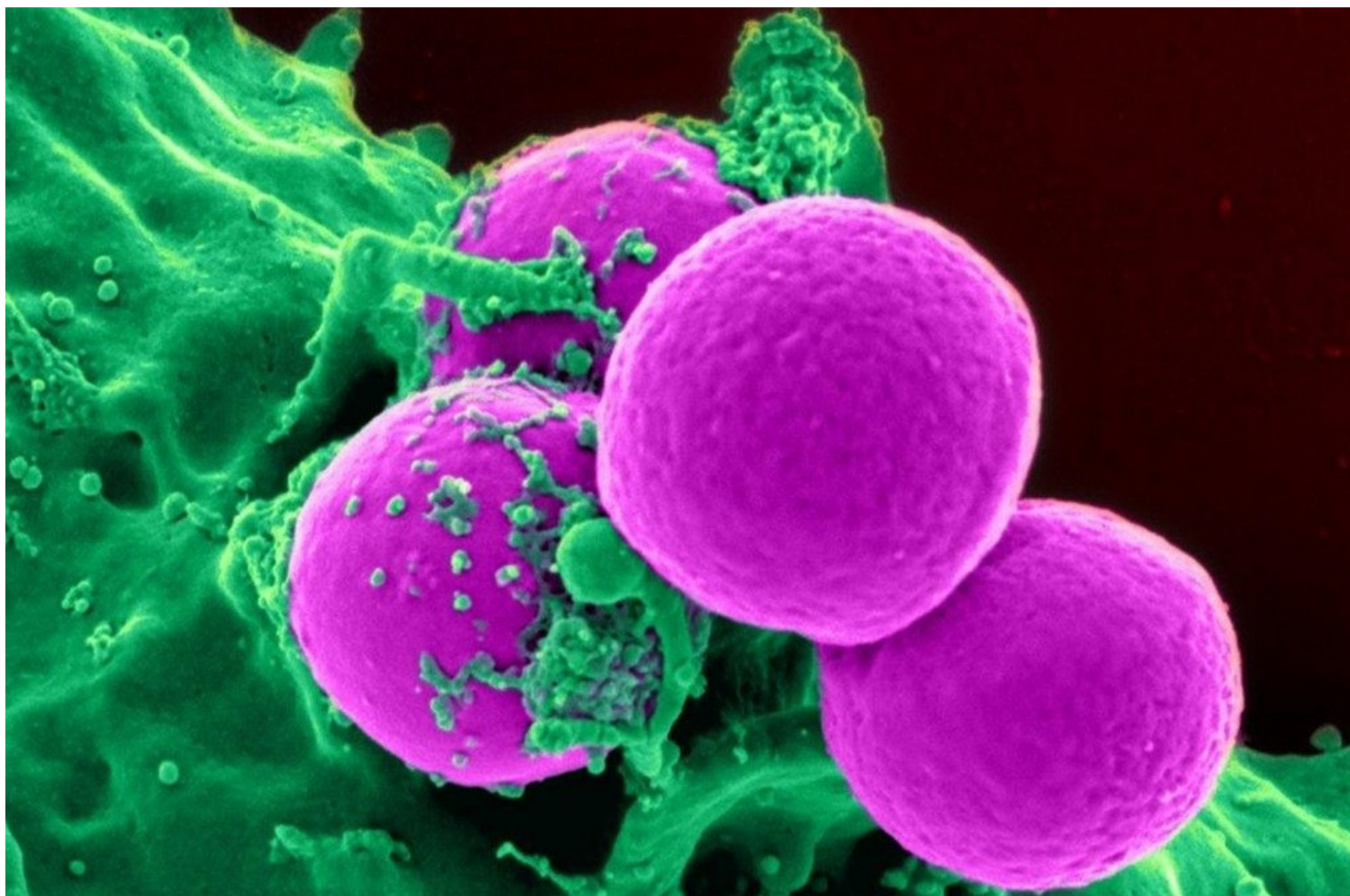
“Our next steps will be to examine whether blocking 15-PGDH function in people with spinal muscular atrophy can increase lost muscle strength in combination with gene therapy or other treatments.” She said. “We are, also, looking at ALS to see, if, something like this might help these patients. It’s really exciting that we are able to affect both muscle function and motor neuron growth.”

Professor Blau is an inventor on several patents, related to the research and a co-founder, consultant and equity holder of Epirium Bio, which has licensed patents, regarding 15-PGDH inhibition to improve muscle strength.

Caption: Neuro-muscular junctions become misshapen and dysfunctional as mice age. The connections between a motor neuron in red and pretzel-like receptor clusters in yellow-green on the muscle are more robust in old mice treated with an inhibitor of the gerozyme, 15-PGDH on the right panel, than in control mice on the left panel. Contact by the nerve is essential for muscle contraction; this contact can, also, be lost due to trauma, disuse and muscle wasting disorders:
Image: Professor Blau’s Lab: Stanford Medicine || EA ||

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|| Cancer Biology || New Research Discovers Mechanism That Could Pave the Way for Future Treatments of Infectious Disease and Cancer ||



|| Thursday: November 09: 2023 || EA || Researchers have identified a ‘guard mechanism’ for a protein, that attacks microbes in infected cells, opening the possibility of new treatments for Toxoplasma, Chlamydia, Tuberculosis and, even, cancer. This new Study has discovered the lock and key mechanism, that controls the attack protein GBP1. GBP1 is activated during inflammation and has the potential to attack membranes within cells and destroy them.

The research has shown how the attack protein is controlled through the process of phosphorylation in which a phosphate group is added to a protein by the protein kinases. The kinase PIM1 targets GBP1 and can, also, become activated during inflammation. Phosphorylated GBP1, in turn, is bound to a scaffold protein, which keeps uninfected bystander cells safe from uncontrolled GBP1 membrane attack and cell death.

The newly discovered mechanism prevents GBP1 from attacking cell membranes indiscriminately, creating a guard mechanism, that is sensitive to disruption by the actions of pathogens inside the cells. The new discovery was made by Daniel Fisch, a former PhD student in the Frickel lab working

on the Study. The Study was led by the University of Birmingham and has been published this month in Science.

