

CSO

Saturday, June 5, 2021,
10:00 am to 12:00 pm

the living matrix

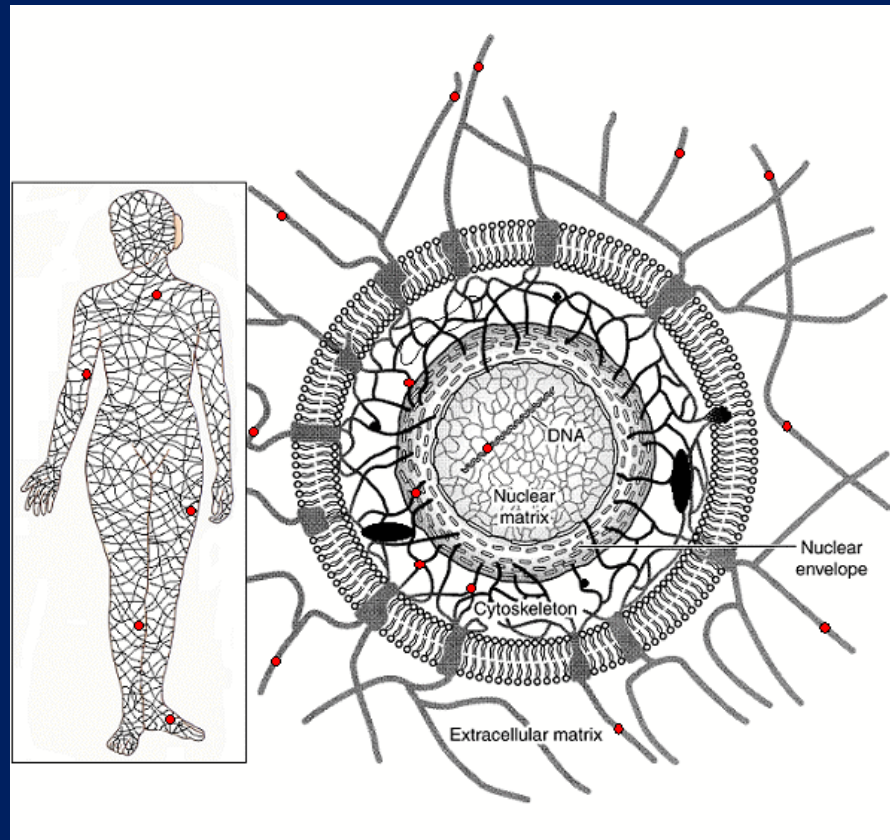
latest water research

scalars

homeopathy

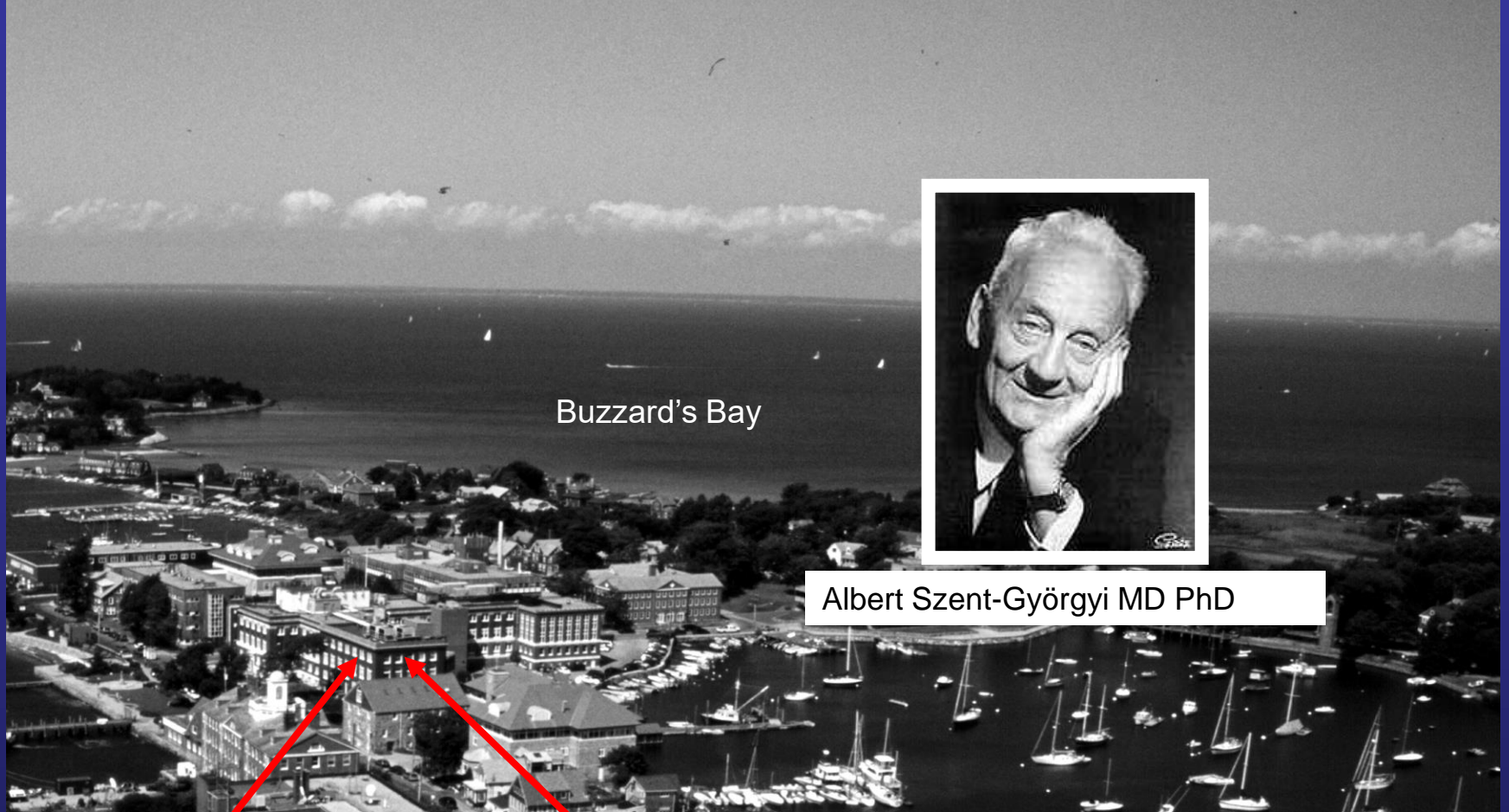
the origin of form in cells and tissues

structure of space and electromagnetic fields



The Living matrix

*My introduction to
the science of energy medicine:*



Buzzard's Bay



Albert Szent-Györgyi MD PhD

Oschman's lab

Szent-Györgyi's laboratory

1980's: The Marine Biological Laboratory,
Woods Hole, Massachusetts



1937 - 2012

Albert Szent-Györgyi
(1893-1986)
MD, Budapest, 1917
PhD, Cambridge, 1927



Nobel Prize 1937
Synthesis of Vitamin C
from Hungarian paprika



Actomyosin thread



same thread contracted

Lasker Award 1954
Contraction of muscle proteins *in vitro*
triggered by addition of calcium and
ATP

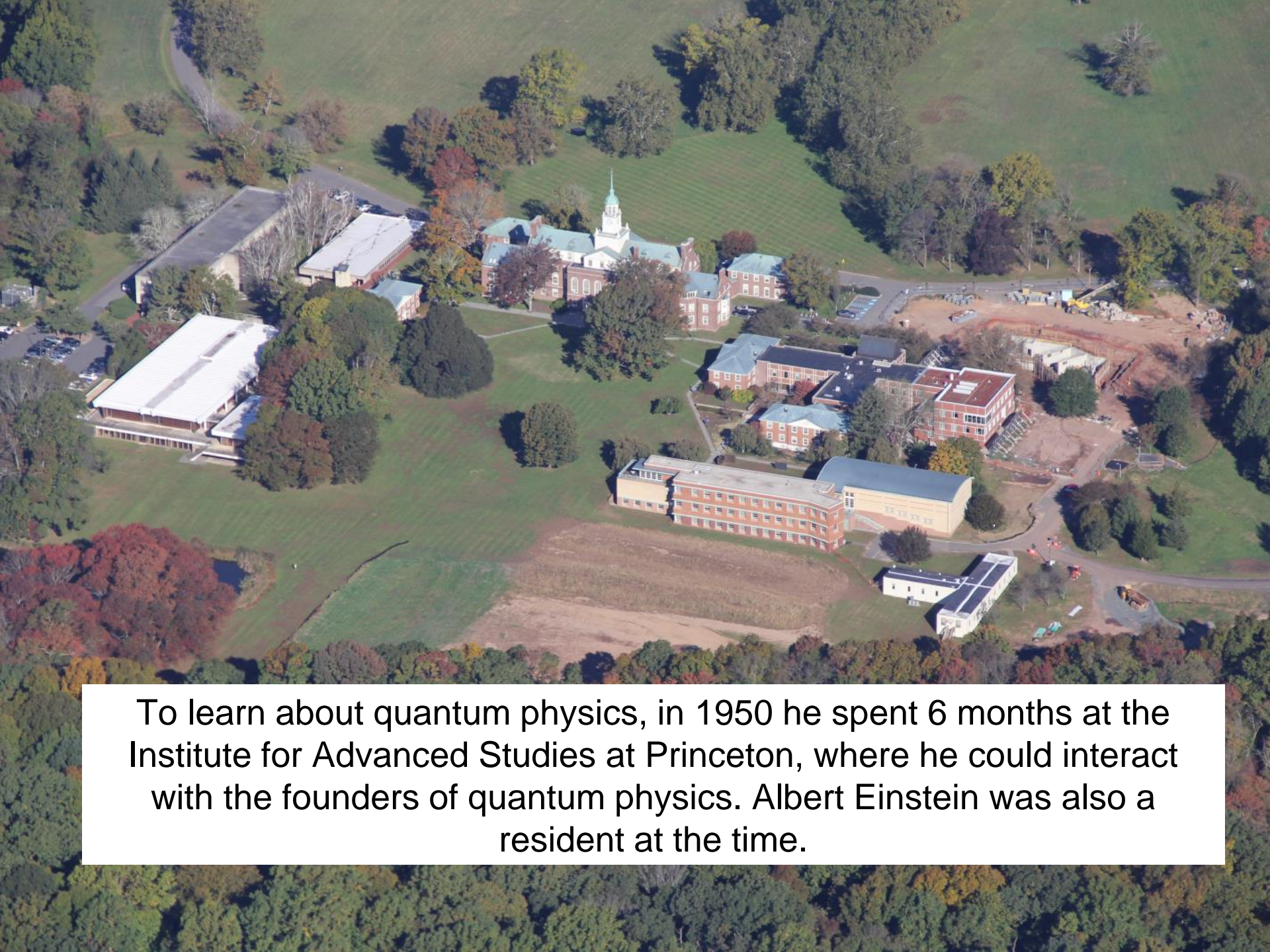


Actomyosin thread



same thread contracted

To see these little artificial muscles jump for the first time was, perhaps, the most exciting experience of my scientific life. These studies formed the foundation for muscle research in the following decades.



To learn about quantum physics, in 1950 he spent 6 months at the Institute for Advanced Studies at Princeton, where he could interact with the founders of quantum physics. Albert Einstein was also a resident at the time.

Deficiency diseases:

Deficiency diseases:

Scurvy – vitamin C

Rickets – vitamin D deficiency

Osteoporosis – calcium deficiency

Beriberi – vitamin B-1 deficiency

Goiter – iodine deficiency

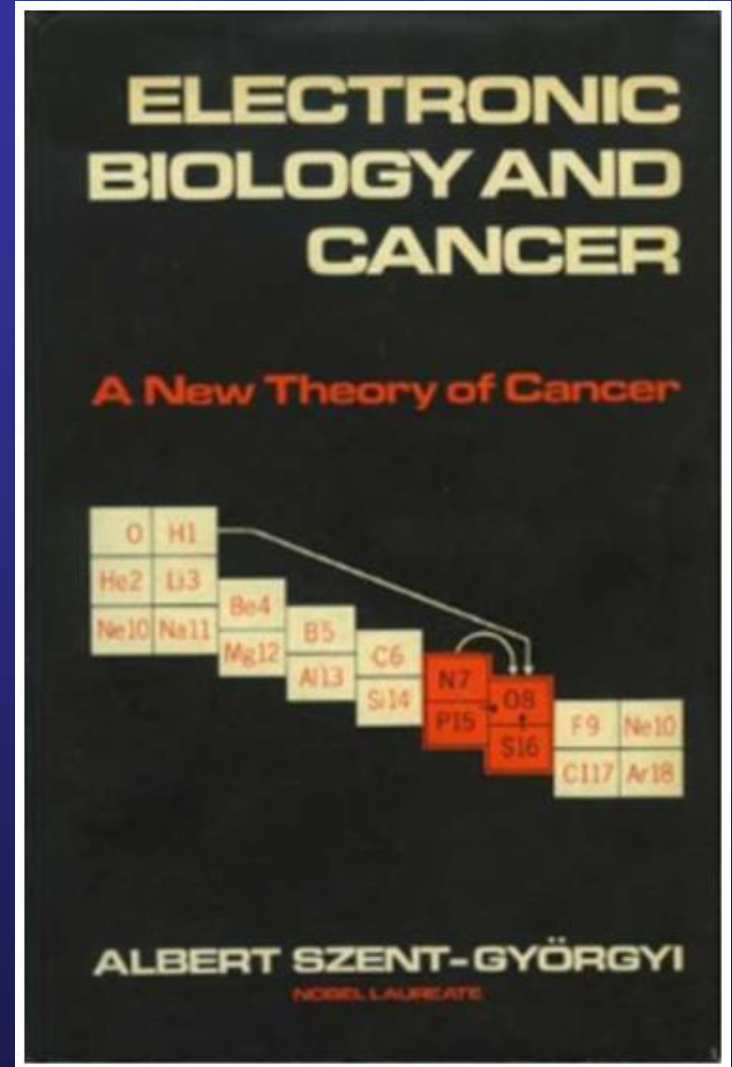
Anemia – iron deficiency

Pellagra – niacin (vitamin B 3)

Electron deficiency – lack of earth contact



July 1972
 Thursday evening lecture:
*Electronic Biology and
 Cancer.*



1976



1955: His wife, Marta (1910-1963), pinning an American flag on him in commemoration of his becoming a naturalized citizen.



