

Connecting the Dots...

Lesson From Water Part I



Connecting the Dots...

The Reason Water Can Be Healing.

PART I

“Consilience”
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Connecting the Dots - The Reason Water Can Be Healing.

Making Water Healing Again - Healing from the Elixir of Mother Nature and Gods Creation: Water

This will be an explanation of my theory behind why i suspect water is healing.

Nothing is necessarily new as it is a video that is created to sythesize information and theories from different sources to achieve consilience.

Discretion:

This Video wil contain information on what is known as “Kangen Water” i mention this because there are people out there and or content out there that will say that anything in promotion of it is “dangerous misinformation”.

I encourage you to think for yourself, whatever conclusion you are to come to, i trust that is correct for you.

Disclaimer:

Nothing in this video is to be misconstrued as medical advise or any other form of advise this is simply for documentation and entertainment purposes, please consult an accredited professional.

Reason For This Video

I am creating this video for the intents and purposes of organizing and presenting my research on water and the additional fields in a manner and fashion that will be able to properly convey and distill the information I have researched and studied into a linear sequence in the form of a video that can make it more palpable and easy to understand.

Reason For This Video

That is, easy to understand its potentially significant benefit it poses to your health.

Viewers Discretion

I am also creating it with financial and monetary interest and incentives.

There will be products and services offered unto the audience in the latter stages of the video, i say this to be transparent and forthcoming so that you are not taken off guard by its subsequent recommendation.

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The Four Phases of Matter

As it relates to water, we all know that it can exist as a liquid, solid (ice), and gas (steam).

However, what most people don't know is that water actually has a "fourth phase," a term coined by Gerald H. Pollack and further explored in his widely recognized book, *The Fourth Phase of Water: Beyond Solid, Liquid, and Vapor*.

Another notable point, which naturally leads into the next slide and subject of the table of contents, is that the cytoplasm of cells is said to exist in this fourth phase state.



by **Gerald H. Pollack**

- Professor Emeritus of Bioengineering, University of Washington
 - Founder and Editor-in-Chief, *Water* (scientific journal)
 - Founding Director, Institute for Venture Science (IVS)
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Cell Biology - Cells, Gels & Engines of Life + Aquaporins

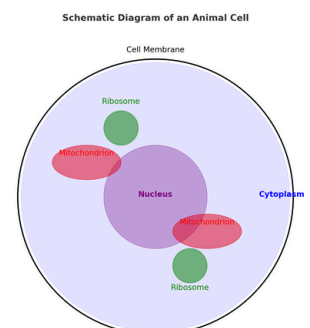
Quick Explanation of the Cells structure

In order to understand what is being talked about when the word “Cytoplasm” is mentioned.

Please refer to this image on the screen.

The Cytoplasm is used to describe the gel like substance encompassing all that is within the cell, such as the nucleus and the organelles where as the “Cytosol” excludes the organelles and such... they’re almost exclusively one in the same thing and is probably a term that came about from reductionistic/mechanistic thinking

I preface this because you may hear cytoplasm and cytosol and think they are different things which they are, but for ease of understanding think of them as the same thing only the cytosol just excludes the organelles.



***CRUCIAL:** Gerald H. Pollack Proposed that the Cells Cytoplasm/Cytosol is in the fourth phase, i.e E.Z Water.

Cell Biology - Cells, Gels & Engines of Life + Aquaporins

is the cytoplasm that which encompasses the gel like material of the cell including the organelles whereas the cytosol is specifically referring to this gel like or liquid/water substance excluding the organelles etcetera?



Yes, that's correct! Here's a breakdown:

- **Cytoplasm:** This refers to everything within the cell membrane but outside the nucleus. It includes the **cytosol**, the organelles (like mitochondria, the Golgi apparatus, etc.), and other cellular structures.
- **Cytosol:** This specifically refers to the gel-like, fluid component of the cytoplasm. It does **not** include the organelles or any other suspended

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Yes, **Gerald H. Pollack** proposed that a significant portion of the water in the cell's cytoplasm (or cytosol) exists in a **structured state**, which he refers to as the **fourth phase of water**, or **Exclusion Zone (EZ) water**. This is distinct from the traditional three phases of water (solid, liquid,

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ChatGPT Response:

Yes, that's correct! Here's a breakdown:

- **Cytoplasm:** This refers to everything within the cell membrane but outside the nucleus. It includes the cytosol, the organelles (like mitochondria, the Golgi apparatus, etc.), and other cellular structures.
- **Cytosol:** This specifically refers to the gel-like, fluid component of the cytoplasm. It does not include the organelles or any other suspended structures. The cytosol contains water, dissolved ions, small molecules, and soluble macromolecules like proteins.