Dr Daniel Fisch said, “This was a fantastic project to work on for the past six years and involved many research groups from all over the world. None of this would have been possible without help from our colleagues and friends at The Francis Crick Institute in London, EMBL in Grenoble, France, ETH Zurich, Switzerland and Osaka University, Japan.”

Dr Eva Frickel, a Senior Wellcome Trust Fellow at the University of Birmingham, who led the Study, said, “This discovery is significant for several reasons. Firstly, guard mechanisms, such as, the one, that controls GBP1 were known to exist in plant biology but, less so in mammals. Think of it as a lock and key system. GBP1 wants to go out and attack cellular membranes but, PIM1 is the key, meaning GBP1 is locked safely away.

The second reason is that this discovery could have multiple therapeutic applications. Now we know how GBP1 is controlled, we can explore ways to switch this function on and off at will, using it to kill pathogens.”

Dr Frickel and her team conducted this initial research on *Toxoplasma gondii*, a single-celled parasite, that is common in cats. Whilst *Toxoplasma* infections in Europe and Western countries are unlikely to cause serious illness, in South American countries it can cause re-occurring eye infections and blindness and is, particularly, dangerous for pregnant women.

The researchers found that *Toxoplasma* blocks inflammatory signalling within cells, preventing PIM1 from being produced, meaning that the ‘lock and key’ system disappears, liberating GBP1 to attack the parasite. Switching PIM1 ‘off’ with an inhibitor or by manipulating the cell’s genome, also, resulted in GBP1 attacking *Toxoplasma* and removing the infected cells.

Dr Frickel said, “This mechanism could, also, work on other pathogens, such as, Chlamydia, Mycobacterium tuberculosis and Staphylococcus, all major disease-causing pathogens, which are increasingly becoming more resistant to antibiotics. By controlling the guard mechanism, we could use the attack protein to eliminate the pathogens in the body. We have already begun looking at this opportunity to see, if, we are able to replicate what we saw in our *Toxoplasma* experiments. We are, also, incredibly excited about how this could be used to kill cancer cells.”

PIM1 is a key molecule in the survival of cancer cells, while GBP1 is activated by the inflammatory effect of cancer. The researchers think that by blocking the interaction between PIM1 and GBP1 they could specifically eliminate cancer cells. Dr Frickel said, “The implication for cancer treatment is huge. We think this guard mechanism is active in cancer cells, so the next step is to explore this and see, if, we can block the guard and selectively eliminate cancer cells. There is an inhibitor on the market, which we used to disrupt PIM1 and GBP1 interaction. So, if, this works, you could use this drug to unlock GBP1 and attack the cancer cells. There is still a very long way to go but, the

discovery of the PIM1 guard mechanism could be a massive first step in finding new ways to treat cancer and increasingly antibiotic-resistant pathogens.” || EA ||

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|| Genetics || Mobile DNA Elements Can Boost the Development of Malignant Tumours ||



|| Thursday: November 09: 2023 || EA || Nearly half of the human genome is composed of transposable elements, which are sequences of DNA, that are able to replicate and relocate in the genome. Previously, transposable elements have been considered ‘junk’ DNA in the human genome.

However, research has shown that the ability to replicate and move has enabled these sequences to develop into new regulatory regions during evolution, particularly, in early stages of development. In their Study, researchers at the University of Helsinki investigated how cancer cells can hijack these mobile elements to boost tumours. The findings have shown new information on the development of cancers.

“We identified specific families of transposable elements, that are active in liver and colon cancers. These elements have binding sites for specific transcription factors, which are proteins, that control gene expression through the regulatory elements. We demonstrated that these specific transposable elements boost gene regulation in a cancer-specific manner.

In other words, different cancer types take over, as it were, the elements for their own regulatory purposes.” Says Konsta Karttunen, the First Author of the Study.

Prior research has already shown that transposable elements play a significant role in gene regulation, for example, during human embryonic development. However, because of their replication in the genome, these elements are difficult to study, since the genome contains several copies of nearly identical elements. Cells, also, actively strive to keep transposable elements silent and non-functional.

“We employed a method, called, massively parallel reporter assay, that can be used to, directly, identify non-coding regulatory regions in the human genome. Previously, this technique has only rarely been used to investigate the regulatory roles of transposable elements, particularly, in the case of cancers.