1955: With his daughter Cornelia ("Little Nelly") in Italy.

The fact that biology is unable to solve some of the most important everyday problems of medicine (such as cancer and heart disease) while harvesting the most brilliant successes in other fields, indicates that there are gaps and uncharted territories in our basic knowledge which research is unable to penetrate.

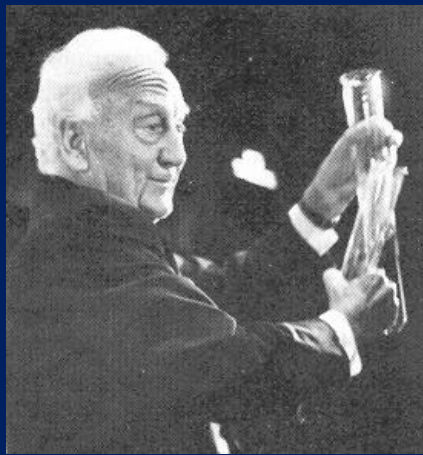
~Albert Szent-Györgyi (1978) *The Living State and Cancer*

He thought energy
was the gap and
uncharted territory
in our basic
knowledge.

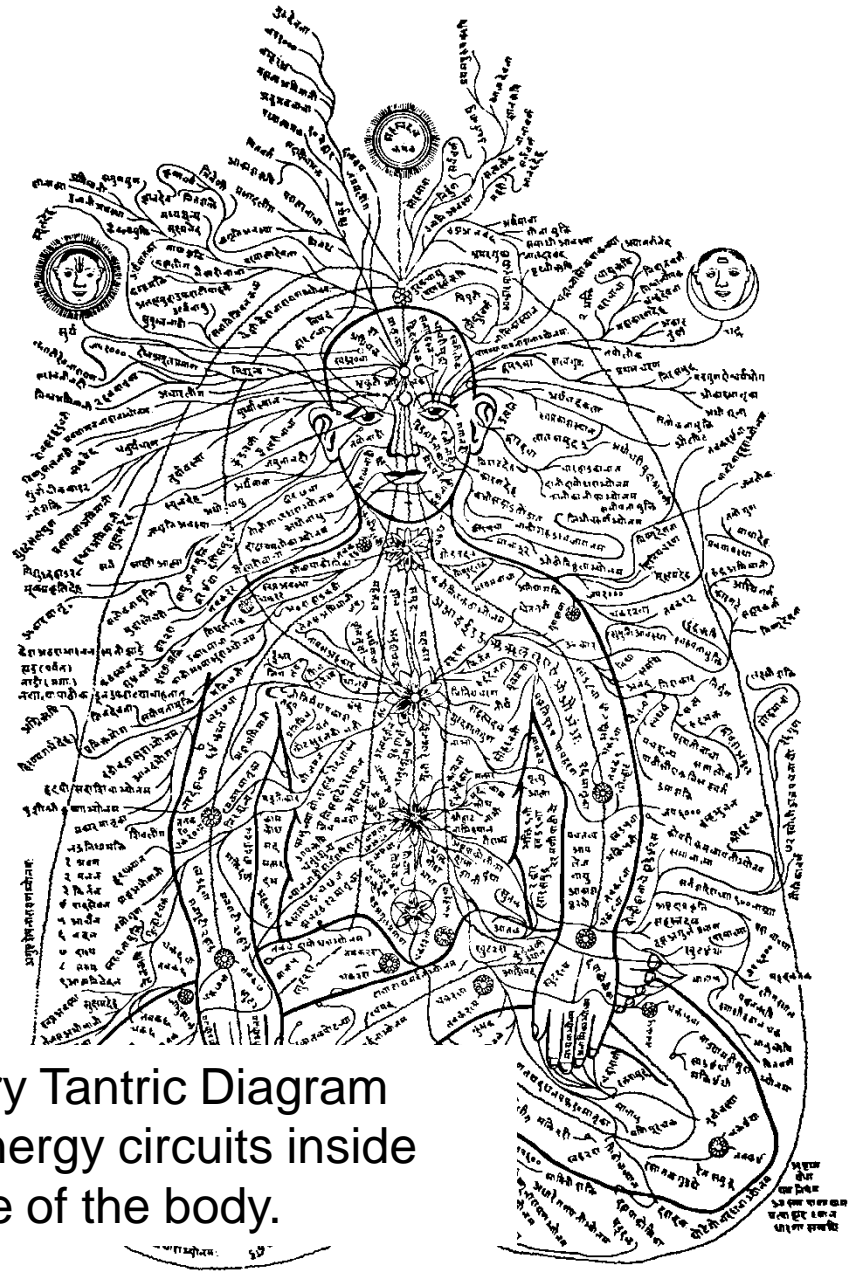


Albert Szent-Györgyi

In every culture and in every medical tradition before ours, healing was accomplished by moving energy.

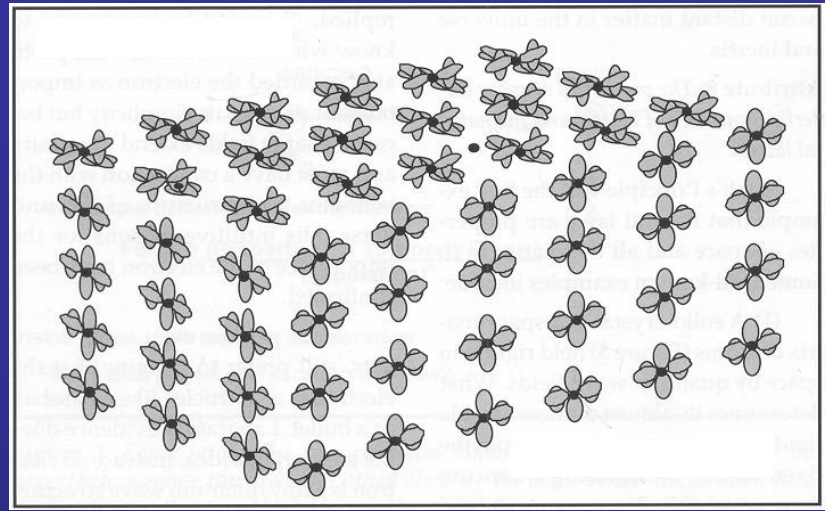


Albert Szent-Györgyi



17th Century Tantric Diagram showing energy circuits inside and outside of the body.

In 1941, Szent-Györgyi made an historic presentation at the Korányi Memorial Lecture in Budapest. His talk was published in both *Science* (*Towards a New Biochemistry?*) and *Nature* (*The Study of Energy Levels in Biochemistry*). The remarkable insight that was the topic of his presentation was that proteins are semiconductors, rather than insulators, as had been thought previously. This idea explained how free electrons could be generated and could convey energy from place to place within an organism. He introduced these new ideas as follows:



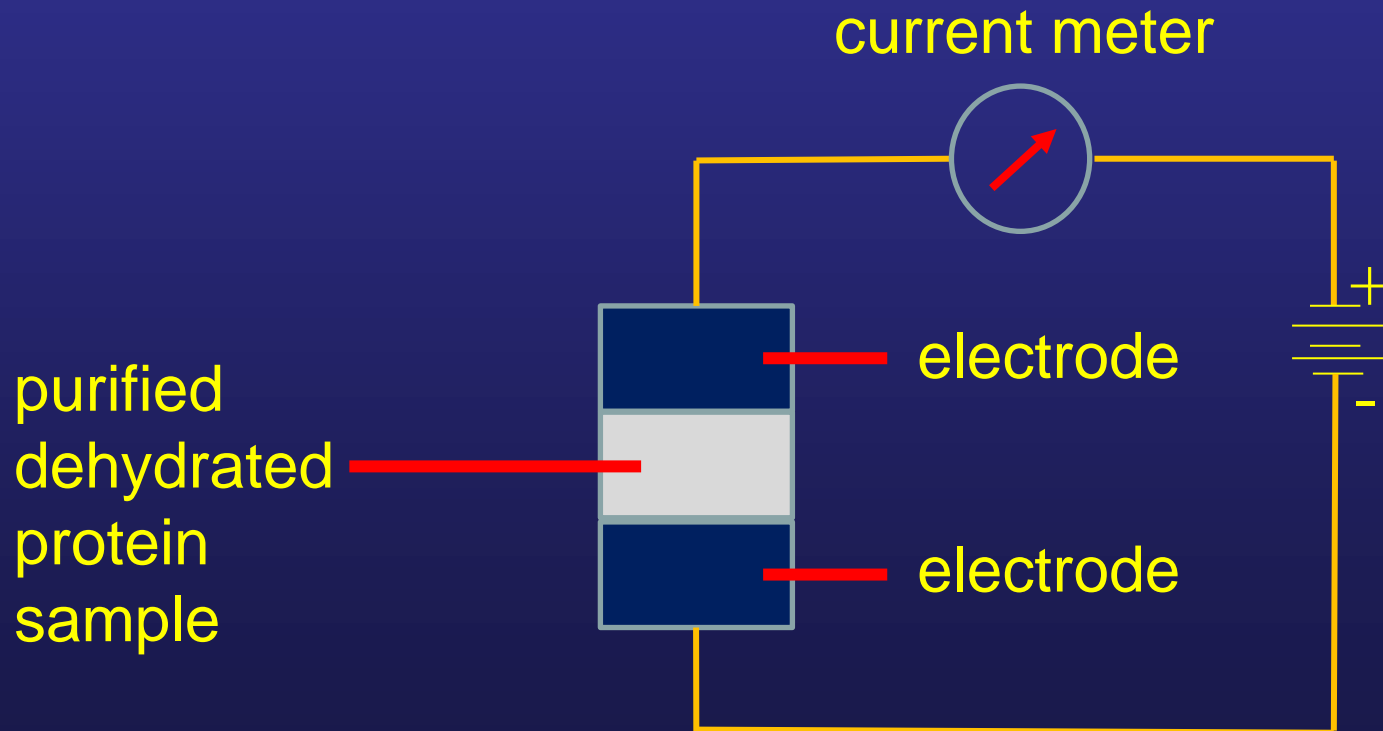
If a great number of atoms be arranged with regularity in close proximity, as for example in a crystal lattice, single [valency] electrons cease to belong to one or two atoms only and belong instead to the whole system. A great number of molecules may join to form energy continua. Along which energy, namely excited electrons, may travel a certain distance.

Proteins may be semiconductors!

~ Albert Szent-Györgyi (1941)

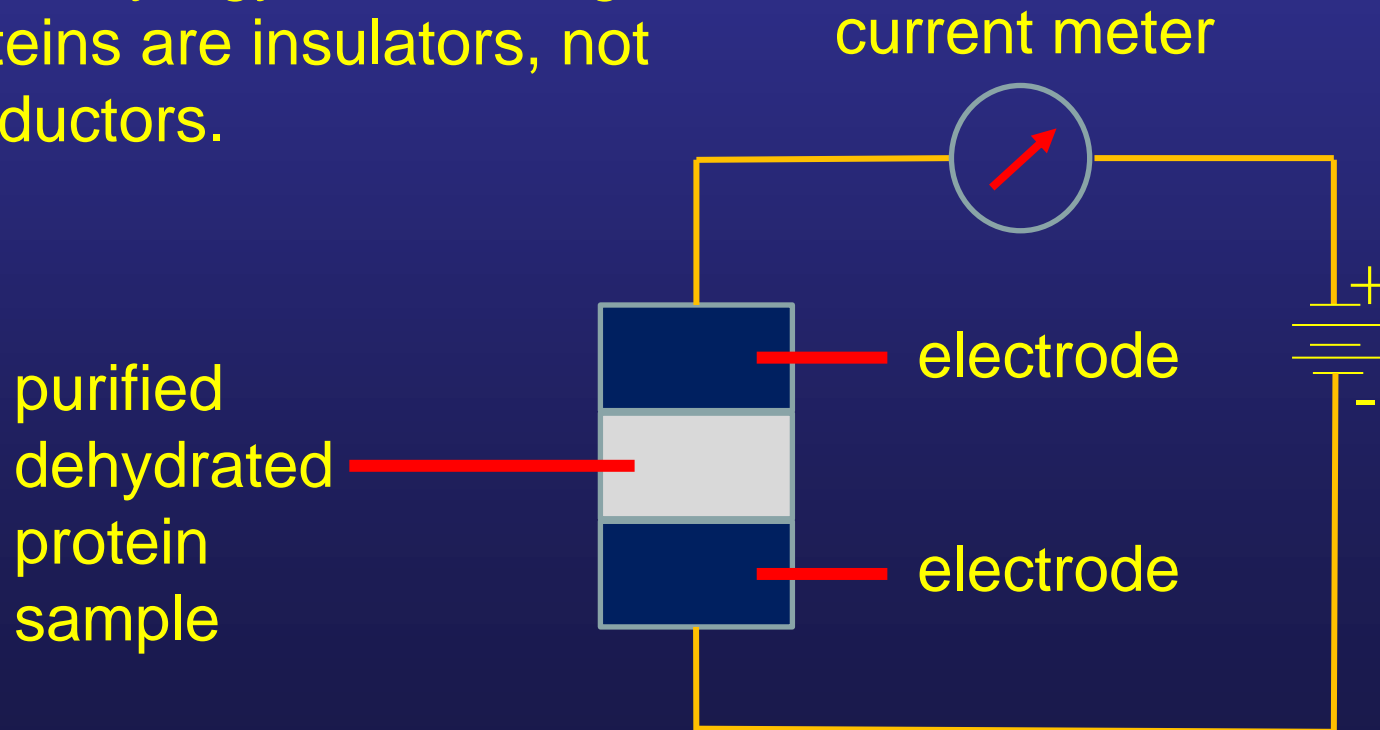
Towards a new biochemistry? *Science* 93:609.