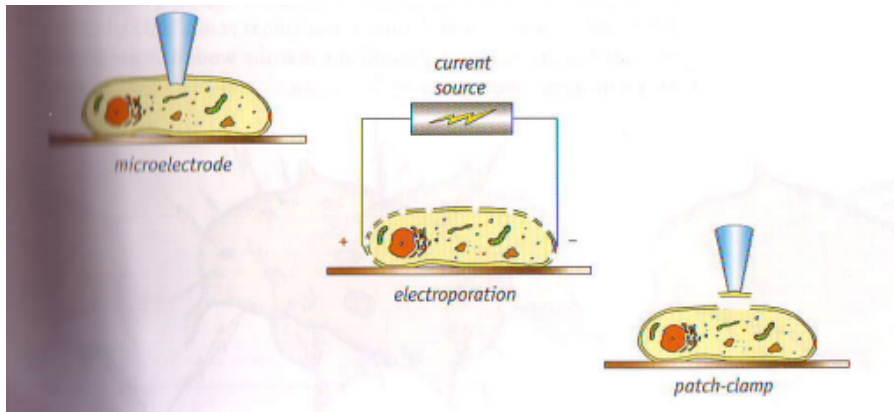
So, in summary:

- The cytoplasm = cytosol + organelles + other structures.
- The cytosol = just the fluid portion of the cytoplasm.

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Cell Biology - Cells, Gels & Engines of Life + Aquaporins

The fact that the cytoplasm within the cell is not simply liquid water is a logical deduction, given the experiments that both literally and figuratively poke holes and challenge the traditional conception of the cytoplasmic structure.



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Harold Hillman on the Structure of the Cell

*Correction he did not just think that the cell was only the nucleus, cytoplasm and mitochondria...

Harold Hillman, a British scientist, was known for his controversial views on cell biology and the structure of cells as interpreted by electron microscopy. While he did not explicitly reduce the cell to merely the mitochondria, cytoplasm, and nucleus, he argued that conventional depictions of cellular ultrastructure, especially as derived from electron microscopy, were misrepresentations.

Key Aspects of Hillman's Views:

1. **Criticism of Electron Microscopy:** Hillman believed that the techniques used in electron microscopy—such as fixation, dehydration, and staining—artificially altered the cell's structure. He argued that much of what is described as organelles and other sub-cellular components were artifacts of these methods.
2. **Skepticism Toward Organelle Complexity:** He questioned the existence or function of structures like the Golgi apparatus, endoplasmic reticulum, and even ribosomes as traditionally described. His minimalist view suggested that cellular processes might be more straightforward than commonly understood.
3. **Simplified View of the Cell:** While Hillman did not reduce the cell strictly to the mitochondria, cytoplasm, and nucleus, he emphasized these as fundamental components and was skeptical of the detailed subcellular anatomy popularized by modern cell biology.

Criticism of Hillman:

Hillman's views were largely dismissed by mainstream scientists, as they conflicted with a vast body of evidence obtained from diverse methodologies, including live-cell imaging, biochemistry, and advanced microscopy techniques. However, his critiques served as a reminder of the importance of rigor in interpreting experimental data, especially when methods might alter the subject of study.

In summary, Hillman did not outright reduce the cell to just mitochondria, cytoplasm, and nucleus, but he strongly critiqued the complexity and interpretations of subcellular structures, advocating for a simpler and more skeptical perspective.



Harold Hillman

British Scientist

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The Cell Experiments “Poking Holes” in cell biology were cited from other resources in the book were external of Mr. Pollack, that is they werent conducted by him directly.

However, Pollack also draws heavily on the work of other researchers to build his case. He references a wide range of studies from the fields of cell biology, biophysics, and water chemistry to support his theories and provide context for his findings.