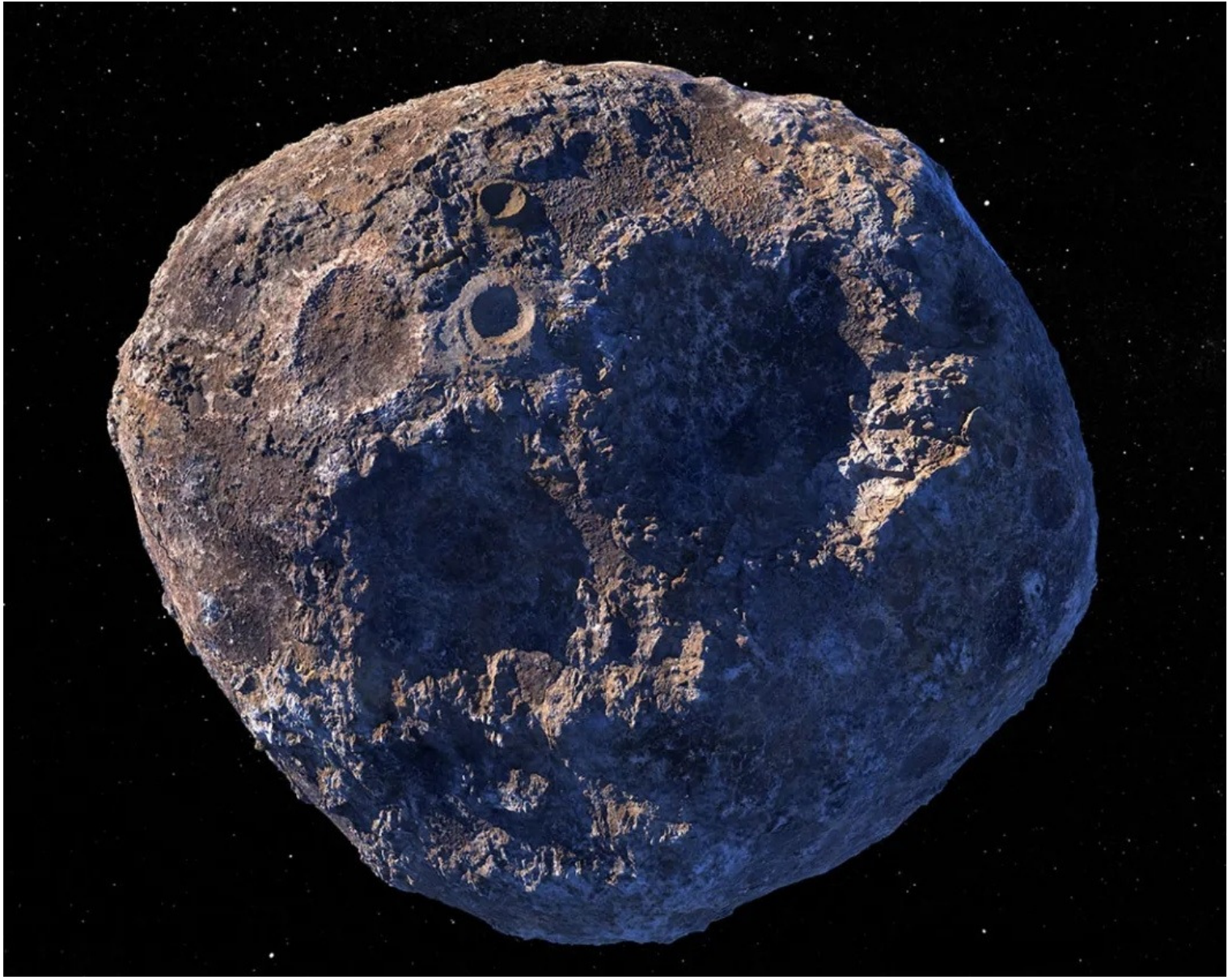
Our research sheds light on regulatory roles more broadly than previously thought.” Says Post-doctoral Researcher Divyesh Patel from the University of Helsinki.

A better understanding of mobile elements can help in developing therapies for various cancers. “The transposable elements, activated in cancers, could be used as markers, that help in diagnosing cancer in its early stages.

Moreover, the cellular immune reaction, brought about by transposable elements can be utilised in immune-therapies for cancer.” Says Academy Research Fellow Biswajyoti Sahu from the University of Helsinki, who leads the research group, that conducted the Study. || EA ||

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|| Astrophysics || At the End of the Six-Year 02.2-Billion-Mile Trip to the Main Asteroid Belt Between Mars and Jupiter: One Earthian Psyche Greets the Celestial One ||



|| Thursday: November 09: 2023 || EA || A SpaceX Falcon Heavy rocket with the Psyche spacecraft on-board is launched from Launch Complex 39A, on Friday, October 13, 2023, at NASA's Kennedy Space Centre in Florida. NASA's Psyche spacecraft will travel to the metal-rich asteroid, its namesake, orbiting the Sun between Mars and Jupiter to study it's composition. By August 2029, the spacecraft will begin to orbit the 173-mile-wide, 279-kilometer, asteroid, the only metal-class asteroid ever to be explored.

For its six-year, 02.2-billion-mile, 03.6-billion-kilometre, trip to the main asteroid belt between Mars and Jupiter, Psyche relies on solar electric propulsion. The efficient propulsion system works by expelling charged atoms or ions, of the neutral gas xenon to create a thrust, that gently propels the

spacecraft. Along the way, the spacecraft will use Mars' gravity as a slingshot to speed it along on its journey. Because of Psyche's high iron-nickel metal content, scientists think it may be the partial core of a planetesimal, a building block of an early planet.

The goal is a 26-month science investigation. NASA's Psyche spacecraft is now on its voyage to an asteroid Psyche, a metal-rich world, that could tell humanity more about the formation of rocky planets. Psyche successfully launched at 10:19 EDT. Integrated onto the spacecraft is the agency's Deep Space Optical Communications technology demonstration, a test of deep space laser communications, that could support future exploration missions by providing more bandwidth to transmit data than traditional radio frequency communications.

"Congratulations to the Psyche team on a successful launch, the first journey to a metal-rich asteroid." Said NASA Administrator Bill Nelson. "The Psyche mission could provide humanity with new information about planet formation while testing technology, that can be used on future NASA missions. As Asteroid Autumn continues, so does NASA's commitment to exploring the unknown and inspiring the world through discovery."

Less than five minutes after liftoff, once the rocket's second stage climbed to a high-enough altitude, the fairings separated from the rocket and returned to Earth. About an hour after launch, the spacecraft separated from the rocket and ground controllers waited to acquire a signal from the spacecraft.

Shortly after, the Psyche spacecraft commanded itself into a planned safe mode, in which it completes only minimal engineering activities while awaiting further commands from mission controllers on Earth. Psyche established two-way communication at 11:50 EDT with NASA's Deep Space Network complex in Canberra, Australia. Initial telemetry reports show the spacecraft is in good health.

"I am excited to see the treasure trove of science Psyche will unlock as NASA's first mission to a metal world." Said Nicola Fox, the Associate Administrator for the Science Mission Directorate at NASA Headquarters in Washington. "By studying asteroid Psyche, we hope to better understand our universe and our place in it, especially, regarding the mysterious and impossible-to-reach metal core of our own home planet, Earth."

"We said 'goodbye' to our spacecraft, the centre of so many work lives for so many years, thousands of people and a decade." Said Lindy Elkins-Tanton, Psyche Principal Investigator at Arizona State University in Tempe. "But it's really not a finish line; it's a starting line for the next marathon. Our spacecraft is off to meet our asteroid and we'll fill another gap in our knowledge and colour in another kind of world in our solar system."

“I’m so proud of the Psyche team, who overcame many challenges on their way to this exciting day.” Said Laurie Leshin, the Director of NASA’s Jet Propulsion Laboratory:JPL in Southern California. “Now the real fun begins as we race toward asteroid Psyche to unlock the secrets of how planets form and evolve.”