Biochemists were sure he was wrong
and set about to prove it.



Biochemists were sure he was wrong
and set about to prove it.

No current flows, therefore,
Szent-Györgyi was wrong
proteins are insulators, not
conductors.



And so it was for many years.

Ask anyone who knows about proteins today, and they will tell you that the idea that proteins are semiconductors is utter nonsense.

Jump forward 65 years from 1940:

“The seminal ideas from which molecular electronics has developed were the theories of molecular conduction advanced in the late 1940’s by Albert Szent-Györgyi and Robert S. Mulliken.”

Hush, N.S., 2006. An overview of the first half-century of molecular electronics. *Annals of the New York Academy of Sciences* 1006: 1-20.

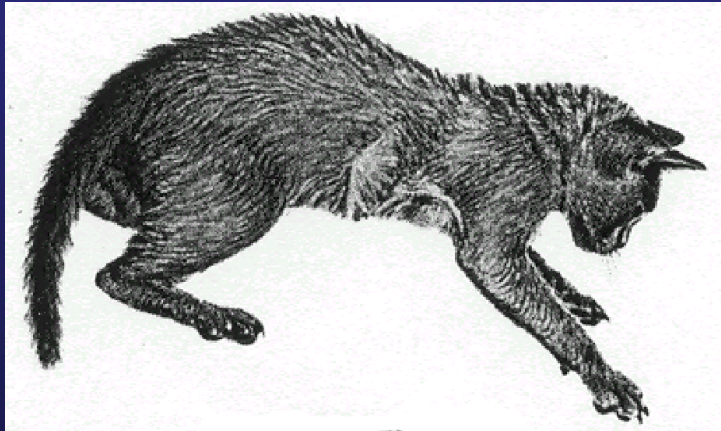
Robert S. Mulliken and Albert Szent-Györgyi developed the enabling science of molecular conduction, an aspect of molecular electronics that, to this day, remains of paramount importance.

~N. S. Hush (2006)

Miniaturization down to single molecules brings the scale of electronic circuits down to a regime where quantum mechanics effects are important.



*Life is too rapid and
subtle
to be explained by
slow moving chemical
reactions and
nerve impulses.*



~Albert Szent-Györgyi

C:\Users\ADMIN\Desktop\2021\THREE
LECTURES FOR MAY 2021\Scared
kitten jumps - YouTube.flv

















Ron Pethig

The cat just suddenly shot up in the air because it had seen a snake, and Szent-Györgyi said there was no way that the whole reaction, that cat, everything in that cat, could jump all at once. This was not classical Newtonian physics. It had to be a sub-molecular event, a quantum leap.

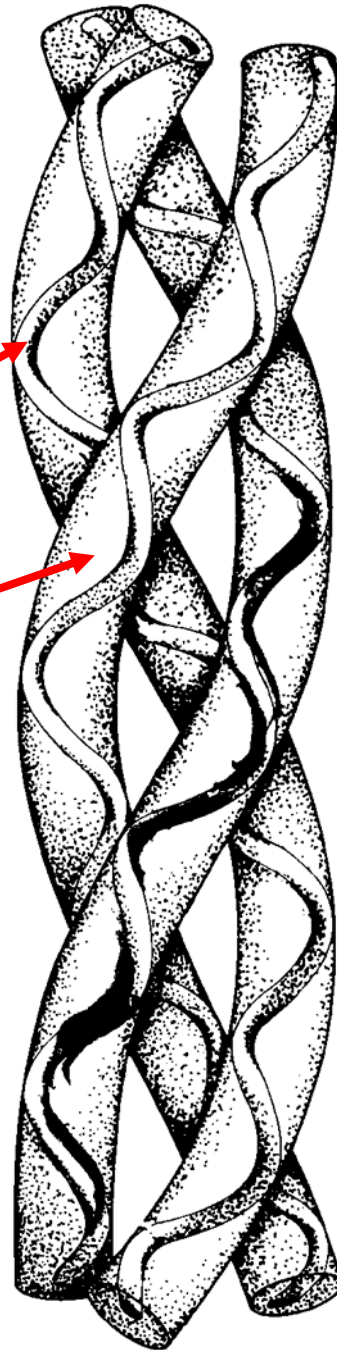
~Interview with Ronald Pethig, August 20, 2004

<http://profiles.nlm.nih.gov/WG/B/B/L/W/>

Collagen is a semiconductor!

Collagen protein

Hydration shell



Gascoyne, Pethig and Szent-Gyorgyi, 1981. Water structure-dependent charge transport in proteins. Proc. Natl. Acad. Sci. 78:261-265.

A small increase in water content can yield a huge increase in conductivity.

Search and Discovery
A Tribute to Albert Szent-Györgyi

EDITED BY
BENJAMIN KAMINER



Peter Gascoyne and Ron Pethig

1976 Symposium
held at Boston University
School of Medicine



electron spin resonance spectrometer



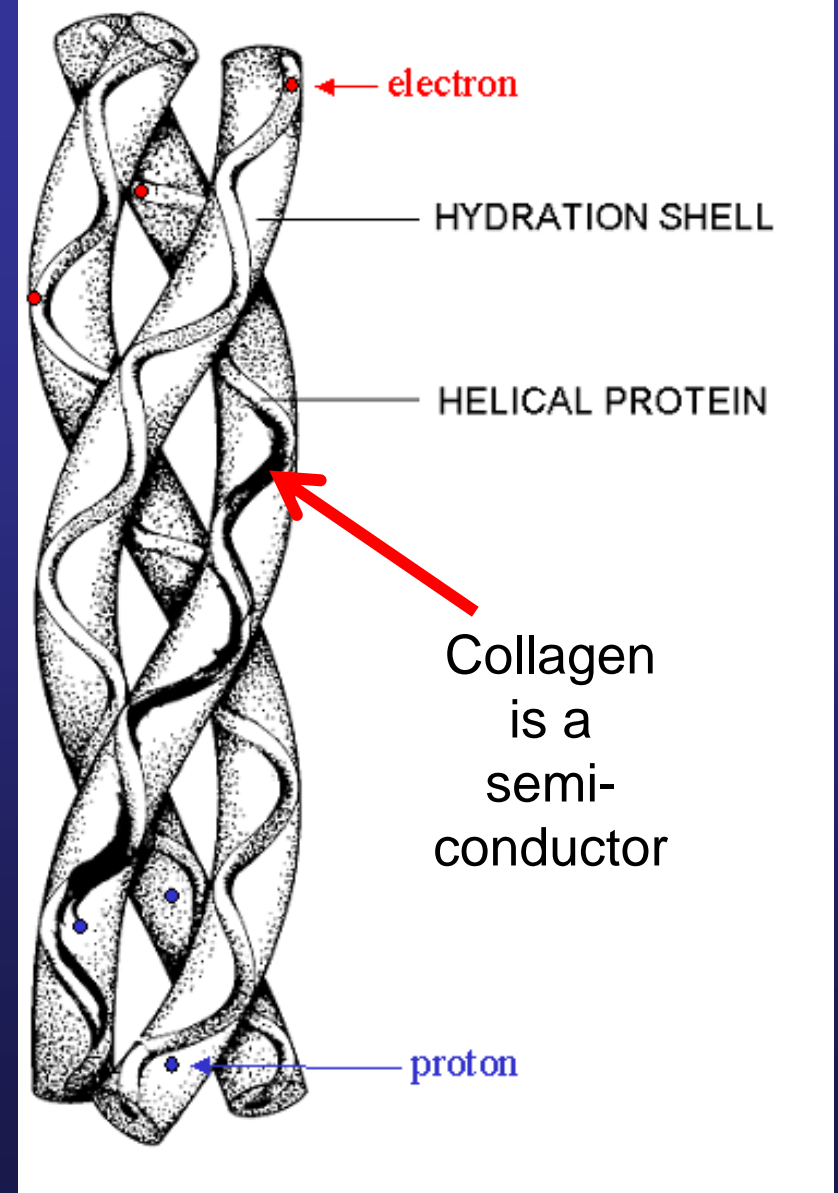
Peter Gascoyne and Ron Pethig

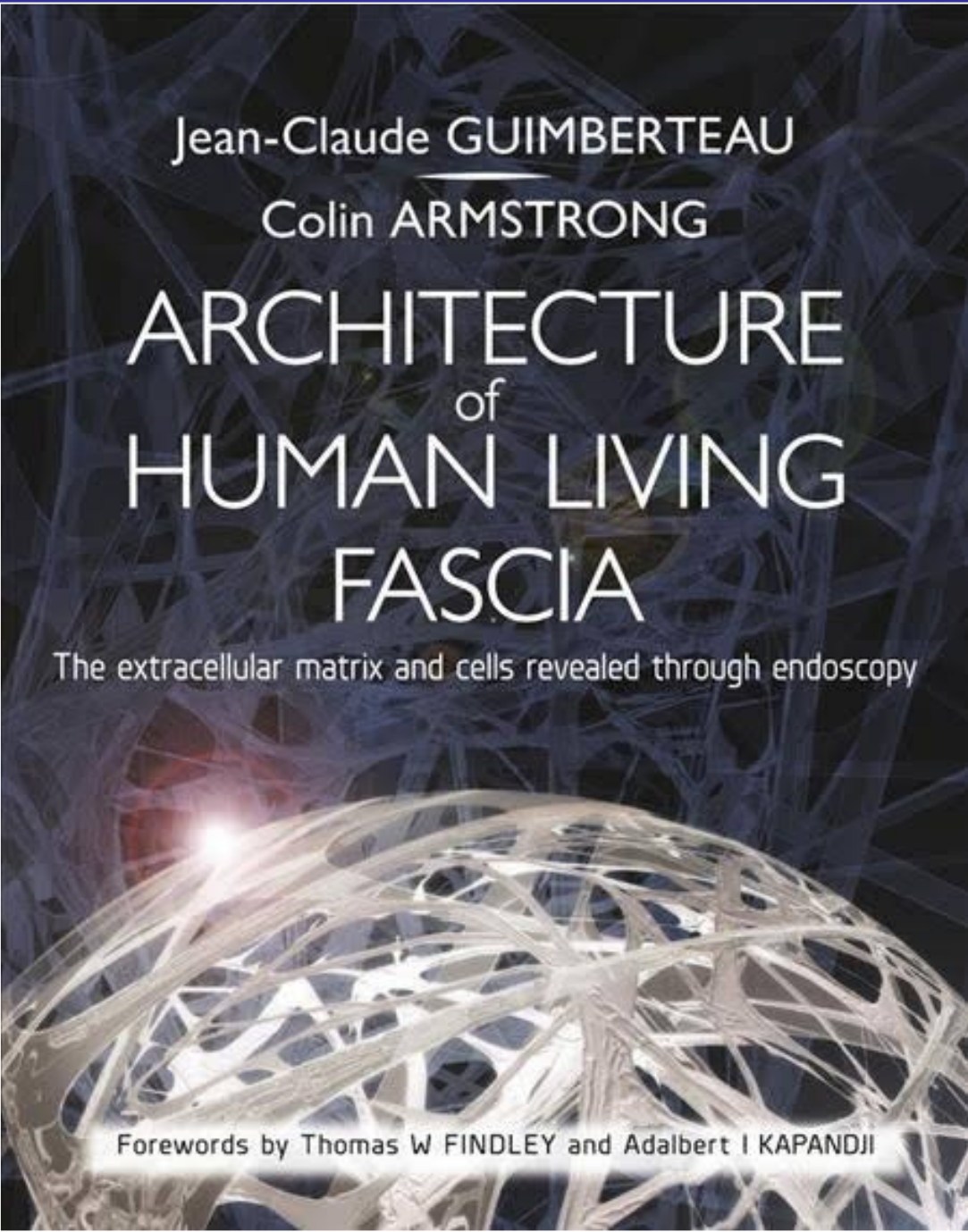
CONFIRMED THAT PROTEINS ARE SEMICONDUCTORS.