Key Points:

1. Pollack's Own Research: Many of the experimental insights in the book, particularly those about structured water and its exclusion properties, stem from Pollack's laboratory. For example, his team conducted studies on how water interacts with hydrophilic surfaces and its ability to exclude solutes, forming the so-called "EZ water."
2. References to Other Researchers:
 - Pollack builds on earlier work by scientists like Gilbert Ling, who proposed theories of structured water in cells, and Albert Szent-Györgyi, who studied the role of water and proteins in cell dynamics.
 - He also discusses findings from mainstream cell biology and biochemistry to compare and contrast with his alternative perspectives.
3. Interpretation and Integration: Pollack often reinterprets existing data through the lens of his structured water hypothesis, aiming to shift the paradigm from a "membrane-centric" to a "water-centric" understanding of cellular function.

In summary, both Pollack's original research and the work of others are integral to the book. He uses his experiments to provide evidence for his theories while contextualizing them within a broader scientific narrative.

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Cell Biology - Cells, Gels & Engines of Life + Aquaporins



AQP1 Discovered by Peter Agre

Peter Agre is an American physician, Nobel Laureate, and molecular biologist

AQP1 - Aquaporin channels in the cell where water enters the cell.



Gilbert Ling


Chinese-American physiologist and biochemist

Gilbert Ling proposed that the membrane pump theory is flawed.

did Gilbert ling do the math of the amount of energy it would take to power cellular channels?

Yes, Gilbert Ling did calculate the energy requirements for the operation of cellular ion channels as proposed by the conventional membrane-pump theory, and he found the results problematic. He argued that the energy demands of ion pumps, such as the sodium-potassium pump (Na^+/K^+ ATPase), would vastly exceed the energy available to the cell through ATP production. This discrepancy led him to question the validity of the membrane-pump theory.

Ling's Calculations:

1. Ion Pump Energy Demand: 

Ling estimated the energy required to pump ions (such as Na^+ and K^+) across the cell

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Genetics & Metabolism + Hydrocarbons , Internal Combustion Engines & Fuel Cells

Now when we talk about an ailment that is sometimes referred to as the “emperor of all maladies”, i.e Cancer.

It is actually significantly important to understand the former slides on the note of the cytoplasm.

If you pay attention you will understand why by the end of this video, if not during the explanation in this section regarding genetics and metabolism.

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Genetics & Metabolism + Hydrocarbons , Internal Combustion Engines & Fuel Cells

Generally there are two “schools of thought” that have two different perspectives on approaching and understanding what causes cancer.

Obviously, these two are

1. Genetic - Somatic Mutation Theory
2. Metabolic - Warburg Hypothesis

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“Somatic Mutation Theory”

To make this simple and to explain it in as “layman termed” manner as possible

The Genetic “school of thought” believes that Genetic Mutations/Defects within the nucleus of the cell precede all the remaining postulates and are thus the cause of all the remaining traits of a cancerous cell and region of the body.

“Warburg Hypothesis “

The Metabolic “School of thoughts” premise is essentially the same however obviously it tying back the cascade of cancerous traits and its origin to be preceded and caused by metabolic defects and also the byproducts of defective cellular metabolism/energy production.

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Cybrid Experiments - Why Aren't More People Talking/Fanatically Raving On About This?

Now what i'm going to show you next is three videos from both Dr. Matthew Phillips, Professor Thomas Seyfried & Dr. Jerry Tennant.



Dr Matthew CL Phillips
<https://www.metabolicneurologist.com/>



Dr. Thomas Seyfried
<https://tomseyfried.com/>

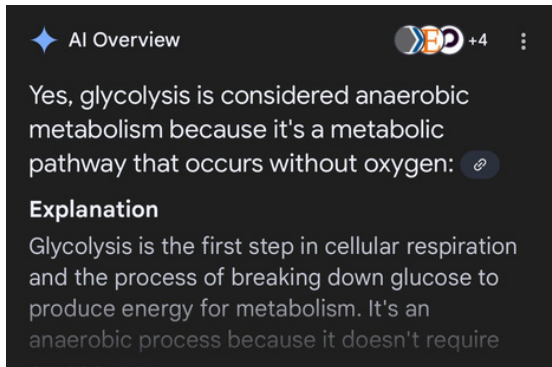


Dr. Jerry Tennant, MD, MD(H), PScD
<https://tennantproducts.com/>

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Genetics & Metabolism + Hydrocarbons , Internal Combustion Engines & Fuel Cells

