

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

The Elleesium: England: UK: Year Ninth: Day 18: Wednesday: October 11: 2023: Cogito Ergo Sum: Descartes

|| Immunology || Streptococcus Pyogenes Molecule Illuminates Cancer Immune Therapies ||



|| Tuesday: October 10: 2023 || á. Researchers at Harvard Medical School have discovered that a molecule, made by Streptococcus pyogenes, the bacterium, that causes strep throat and other infections, could help explain several long-standing medical mysteries: Why strep sometimes leads to serious immune complications, including rheumatic fever. How the immune system's recognition of the molecule may contribute to diseases like lupus.

Or why one of the first cancer immunotherapies showed promise more than 100 years ago. How current immune therapies for cancer could be more effective. The findings contradict a long-standing belief that the immune system ignores this bacterial molecule and could propel efforts to tame or activate the immune system to treat a range of diseases. The research team, led by the lab of HMS biochemist Jon Clardy, published its findings in the Journal of the American Chemical Society.

“We were very surprised by the results but, the data were compelling.” Said Clardy, the Christopher T Walsh PhD Professor of Biological Chemistry and Molecular Pharmacology in the Blavatnik Institute at HMS. A surgeon, named, Friedrich Fehleisen discovered in 1883 that *S pyogenes* caused a rash known to spread across the skin of some people whose cancers then inexplicably disappeared.

Another surgeon, William Coley, then, showed that infecting otherwise untreatable cancer patients with *S pyogenes* or other bacterial strains, dubbed, ‘Coley’s toxins’, sometimes cured their disease. But many of his peers didn’t believe the results and his methods soon fell out of favour as radiation and chemotherapy hit the stage. Coley’s reputation was restored with the advent of modern cancer immunotherapies, that harness the immune system to vanquish tumours but, until now no one had figured out what made his original treatments work.

Professor Clardy and his colleagues at HMS homed in on an answer, using an immune activation test. The test identifies bacterial molecules, that stimulate an immune response in cell cultures, derived from mouse bone marrow. Only one molecule in *S pyogenes* did the trick: an unassuming fatty molecule, known as, cardiolipin, in the cell membrane. The researchers named it SpCL-1, for the first *S. pyogenes* cardiolipin.

This is the first time, researchers have implicated a bacterial cardiolipin in human immune responses. “The conventional wisdom is that simple membrane lipids like the bacterial cardiolipins in this paper are not immunogenic.” Said Professor Clardy. “This result upends that belief.”

Humanin cell membranes contain cardiolipins as well. In some auto-immune diseases and rheumatic fever, the body, for unclear reasons, makes antibodies, that attack these molecules. The new Study provides evidence that such diseases can get kickstarted when the immune system reacts to cardiolipins in invading bacteria. After fighting off the bacteria, the primed antibodies can, then, turn on the person’s own cardiolipins.

“Our work provides an answer to the mystery of why, in some of these poorly understood auto-immune diseases, the body develops an immune response to self-antigens; why it attacks itself.” Professor Clardy said.

The insights could help researchers in their efforts to prevent these and related auto-immune disorders. On the flip side, the work offers insights into how bacterial molecules can help scientists harness the immune system to treat disease. The researchers found that two receptors on the surface

of many immune cells, known as, toll-like receptors, lock onto S pyogenes cardiolipins. The cells, then, recognise the bacteria as invaders and call out for release of an inflammatory molecule, known as, tumour necrosis factor:TNF alpha.

The cardiolipin, therefore, could provide an additional strategy to stimulate an immune response to fight cancer. Such a strategy would join other efforts, that build on the discovery that some patients' cancers trick immune cells into not secreting TNF alpha and other molecules, that ought to kill them. Whether the cardiolipin SpCL-1 itself could become or inspire a successful new cancer immunotherapy remains to be seen, although, Coley's toxins provide a promising foundation.