His legacy:



Albert Szent-Györgyi





Jean-Claude GUIMBERTEAU

Colin ARMSTRONG

ARCHITECTURE of HUMAN LIVING FASCIA

The extracellular matrix and cells revealed through endoscopy

Forewords by Thomas W FINDLEY and Adalbert I KAPANDJI

The New England School of Acupuncture

- Kiko Matsumoto
- Stephen Birch



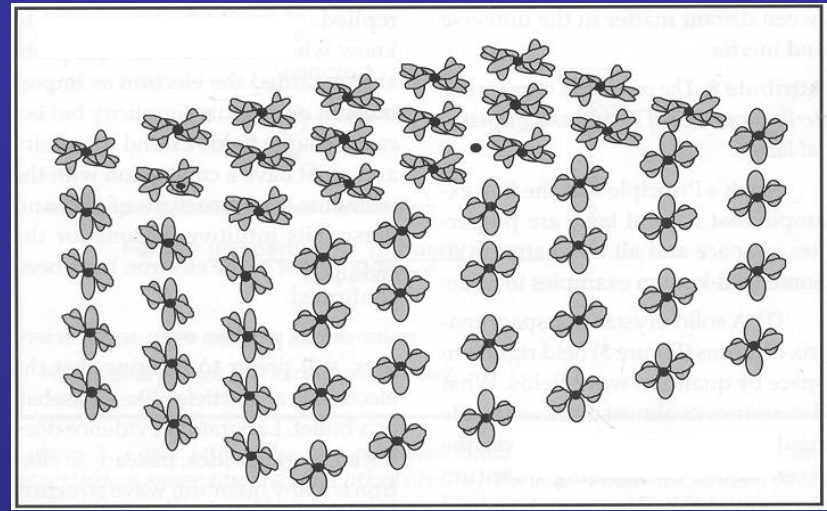
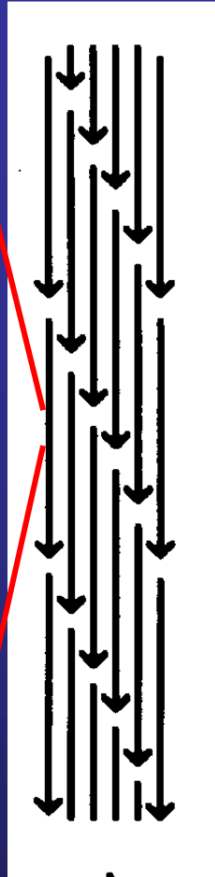
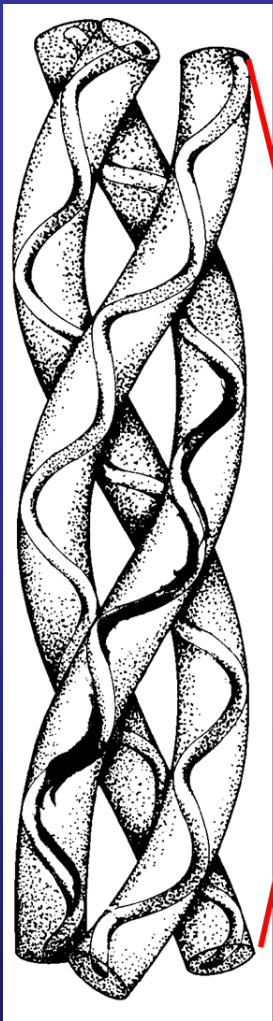
**Han Shu, 16 A.D.
Nan Jing, 100 A.D.
Wan Shu He, 3rd century A.D.
Chen Yan, 1174 A.D.
Hua Shou, 1361 A.D.
Yu Bo, 1577 A.D.
Ippo Okamoto, 1703 A.D.
Royoan Terashima, 1712 A.D.
Xie Lin, 1895 A.D.
Wu Kao Pan, 1980 A.D.**

膜膏 膜育 絡 膜膏

- *Fat, greasy membranes*
- *Fasciae*
- *Systems of connecting membranes*
- *That through which the yang qi streams*

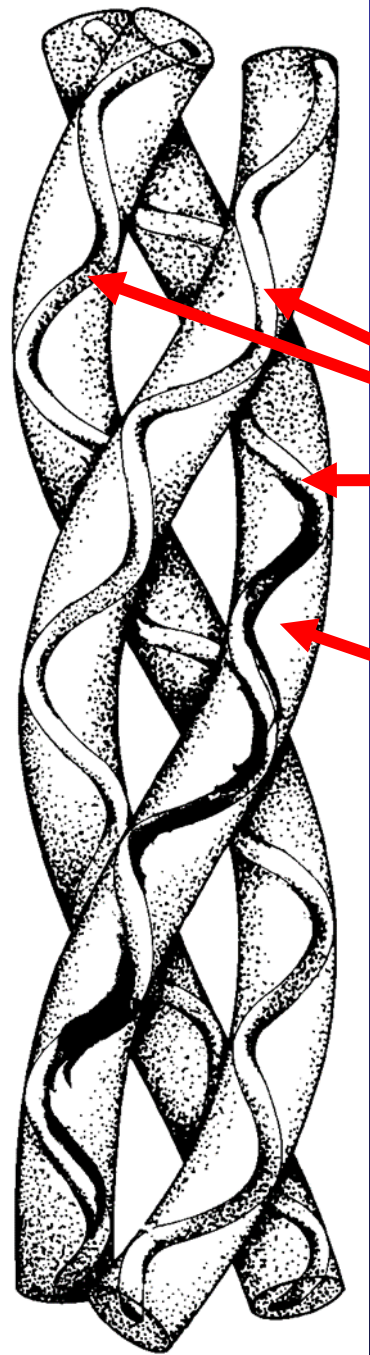
~Mansumoto & Birch





The collagen triple helix is the most abundant protein in the human body.

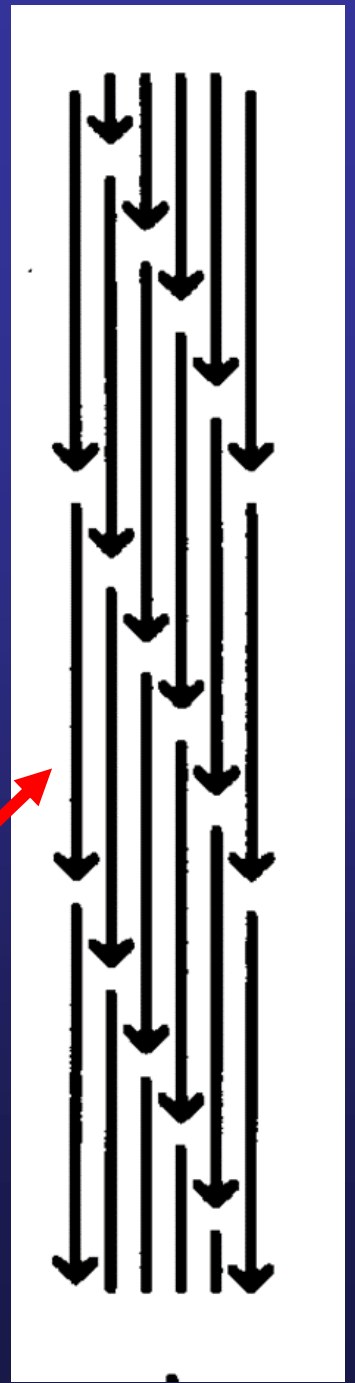
Much of the human body is crystalline.