The first 100 days of the mission are a commissioning phase, called, the initial checkout period, to make sure all flight systems are healthy. Key to the checkout is ensuring that the electric thrusters are ready to begin continuously firing over long stretches of the trajectory.

Active checkout of the science instruments, the magnetometer, the gamma-ray and neutron spectrometer and the multi-spectral imager, starts about six weeks from now. During this period, the imager will take its first images for calibration purposes, targeting standard stars and a star cluster at a variety of exposures, with several different filters. Then the Psyche team will activate an automatic feed of publicly viewable raw images online for the duration of the mission.

The first opportunity to power on the optical communications technology demonstration is expected in about three weeks, when Psyche would be, roughly, 04.7 million miles, 0r7.5 million kilometres, from Earth. This will be the Agency’s first test beyond the Moon of high-data-rate optical or laser, communications. While the transceiver is hosted by Psyche, the tech demo will not relay Psyche mission data.

“Launching with Psyche is an ideal platform to demonstrate NASA’s optical communications goal to get high-bandwidth data into deep space.” Said Dr Prasun Desai, the Acting Associate Administrator, Space Technology Mission Directorate at NASA Headquarters. “It’s exciting to know that, in a few short weeks, Deep Space Optical Communications will begin sending data back to Earth to test this critical capability for the future of space exploration. The insights we learn will help us advance these innovative new technologies and, ultimately, pursue bolder goals in space.” Arizona State University leads the Psyche mission. A division of Caltech in Pasadena, JPL is responsible for the mission’s overall management, system engineering, integration and test, and mission operations. Maxar Space in Palo Alto, California, provided the high-power solar electric propulsion spacecraft chassis.

JPL manages the Deep Space Optical Communications project for the Technology Demonstration Missions program within STMD and the Space Communications and Navigation Programme within the Space Operations Mission Directorate.

NASA’s Launch Services Programmer, based at Kennedy Space Centre, is responsible for the insight and approval of the launch vehicle and manages the launch service for the Psyche mission. NASA

certified the SpaceX Falcon Heavy rocket for use with the agency's most complex and highest priority missions in early 2023 at the conclusion of a 02.5-year effort.

Psyche is the 14th mission selected as part of NASA's Discovery Programme, managed by the agency's Marshall Space Flight Centre in Huntsville, Alabama.

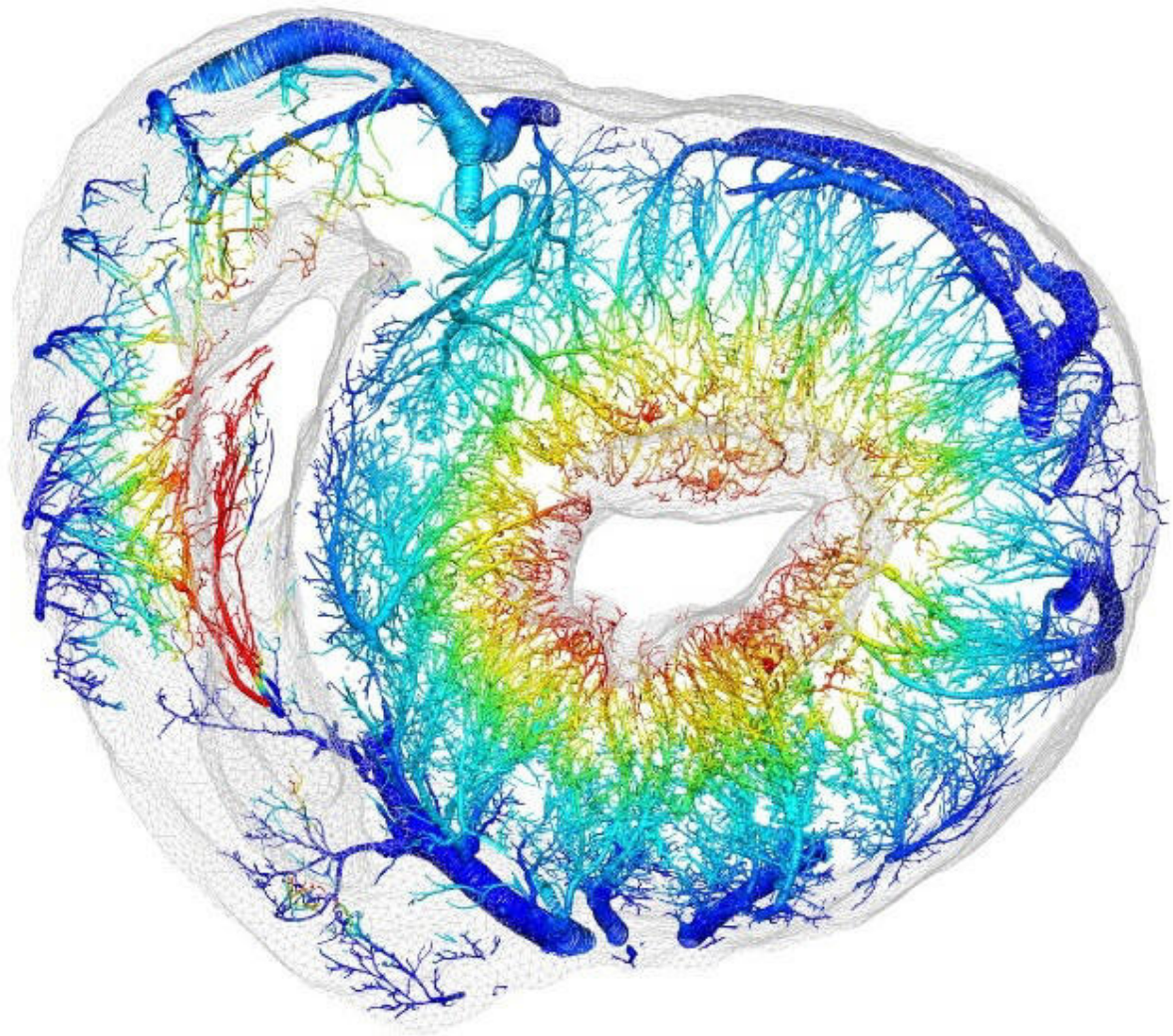
For more information about NASA's Psyche mission go to: <https://www.nasa.gov/psyche>