My AI conversation with my Browser:



My Conversation with ChatGPT



do biological cells produce byproduct as a result of energy production/metabolism in a similar fashion the fuel cells and I.C.E's produce byproducts as a result of energy production (Evidently not the same byproducts but nonetheless make byproducts)?



Yes, biological cells produce byproducts as a result of energy production and metabolism, much like fuel cells or internal combustion engines (ICEs) produce byproducts during their energy conversion processes. While the specific byproducts differ due to the nature of the energy systems, the principle of byproduct formation during energy generation is consistent across these systems.



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Dr Matthew CL Phillips
Metabolic Neurologist

Watch Full Video:

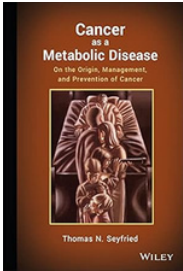
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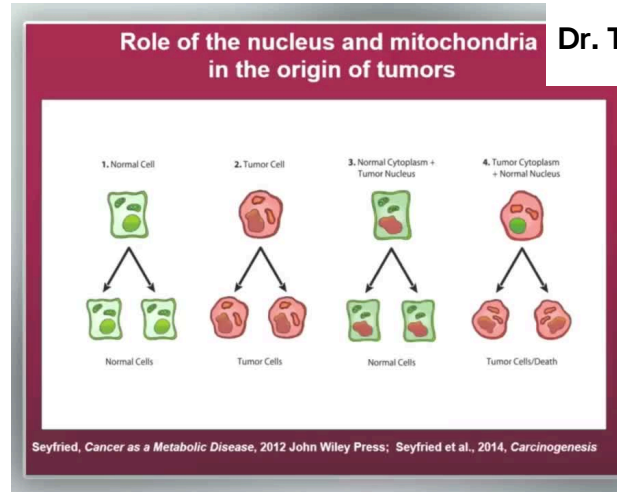
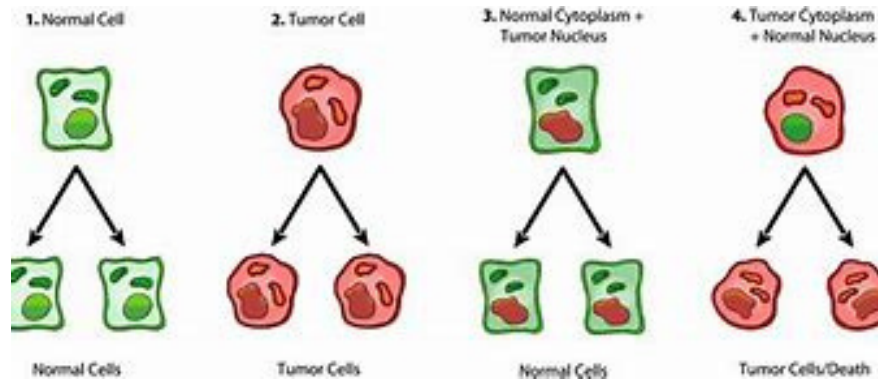
Dr. Thomas . Seyfried
Biochemical Geneticist

Professor Thomas Seyfried also citing the cybrid experiments.

This gives an indication of the fact that focus on the treatment of both the mitochondria & cytoplasm should hold a position of centrality in regard to healing efforts in regard to treating "the emperor of all maladies"



"Cancer as a Metabolic Disease"
By Dr. Thomas . Seyfried



Dr. Thomas . Seyfried
Biochemical Geneticist



Watch Full Video:

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“It’s the mitochondria & cytoplasm”

Dr. Thomas . Seyfried

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If pairing healthy cytoplasm and mitochondria with cancerous nuclei makes the overall state of the cell healthy and no longer cancerous.