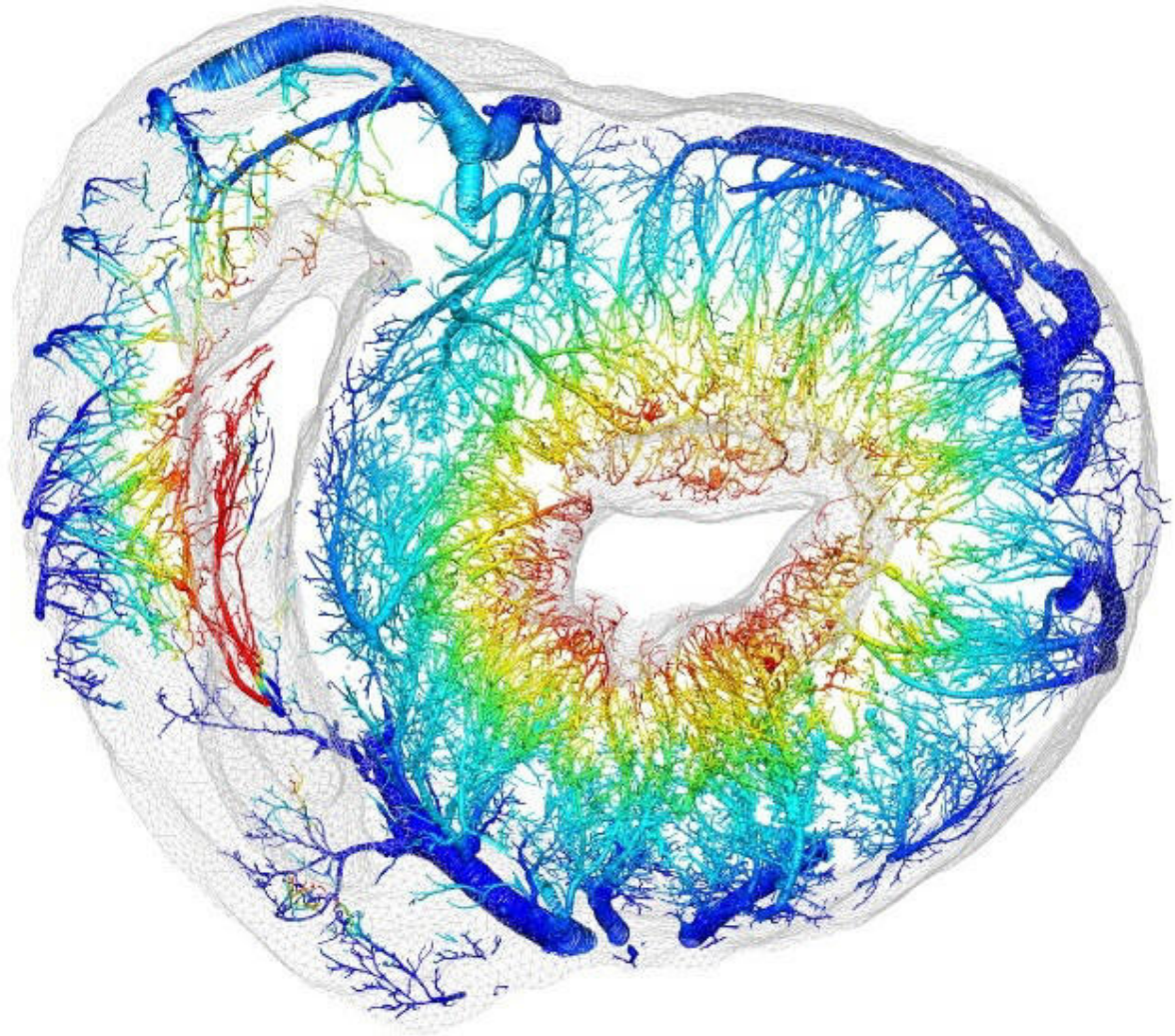
"The historical record provides some reason for optimism." The authors said. Meanwhile, the findings could help researchers better understand why cancer immunotherapies don't work in all patients. Studies from HMS and beyond have shown that the gut microbiome influences immunotherapy effectiveness and bacterial cardiolipins may add a piece to the puzzle.