Caption: An illustration depicting the target of NASA's Psyche mission: the metal-rich asteroid Psyche, in the main asteroid belt between Mars and Jupiter: Image: NASA:JPL-Caltech:ASU || EA ||

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Humanics: All-For-One-One-For-All



|| Selfishness Is the Most Definitive Way to, Absolutely, Harm One's Very Own Self, As Well As, Everyone and Everything Else: In Other Words, Selfishness Is Nothing But Absolute, Complete and Comprehensive Absence of Questioning or Thoughtfulness or Consideration, Which Makes Us Think and That, Thus, Enables Us to Reach the Rational Base and Foundation in Life and in Existence: This Means That Selfishness, Actually, Is a Terminal Enemy of the Agency of the Human Mind, Which It Keeps on Tearing Away and Apart by Being Devoid of Questioning and Thoughtfulness Because the Very Agency of the Human Mind Is a 'Structure', Created by the Architectonics of the Architecture of Human Rationality, Which Requires a Human Agency of the Human Mind to Put It to Use by Thinking, Questioning, Consideration, Analysing, Learning and Developing, All of Which Selfishness Terminates: Humanics: Humanics: All-For-One-One-For-All ||

The Image Caption: The Heart: Shortlisted In The BHF Reflections Of Research Competition 2016: Image: Simone Rivolo

|| Humanics: Humanity Naturale: An Infinity Unfolding Itself ||

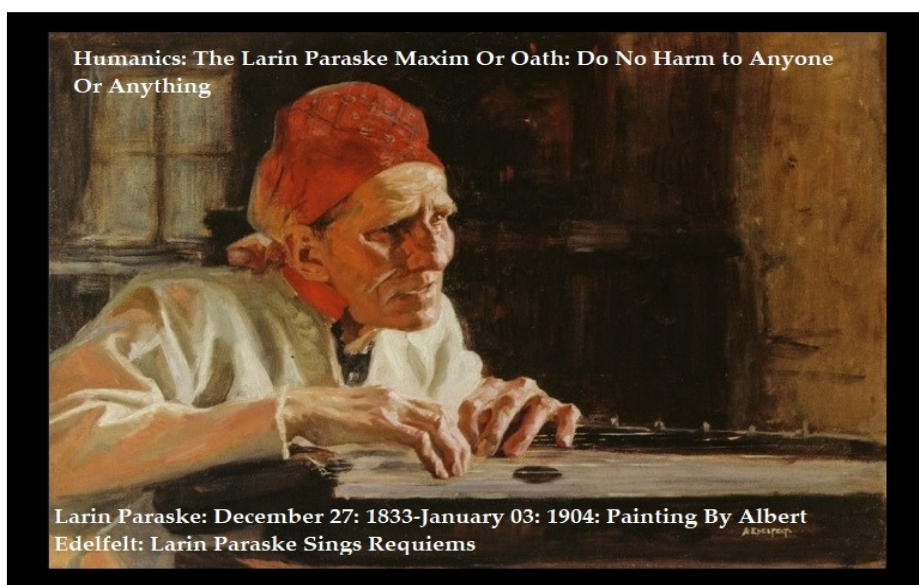


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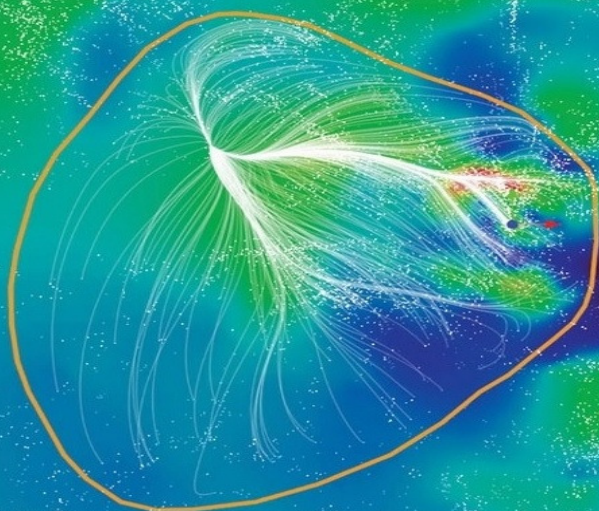
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|| The Larin Paraske Maxim Or Oath: To Do No Harm to Anyone Or Anything ||