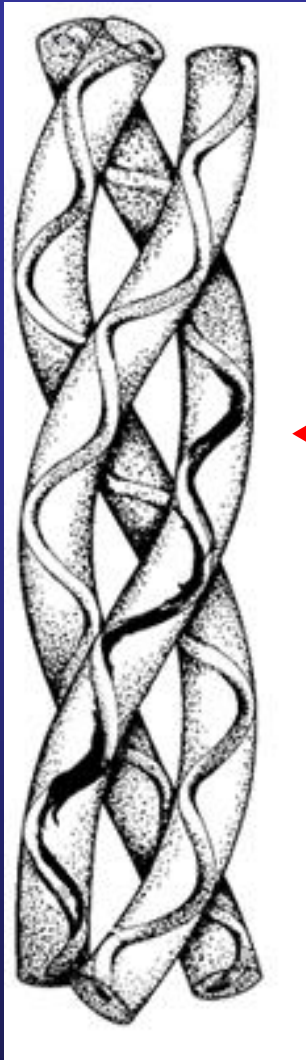


collagen protein

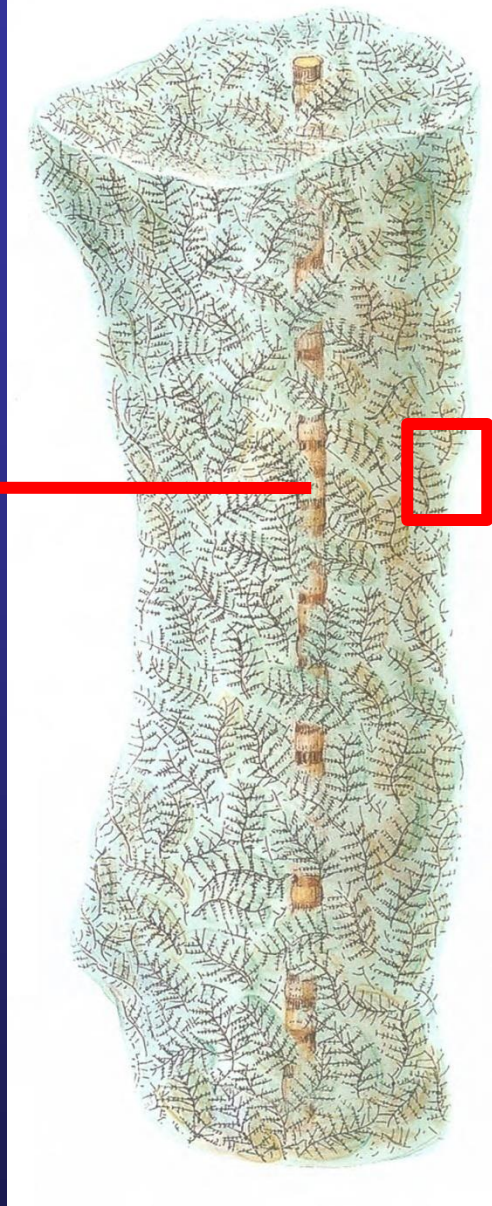
hydration shell

crystalline
arrangement

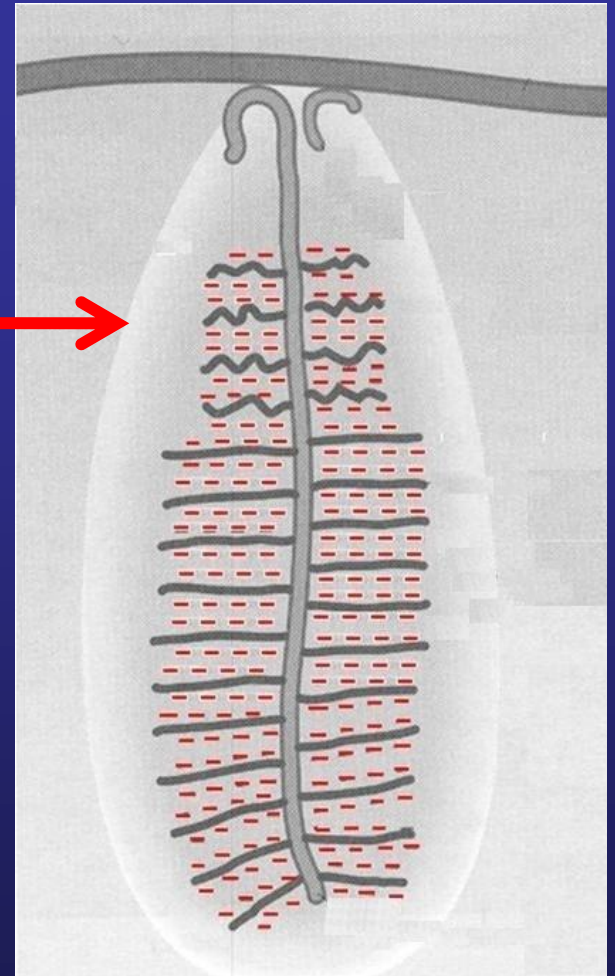




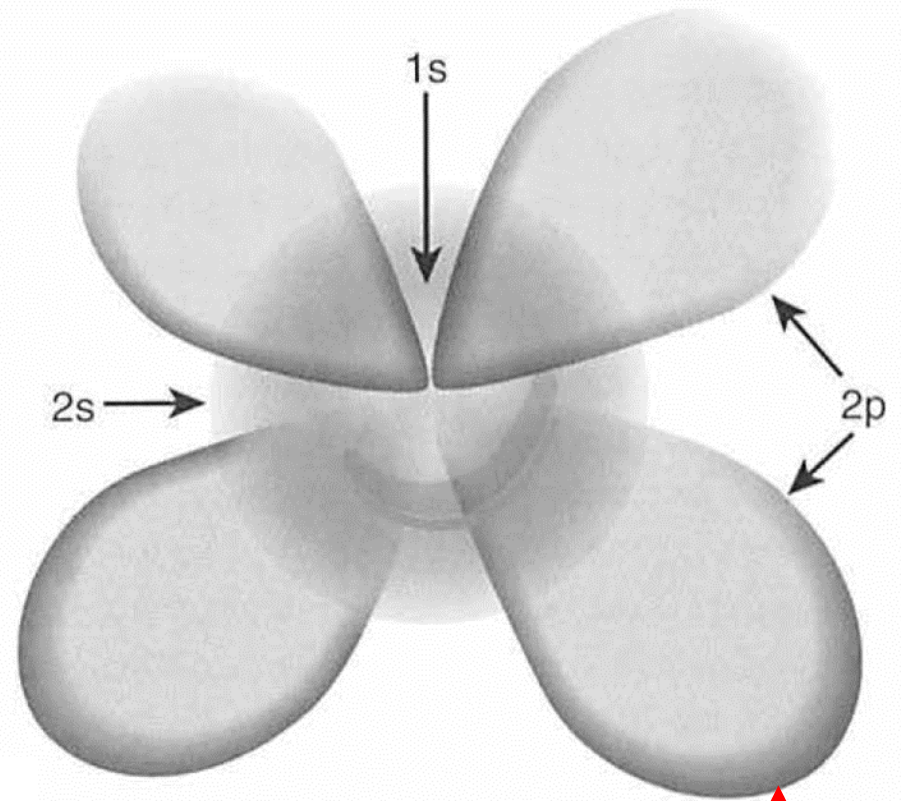
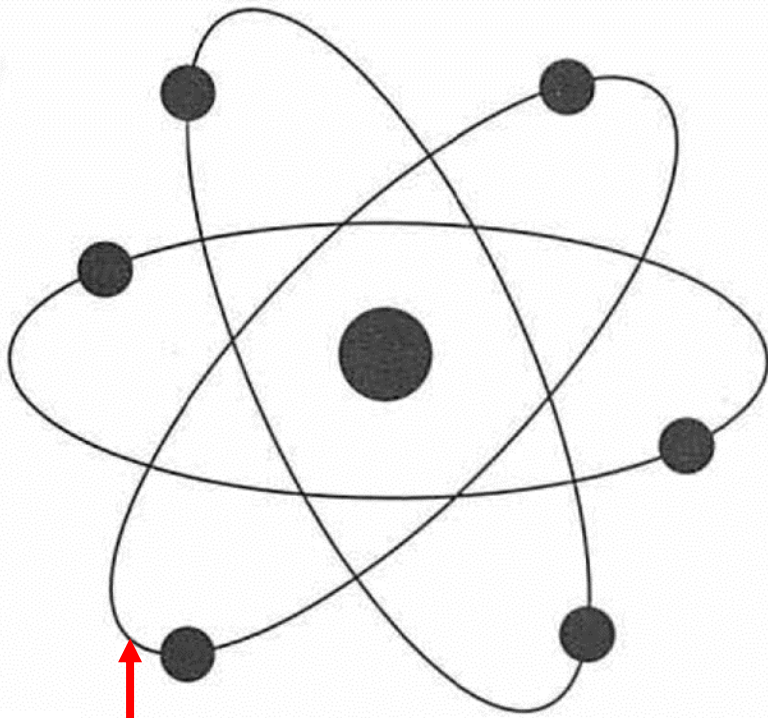
collagen triple helix:
a hydrated
semiconductor



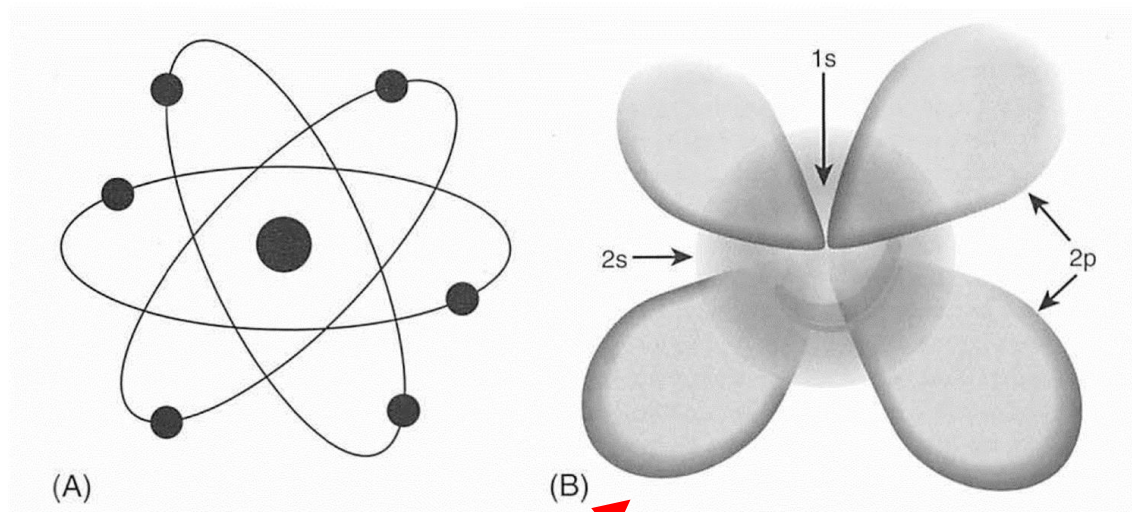
connective tissue:
a composite
material



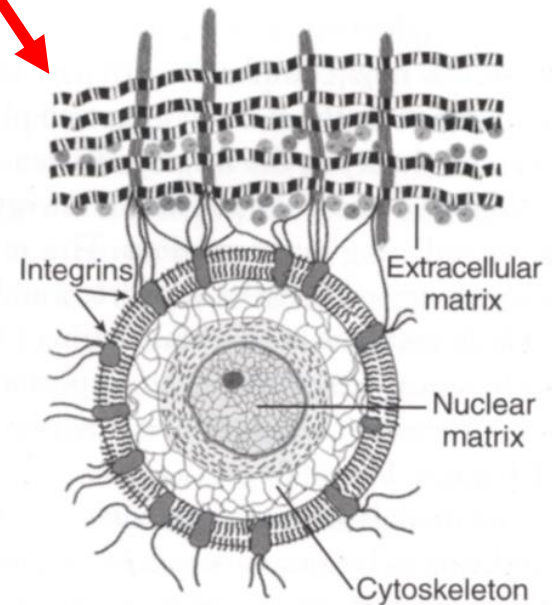
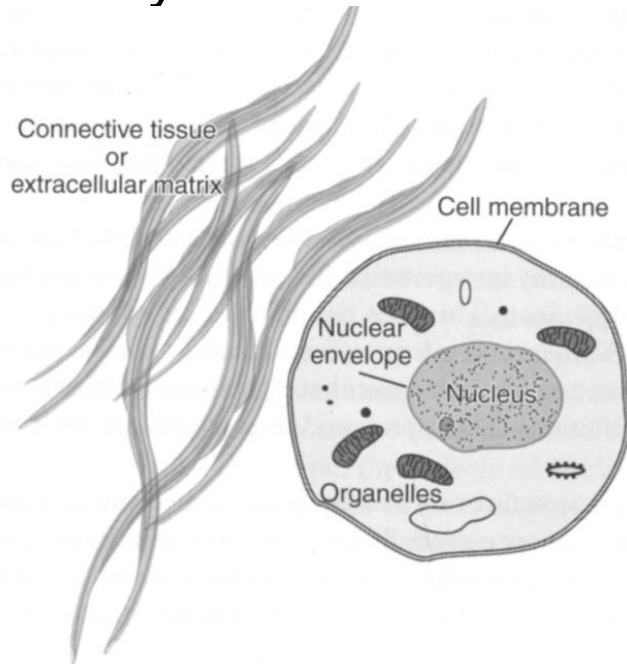
ground substance:
an electron
reservoir



Left, old orbital view of the atom. Right
modern view of the atom:
Orbits have been replaced with orbitals.



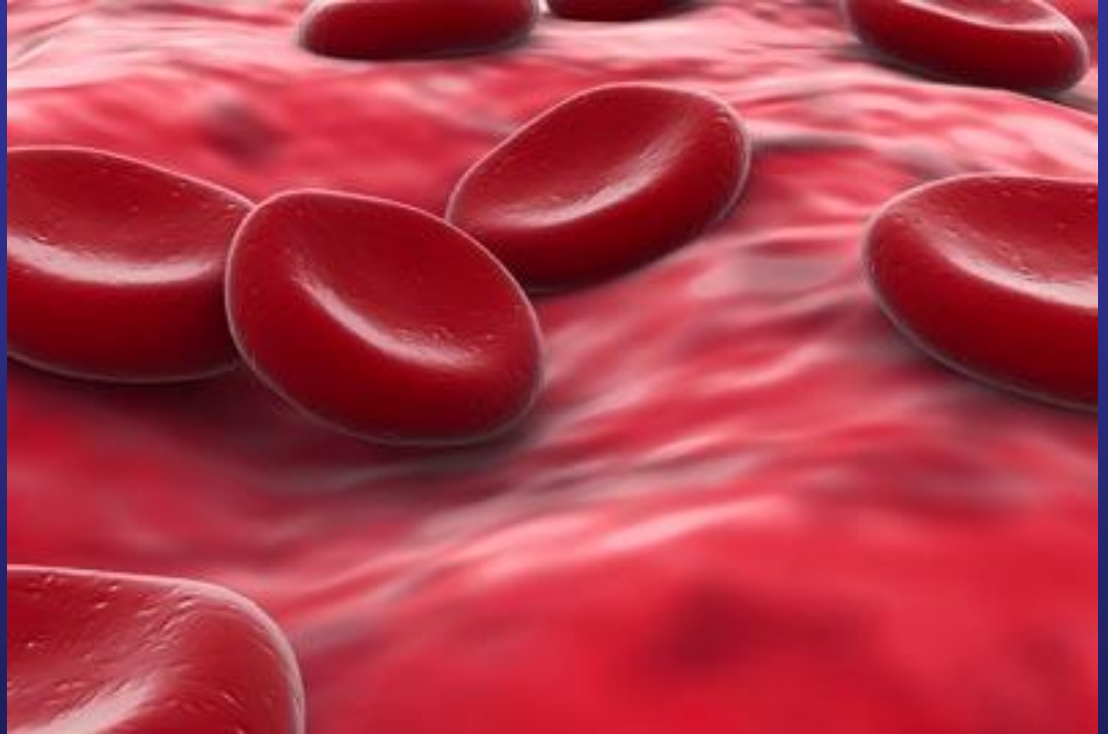
When you visualize atoms or cells, use these images.



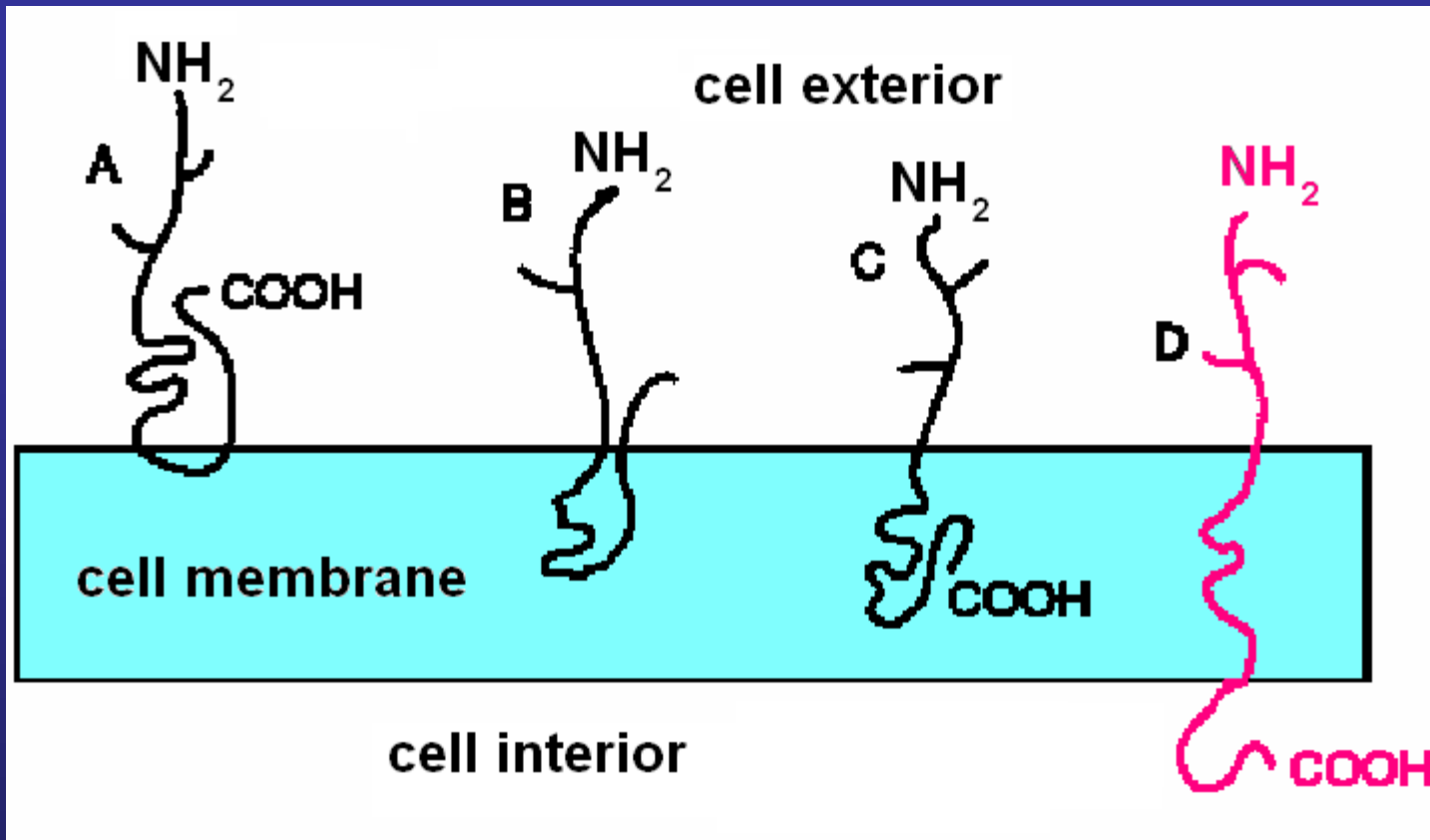
A profound discovery by Mark Bretscher



Medical Research Council
Laboratory of Molecular Biology
Hills Road
Cambridge CB2 2QH, UK