Professor Clardy's team previously uncovered another simple fatty molecule in a gut bacterium, A muciniphila, that could explain how that bacterium helps make cells more responsive to cancer immunotherapies. "There is a lot of interest in why cancer immunotherapy has such a mixed and unpredictable outcome." Said Professor Clardy. "It would be a privilege to help answer that question."

Co-first authors are Yern-Hyerk Shin and Sunghee Bang, research fellows in biological chemistry and molecular pharmacology at HMS. Additional authors are Sung-Moo Park, Xiao Ma, Chelsi Cassilly, Daniel Graham, and Ramnik Xavier. ::ω::

|| Readmore at thehumanion.com/Medicine || reginehumanicsfoundation.com || 111023 ||

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 ||

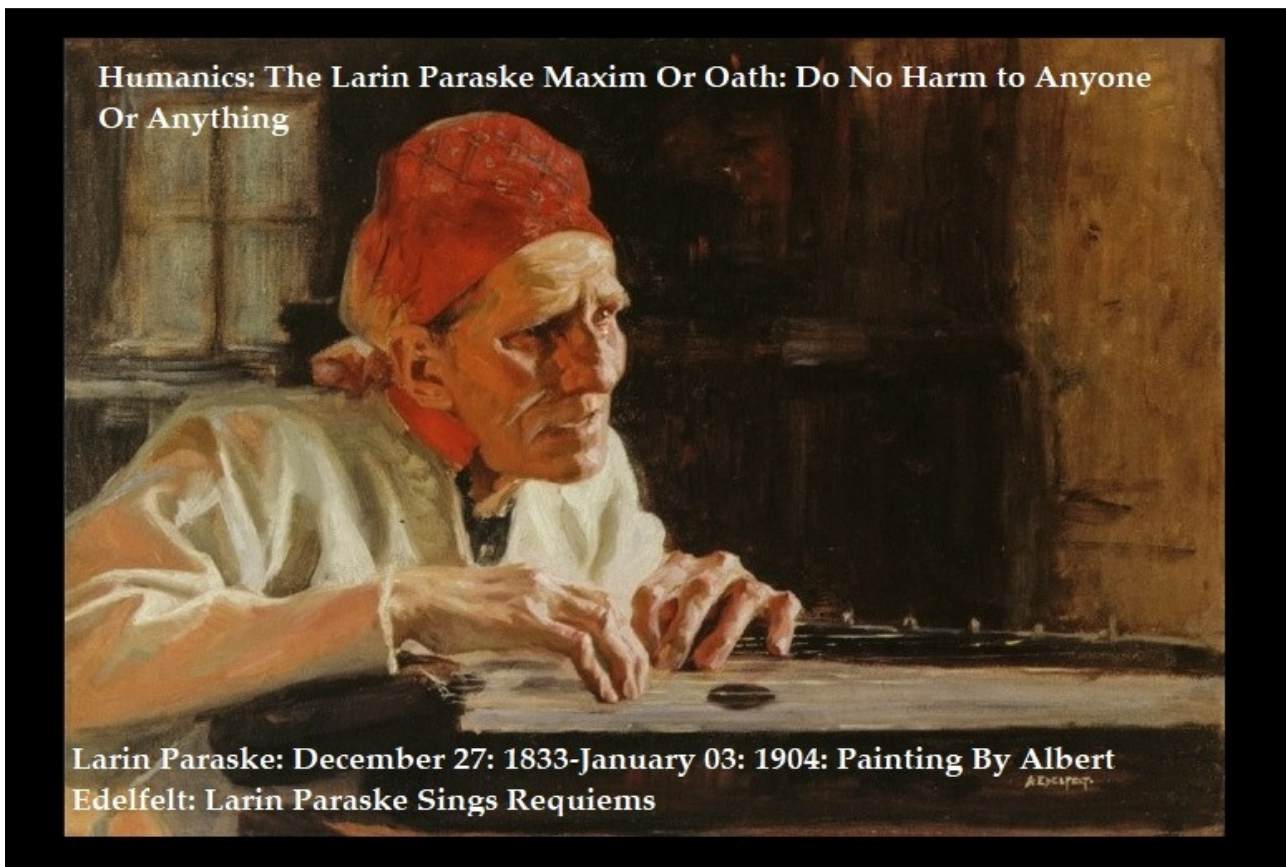
The Image Caption: The Heart: Shortlisted In The BHF Reflections Of Research Competition 2016: Image: Simone Rivolo