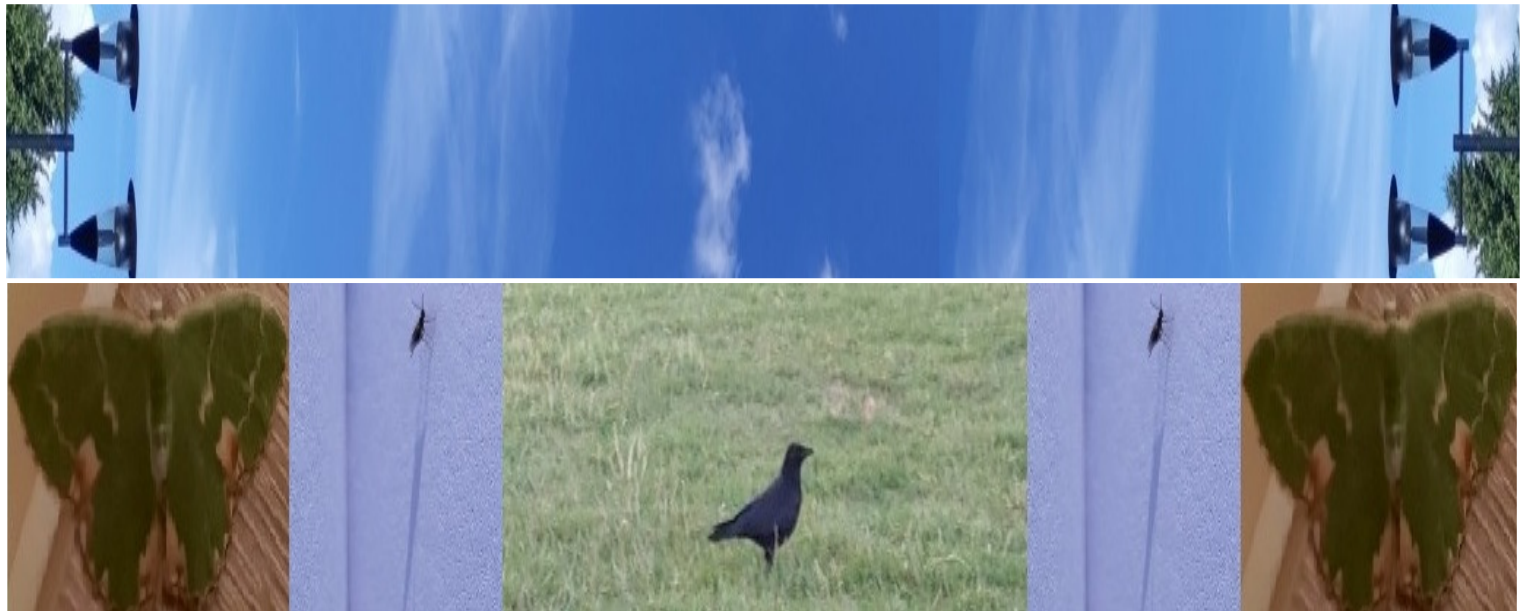
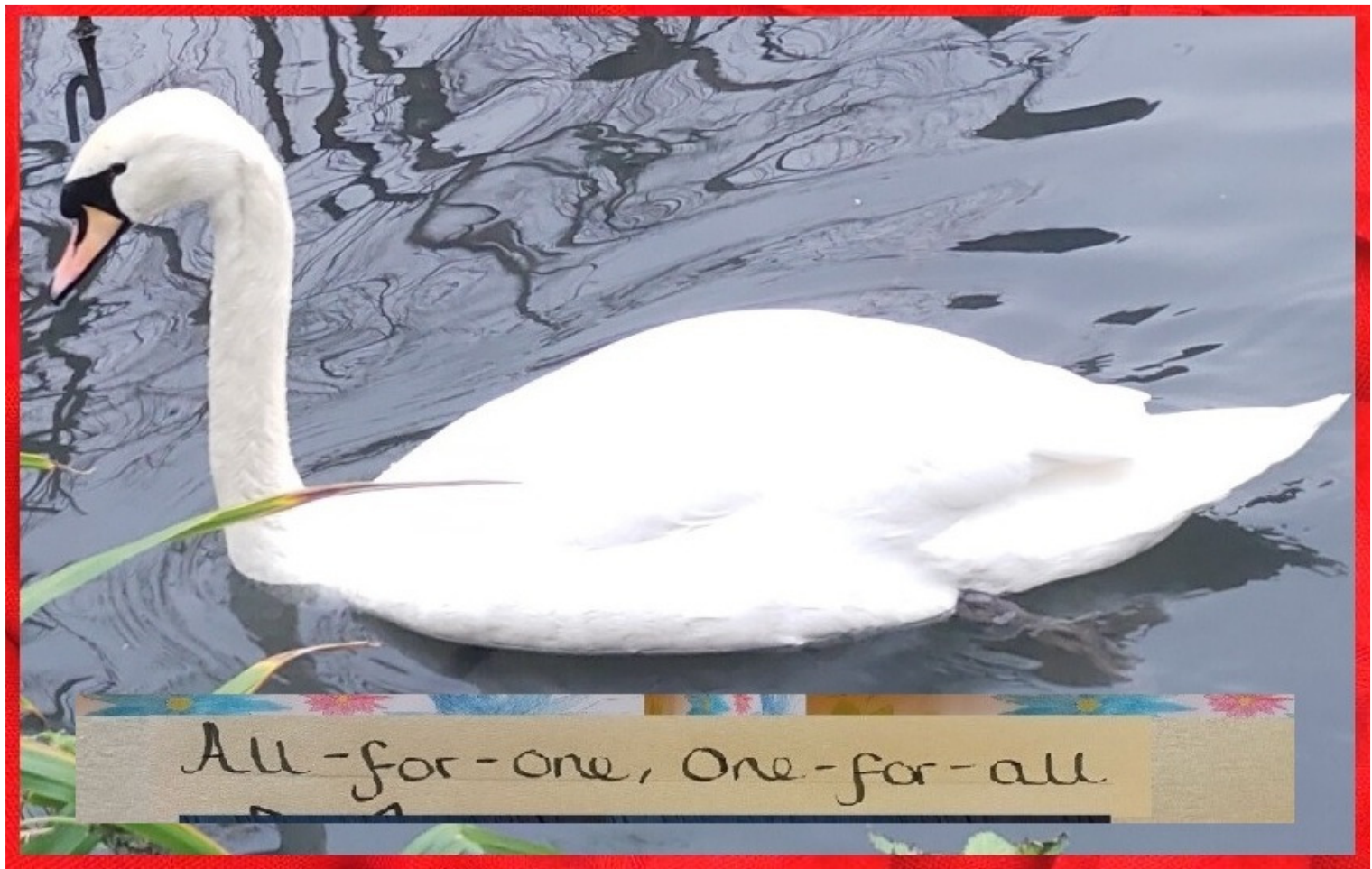


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Laniakea Or The Immense Heaven Supercluster In Which Milky Way Makes Our Nano-Dot Home on Mother Universana: Tuesday: September 19: 2023



Humanicsxian Economics



What Is Humanicsxian Economics

Say: I Carry the Infinities of Making All Beings Happy:

Say: I Commit to Organise the Largest Feast For All Humanity Where Each and Every Human Soul Sit at the Same Table of Liberty and Equality to Eat and Drink From the Bounties of This Mother Earth and of the Human Works and Labours:

Say: I Commit to An Economics That Is Clean Green Circular and Sustainable:

Say: I Commit to an Economics That Does No Harm to Anyone or Anything:

Say: I Commit to Establish an Economics That Is Founded on Moral Science So That Humanity Is Let to Be and Do Nothing But Humanity Nature: Being and Doing an Infinity of Goodness Righteousness and Universal Harmony of Peace Unfolding Itself In By and With Social Morality of Civic Societies

And Further Say: I Commit to Found an Economics That Empowers the Entire Humanion With the Highest Degree of Education Continual and Life-Long Learning Development and Progression: Say: And Sovereignty Shall Be Returned to All Humanity Through the Direct Involvement Engagement and Participation of All Human Individual Beings Through Humanicovics the Public Affairs Management System Run By All Citizens Working Together Without Political Parties: That Is a Human Enterprise in Humanicovics Where Ownership Money and Their Powers and Prowess Have Been Eradicated and Replaced by Belongingship and That is Humanicsxian Economics: And Say: I Commit to Exist In By and With the High-Humanical Maxim: All-For-One and One-For-All: This Is Humanicsxian Economics: This Is Why Regine Humanics Foundation Ltd and Regine Group of Publications Exist to Work and Take Forward The Philosophy Political Philosophy Political Economics and the Vision of Humanics to the Wider World and Wider Humanity For a Better Human Condition For All Humanity Across Mother Earth: One Humanity As One Humanion on One Mother Earth on One Sunnara on One Home Bay Milky Way Galaxy on One Universana: Humanity: We Are One: An Infinity Unfolding Itself: Thursday: June 25: 2020 ||



Image: NASA: NASA has nothing to do with this presentation

Humanicsxian Economics in Two Phases of Humanics

Pre-Humanical Phase: Kapitalawnomics

Pre-Humanical Phase: Kapitalawnomics: Capitalism Is Brought Under the Sovereignty of the People and Re-architected to Serve the People Under the Power and Prowess of the Rule of Law at All Times and Used to Develop Everything Towards Humanical Societies || At This Phase These Shall Become Reality: Right to Universal Natural Air || Right to Universal Natural Environment || Right to Universal Degree-Level Education || Right to Universal Balanced and Nutritional Food and Drink || Right to Universal Employment || Right to Universal Income || Right to Universal Home || Right to Universal Health || Right to Universal Social Care || For All Humanity Across the Earth Equate to Building-Block Foundational Human Rights: And the Entire Humanity Joining Together As All Individuals In a Humanion, Forming the First All-Humanity Sovereignty-Nature Habitat-Body on Earth and on This Universe as the First Ever International and Universal All-Humanity State and Government for the Whole World as One Body With Its Legislature Executive Judiciary Financial-Judiciary Rule of Law Civic Service Compact and Its Own Central Bank and Its Own Currency That Is the New International Currency || This Phase Is Done Through and by Working Humanity Organising As Political Forces and Parties.

Humanical Phase

Human Enterprise: Ownership Money and Their Powers and Prowess Are Eliminated and Replaced by Belongingship Whereby Humanity Reach Liberty and Equality and All Human Economics Endeavours Are Organised and Run Under Human Enterprise and the Whole Public Affairs Management Is Run and Conducted by Humanicsovics Whereby All Individual Humanity Work Together As Organised People Parliaments As Their Own High-Representatives: This Is Humanicsovics || This Is What the World's Working and Non-Working Humanity on Poverty-Wage on Punishment-Social-Security on Destitution-Abandonment-No-Security and the Powerless and Homeless Humanity Must Rise to Fight For and Reject All Plastering Tinker-Works by Any Political Forces: This Is Why It Is Time to Rise As One and Unite and Organise to Begin Again: Where Are the Younger Generations: Because If We Humanity Have Any Future It Is In Your Hands Hearts Minds Souls Eyes and Vision: Believe: Humanity Naturale Is an Infinity Unfolding Itself and In Being and Doing Such Humanity Naturale We All Exist by the High-Humanical Maxim: All-For-One and One-For-All and With This Humanical Societies Appear All Across the Earth and They All Form a Grid of a Humanical Civilisation, Led and Run by All Humanity Working Together at the Highest of All Bodies: The International and Universal State and Government of the Entire Humanion ||

What Are Building-Block Foundational Human Rights



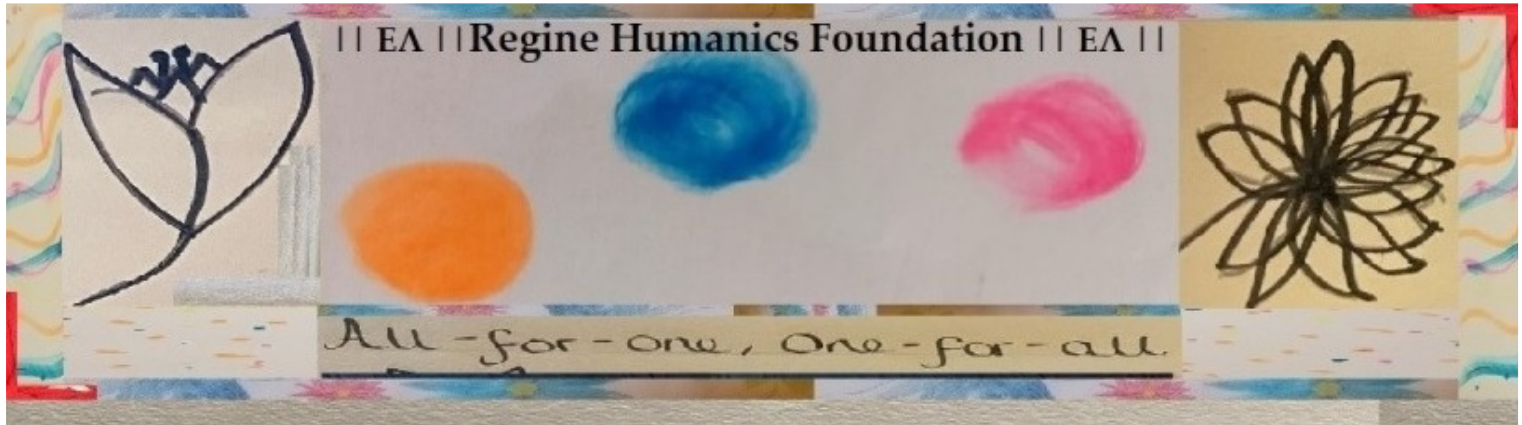
Ask Your Political Leaders About Building-Block Foundational Human Rights and Ask Them About Humanics