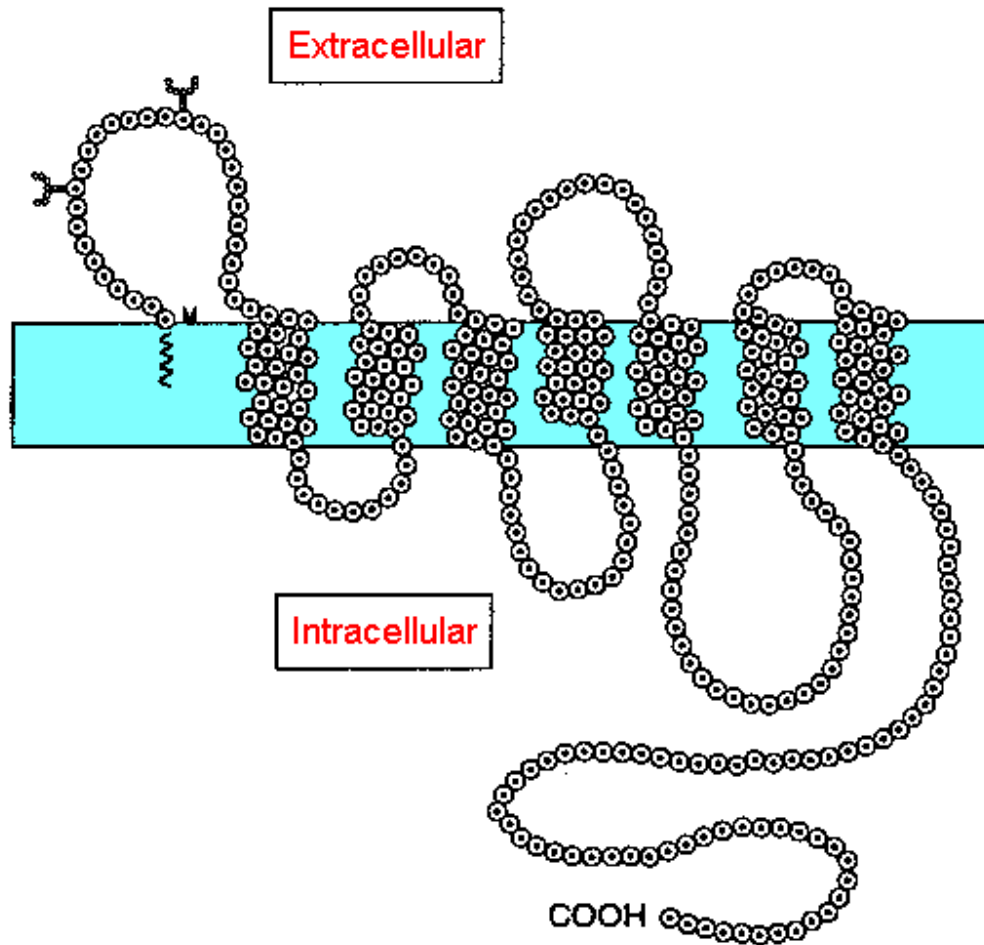


Red blood cells

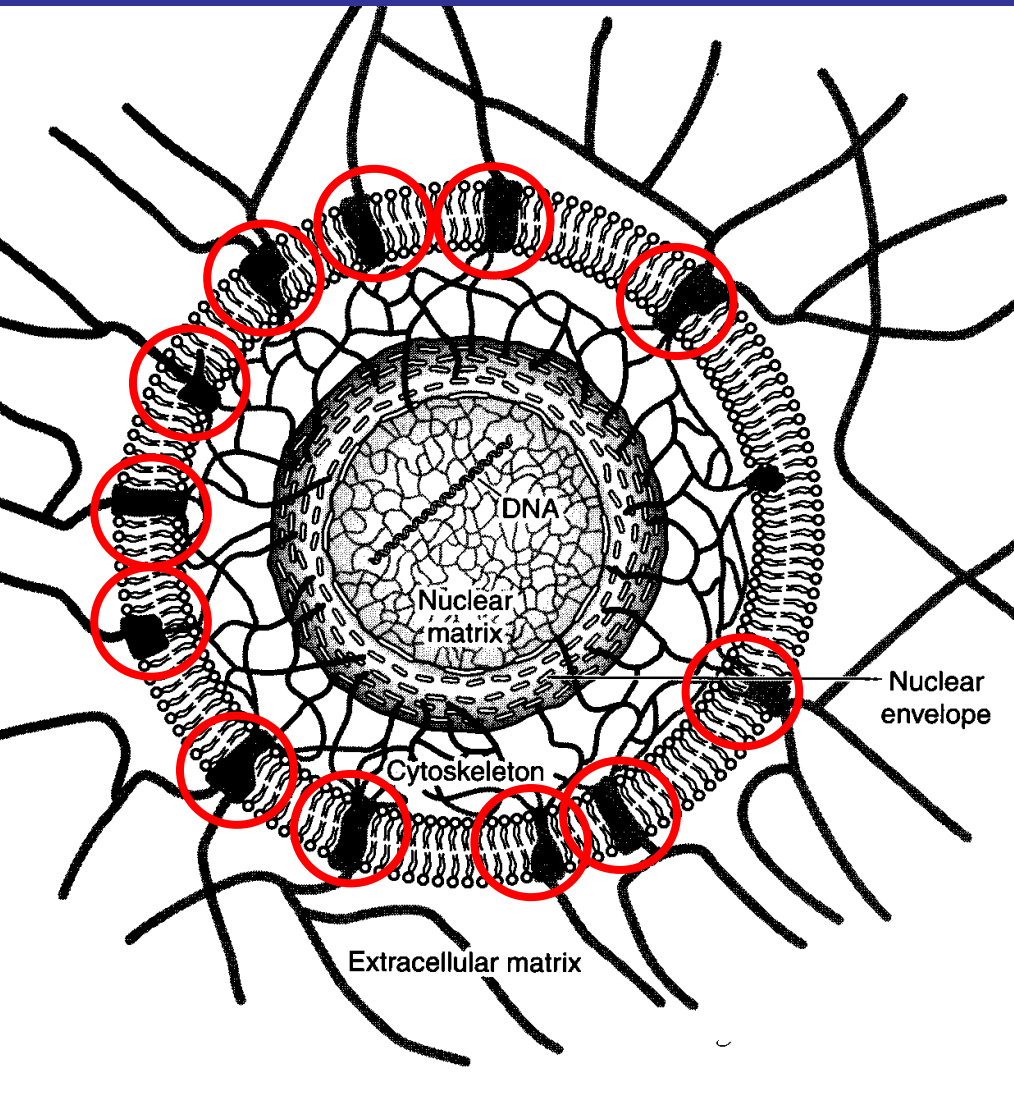


A major protein which spans the human erythrocyte membrane.
J. Mol. Biol., 59, 351-357 (1971).

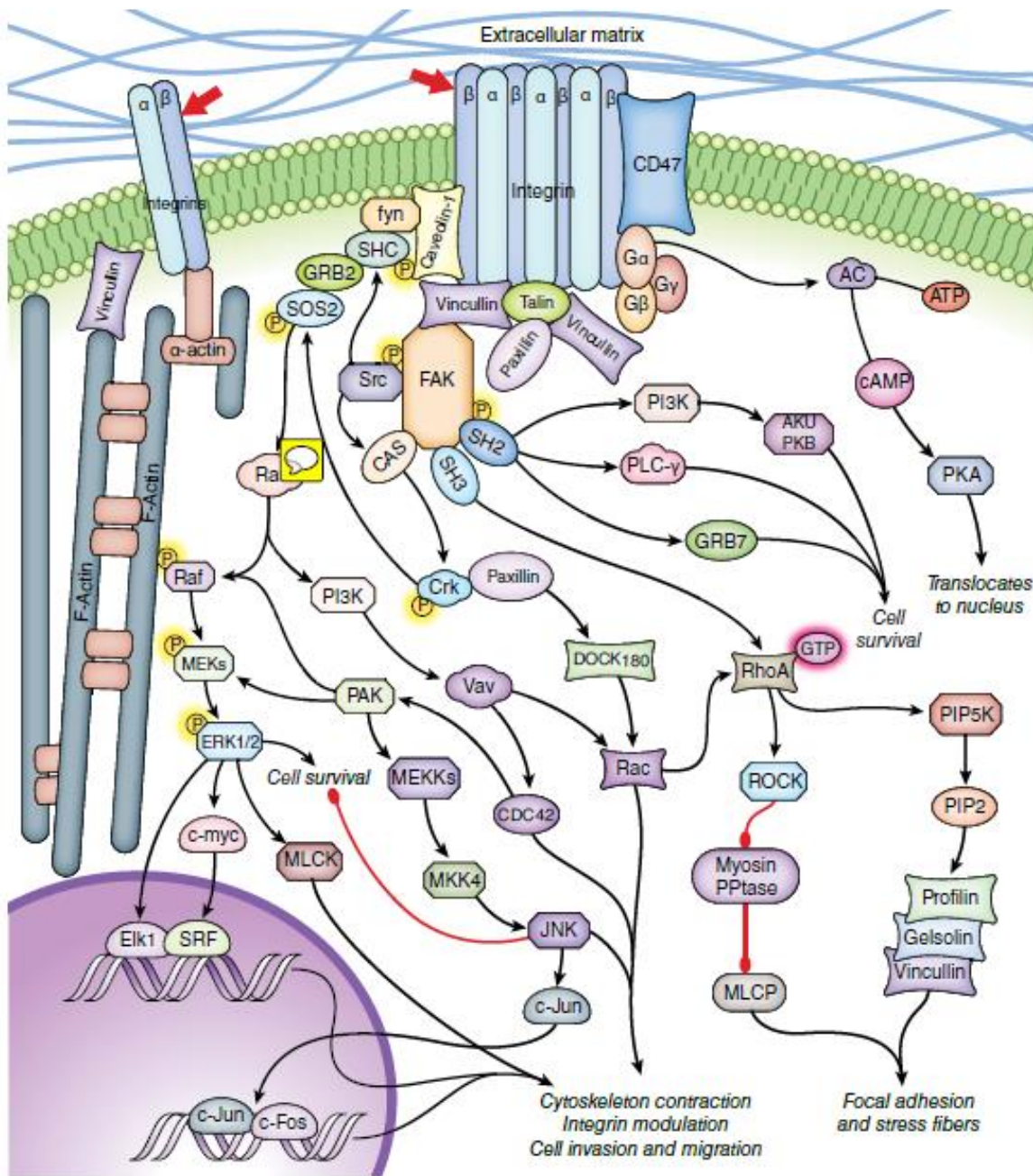
Major human erythrocyte glycoprotein spans the cell membrane.
Nature New Biology, 231, 229-232 (1971).



It was soon discovered that Bretscher was right, many cells have proteins extending from one side to another. This protein crosses the membrane 7 times.



Important molecules called integrins link the cellular matrix with the extra-cellular matrix and with all of the connective tissues. The extracellular matrix is “hard-wired” to the cytoskeleton and nuclear matrix. The links are both mechanical and energetic.