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



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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 Humanicxian 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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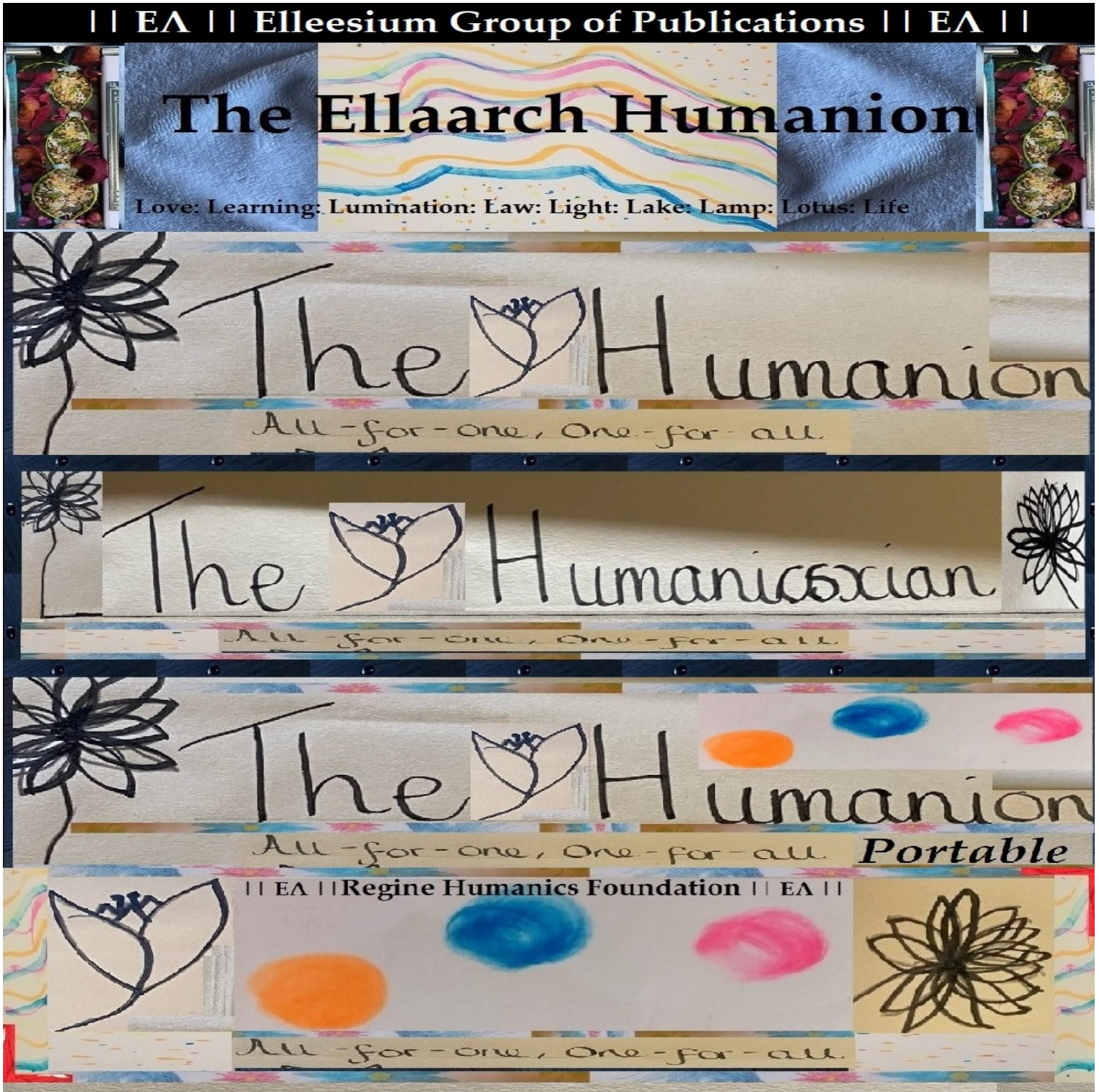