**Then naturally the question becomes,
how do we structure the cytoplasm back to its
healthy state?**

***CRUCIAL:** Gerald H. Pollack Proposed that the Cells
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Before we answer that question we have to know how the cytoplasm and mitochondria become defective and how they malfunction and become unhealthy.

From there we can logically deduce and reverse engineer back to its healthy state.

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So, its been established that the Cytoplasm of the cell is “Exclusion Zone Water” or “Fourth Phase Water”

So essentially when the cytoplasm starts to the lose the characteristics and physicochemical properties that this state or kind of water has that it is now in a lesser optimal / unhealthier state.

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When the cytoplasm has lost its negative electric charge this effects the amount of amount oxygen that is able to be utilised into metabolism as the negative electric charge or voltage is what determines how much oxygen is able to be dissolved into the cellular environment and thus enter the mitochondria to be used for metabolism & or ATP energy production

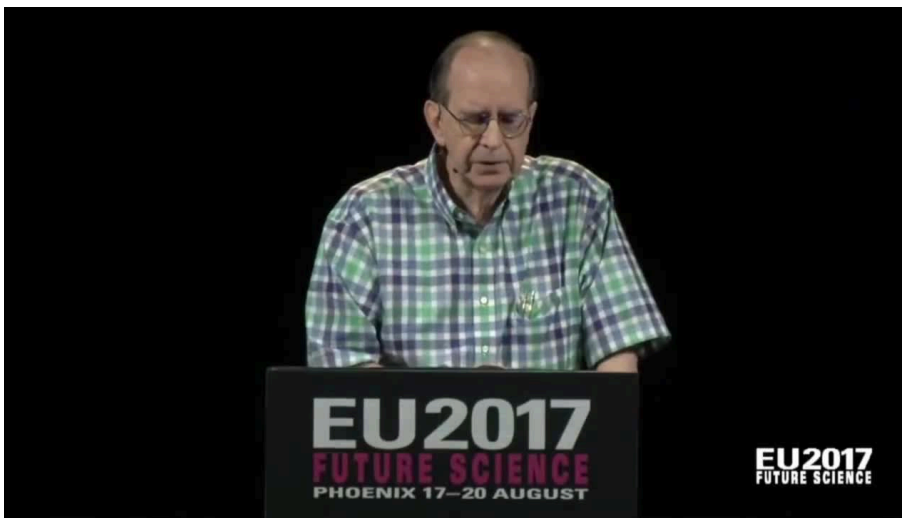
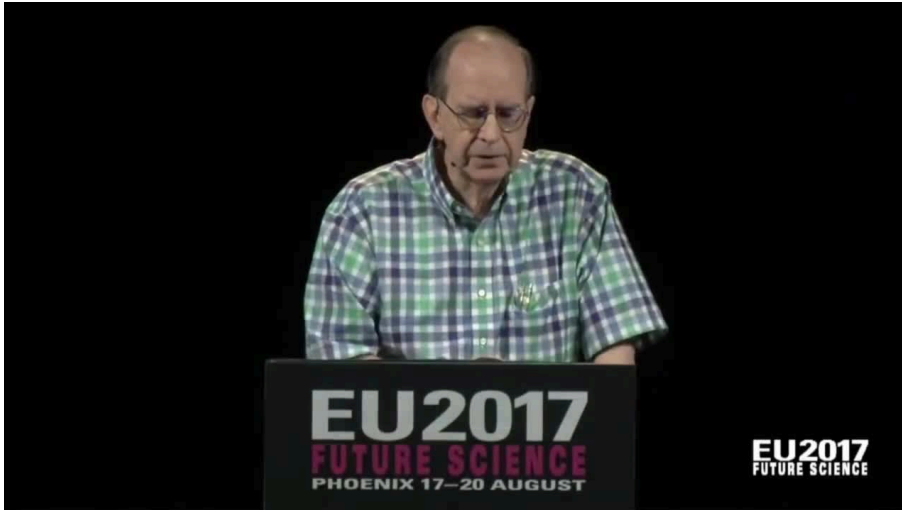
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When the mitochondria is defective and or metabolism is ill effected, there is a subpar amount of ATP that is created in the cell

The lesser the ATP the more subpar the structuring of the cytoplasm is.

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This would be better explained by Dr. Jerry Tennant



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