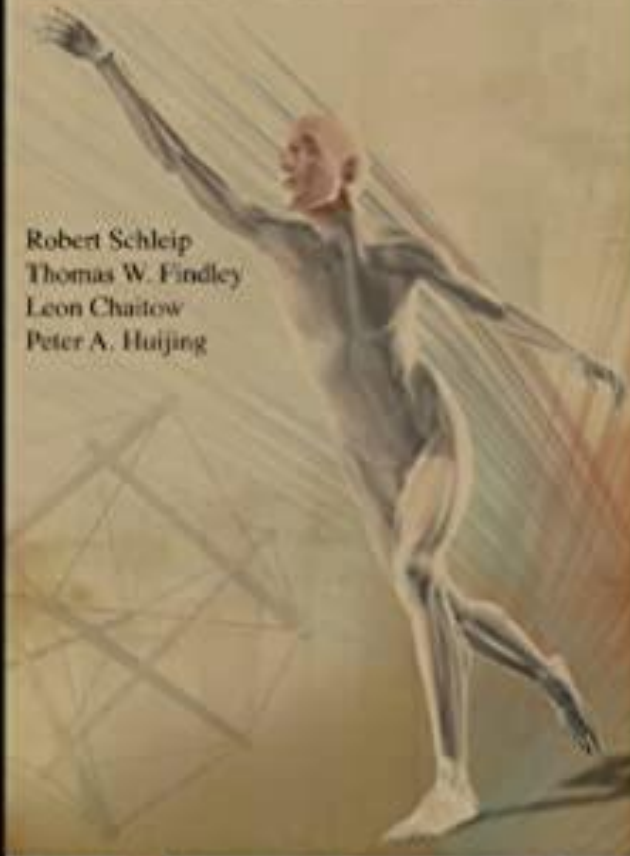
Biochemists
have
discovered an
intricate
network of
molecules
related to the
integrins.

Fascia

CHURCHILL
LIVINGSTONE
2000

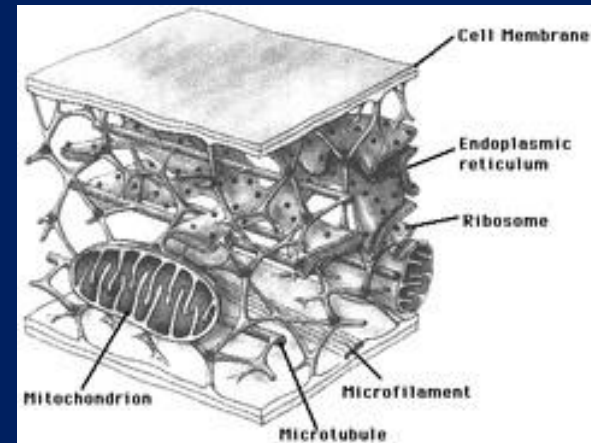
THE TENSIONAL NETWORK OF THE HUMAN BODY

Robert Schleip
Thomas W. Findley
Leon Chaitow
Peter A. Huijing



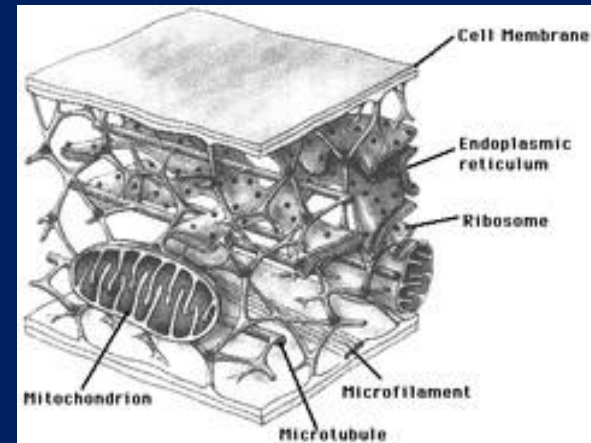
Chapter 2.5
Fascia as a body-wide
communication system.

James L Oschman

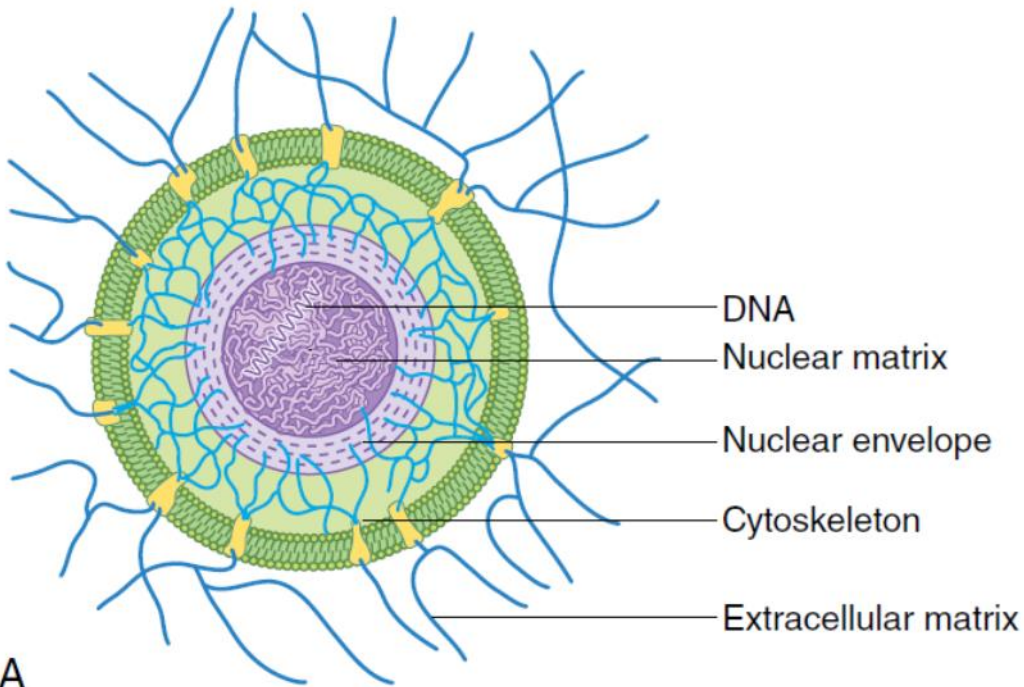


A single-celled paramecium swims gracefully, avoids predators, finds food, mates, and has sex, all without a single synapse. “Of nerve there is no trace. But the cell framework, the cytoskeleton might serve.”

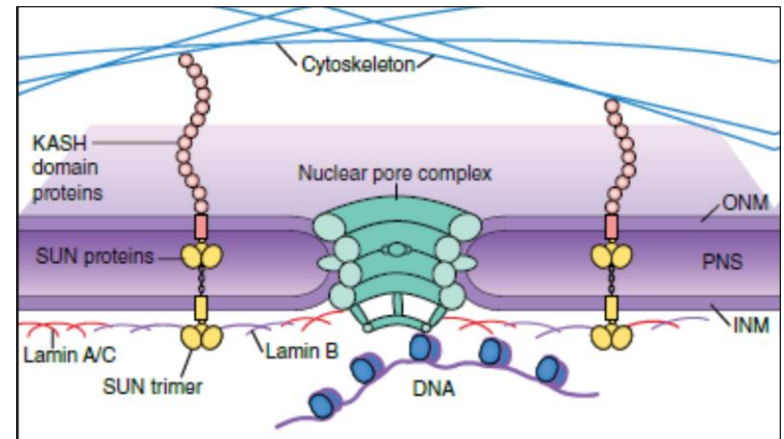
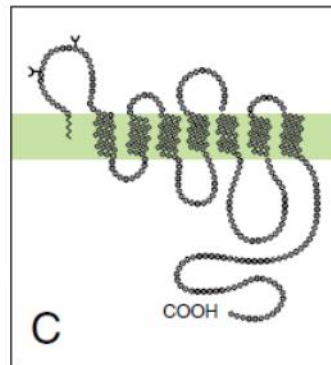
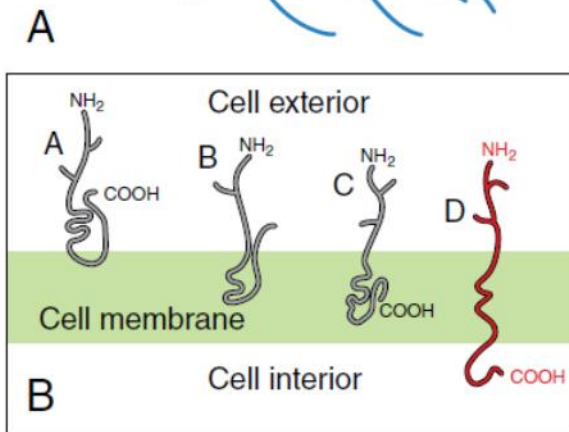
~Sherrington, 1951

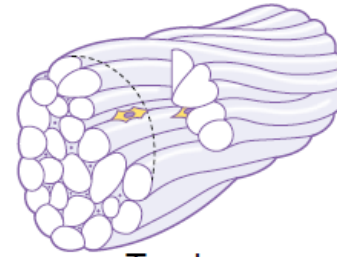
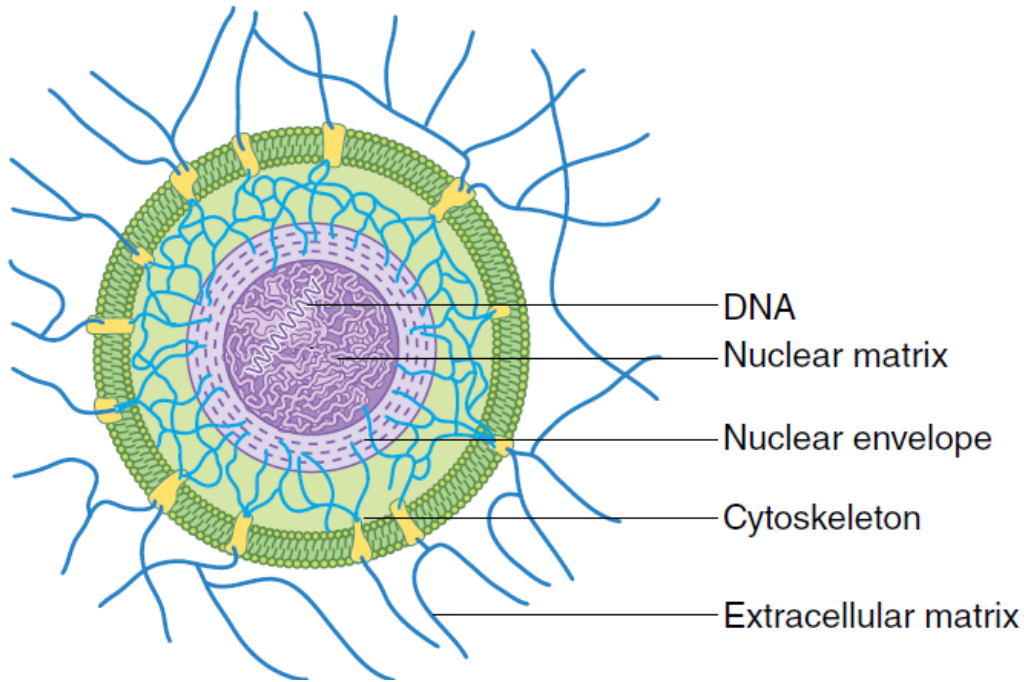


When we think of communication in the human body, we usually first think of nerves and synapses. The purpose of the Sherrington quotation is to remind us of the existence of evolutionarily ancient communication systems that are present in single celled organisms that are entirely lacking in nerves or synapses.