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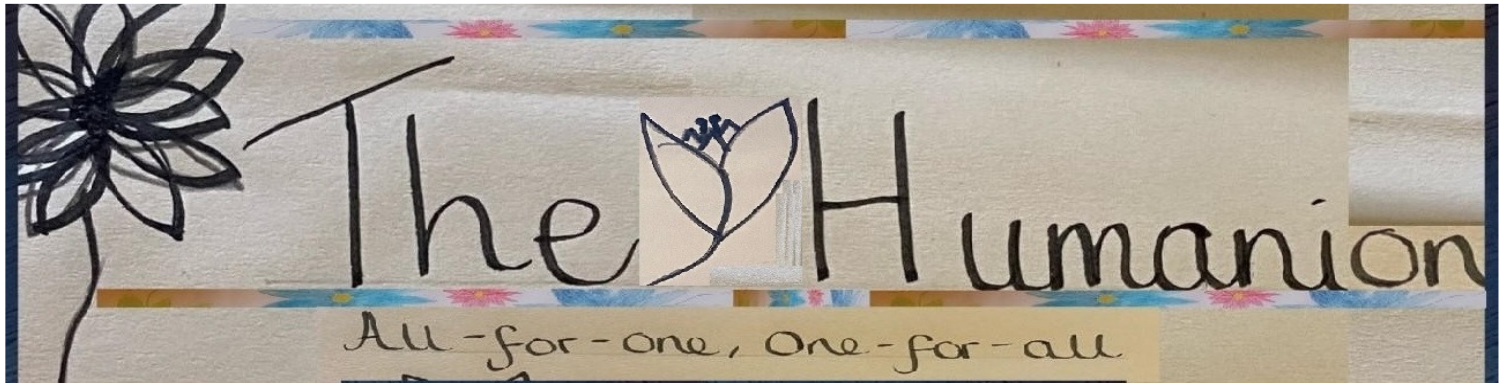
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Killing Mechanism Capitalism IS Unsustainable: The World Shall Change One Day and Every Change Begins with an Idea, with a Vision:

We invite you to Envision the Vision and Philosophy of Humanics and Support The Humanion, The Humanion Portable and The Foundation to Keep Taking Forward the Vision and Philosophy of Humanics, to Keep on Challenging Capitalism's Poverty Paradigm, for an Infinitely Better Humanity in an Infinitely Better Human Condition for All Humanity Across Mother Earth. Thank You.



|| The Humanion ||



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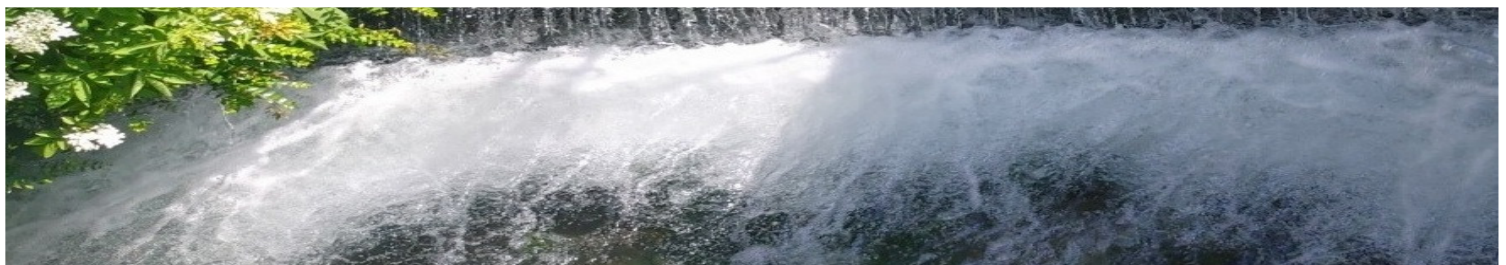
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