The Building-Block Foundational Human Rights

- A: Absolute Right to Live in Clean, Healthy, Safe and Natural Environment
- B: Absolute Right to Breathe Natural, Fresh, Clean and Safe Air
- C: Absolute Right to Necessary Nutritional Balanced Food and Drink
- D: Absolute Right to Free Medical Care at the Point of Need
- E: Absolute Right to an Absolute Home
- F: Absolute Right to Free Degree-Level Education and Life Long Learning
- G: Absolute Right to Guaranteed Social Care
- H: Absolute Right to a Universal Income
- I: Absolute Right to a Job
- J: Absolute Right to Dignified Civic and Human Funeral Paid Through by Universal Income

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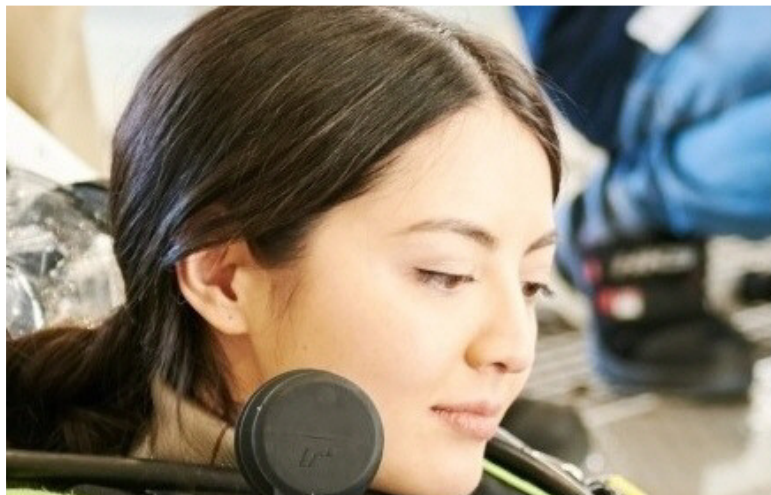
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O Earthians: Do You Not Ever Forget
Me When You Visit Ellearth or Maarth:
Remember That I Orbited Mother Earth
First: November 03: 1957





The Sunnara

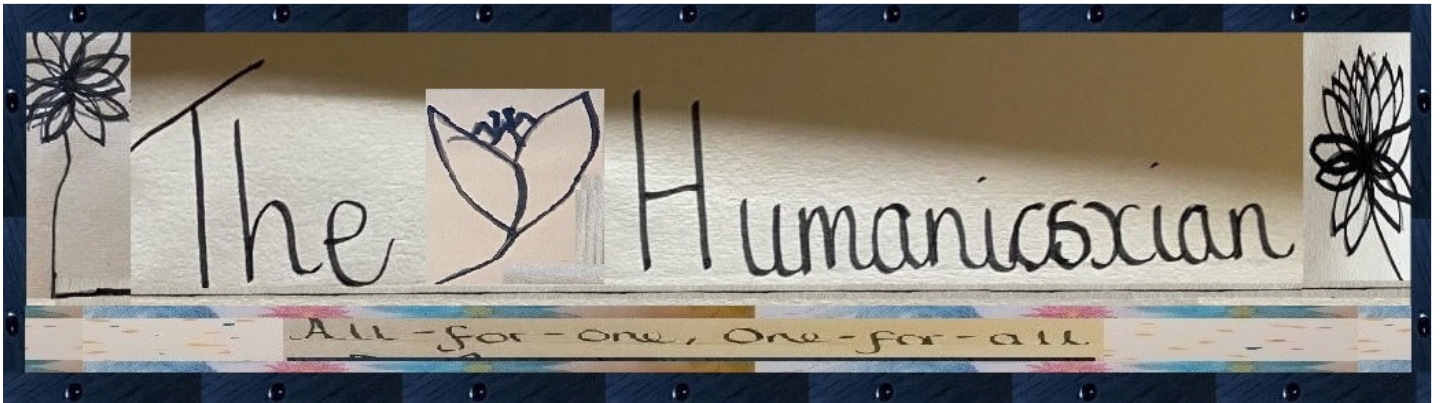
In this realm of wonder awe and invisible multitudes
In this realm of unfoldings of many a range of seasons
Of many a range of times and of seasons for on each
Location on earth on mars on moon on rheia or venus

It is a different time a different season a different pull
In the magnificent silence that sings the particles of an
Infinite Symphony as if an eternal phoenix invisibly
Flying with infinite wings stretching and striving on





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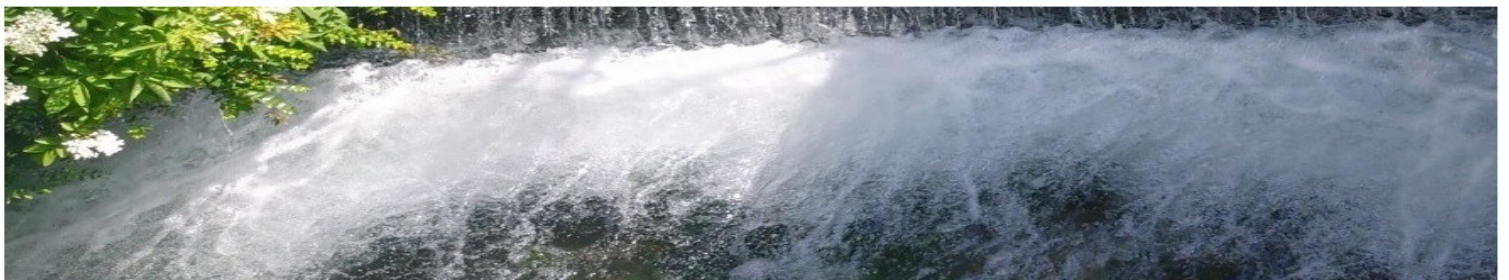
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