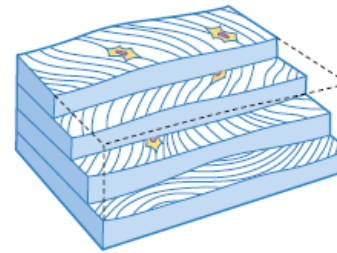


Integrins – Mark Bretscher

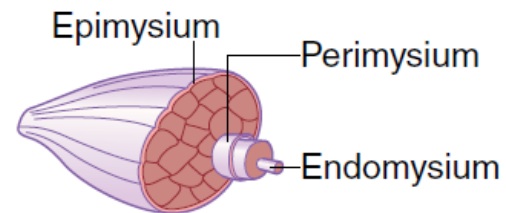




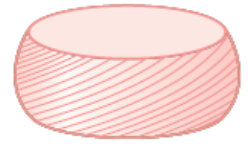
Tendon



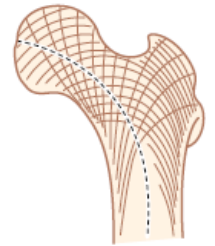
Ligament



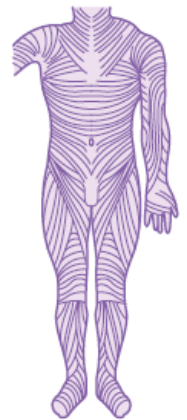
Myofascia



Cartilage

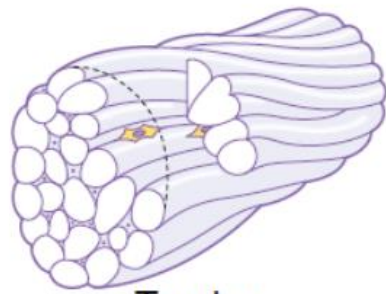


Bone

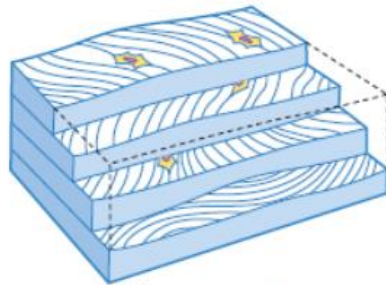


Superficial
fascia

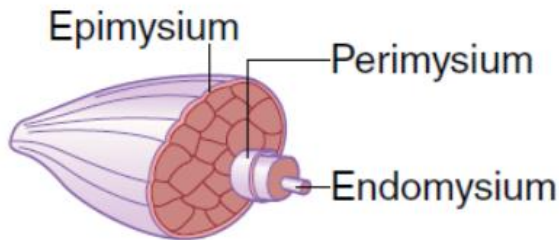
The living matrix



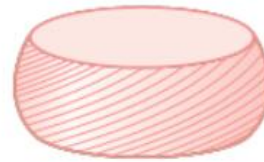
Tendon



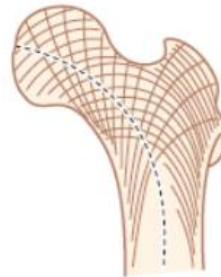
Ligament



Myofascia



Cartilage



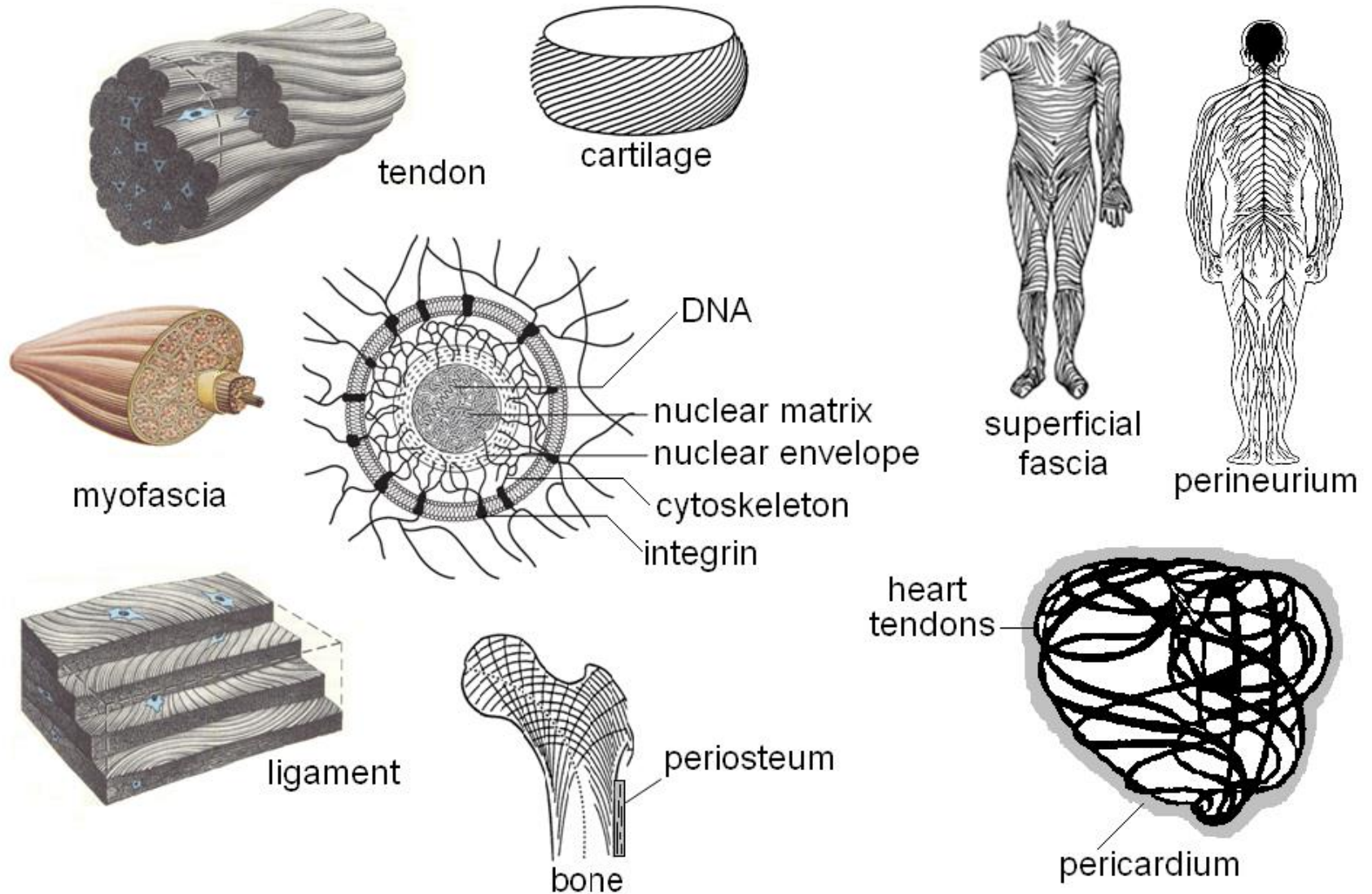
Bone

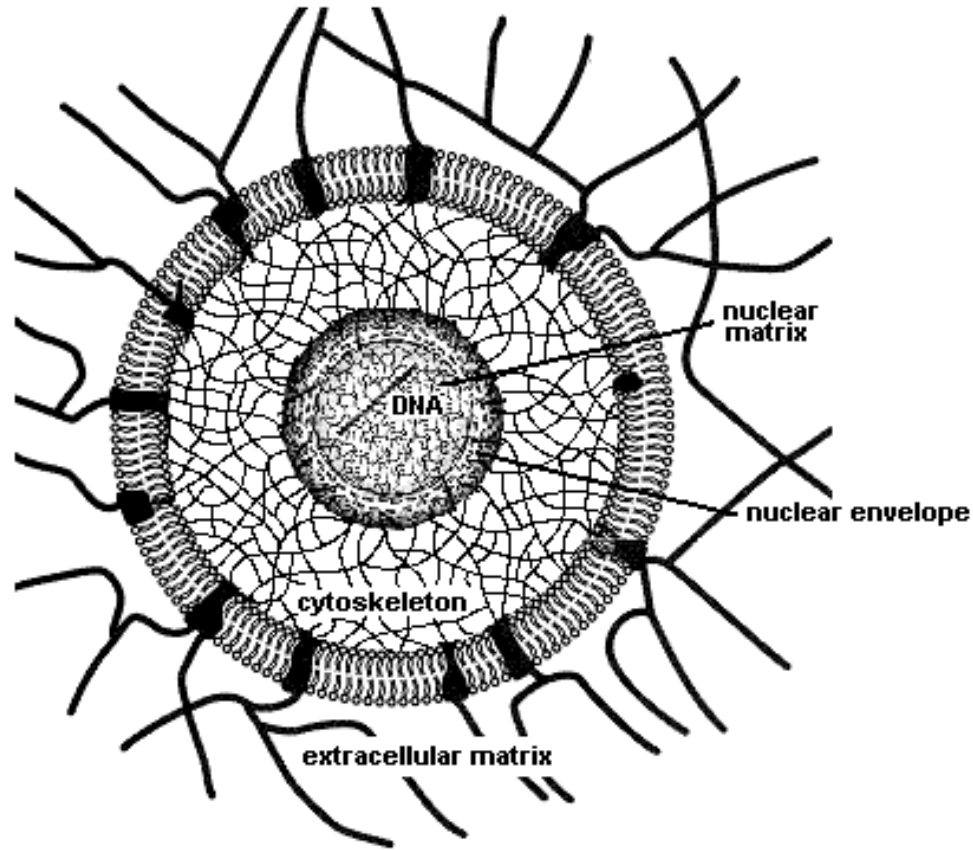


Superficial
fascia

Fascia –
the only system
in the body that
touches all of
the other
systems.

We call the whole system *the living matrix*.

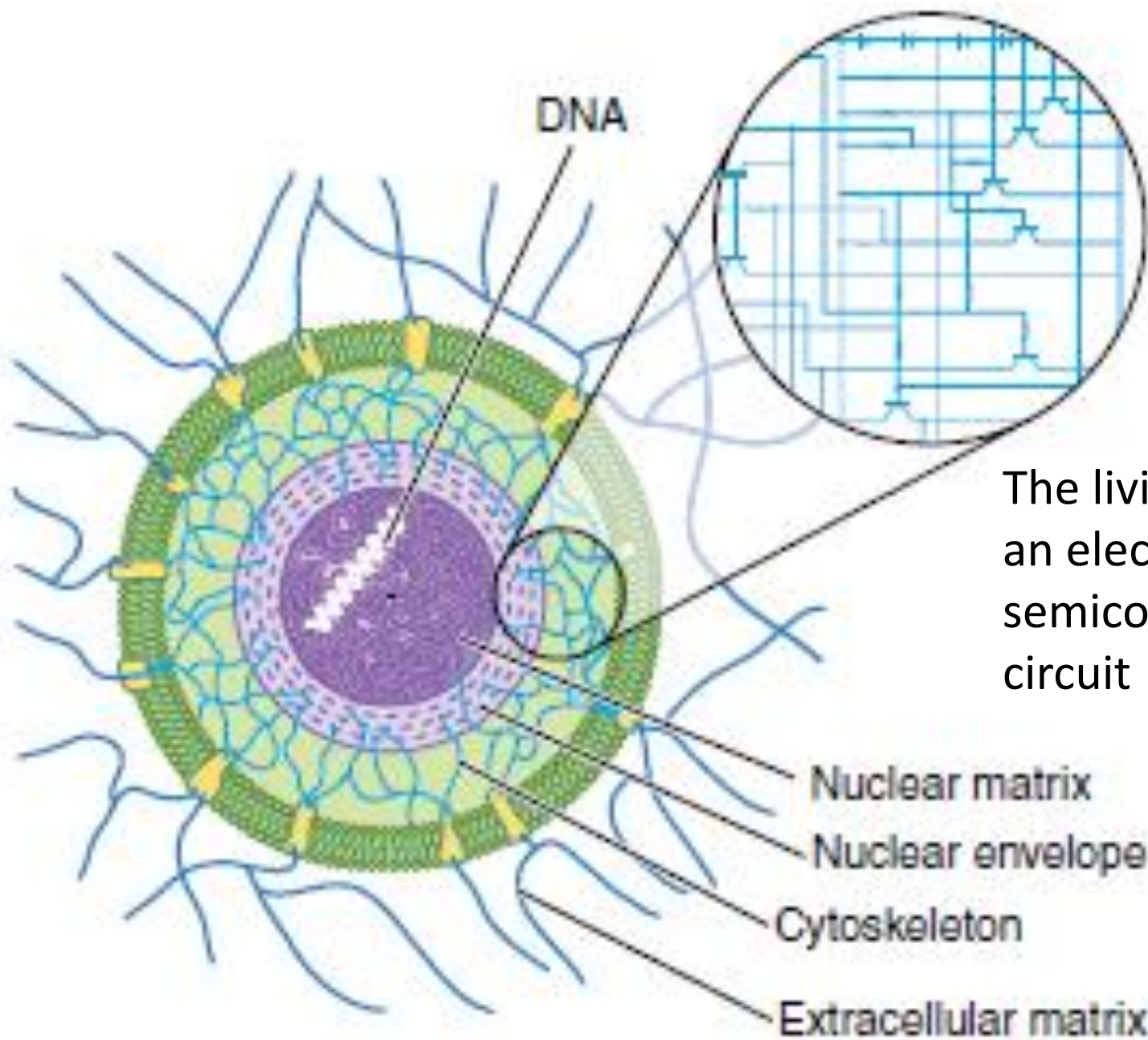




The Living Matrix

“No matter what your modality may be, you cannot interact with a body without engaging the living matrix. It is simply everywhere.”

~Deane Juhan



68th Annual
Conference
on Light and
Vision
St. Louis,
MO
May 1, 2000

In Memoriam

Dr. John Searfoss

January 3, 1949 – May 10, 2000



Dr. John Searfoss (left) receiving the 2000 Spitler Award
From Dr. Charlie Butts (right) with the following inscription;

*"Presented to John Searfoss
for original and important contributions
in Instrumentation, Methodology, Research, and Teaching in Phototherapy."*

EXPLORING THE BIOLOGY OF PHOTOTHERAPY

By James L. Oschman, Ph.D.

This essay is affectionately dedicated to the memory of John Searfoss, O.D., a distinguished pioneer in phototherapy and a very warm and enthusiastic colleague.

There exists a relationship which is largely predictable between light frequency, environment, and the restoration of health following departures from normal, which are still within the physiologic limits....

H.R. Spitler, M.D., O.D.

Dr. Spitler's observation that, within limits, health can be restored with specific light frequencies, poses a profound biological question: How can light "jump start" the healing process for a wide range of clinical problems, involving tissues throughout the body? An answer to this question would obviously have much medical significance.

Gottlieb, discussing the research of Tiina Karu in Russia, states the problem this way:

How does light find the right places to work to heal the body? Normal tissue is much less affected by light than out-of-balance tissue. Starving cells are far more sensitive than well-fed ones.¹

Recent research is beginning to answer this question. This essay summarizes relevant discoveries and then follows a light stimulus through the network within the body to the places where structure and function have been compromised. The goal is a logical explanation of how the appropriate application of light can reach and benefit any part and any process in the organism.

UNSOLVED PROBLEMS

Modern biomedical research has achieved many milestones, and

given us crisp images of our internal structure and physiology. In spite of this, a number of important theoretical and clinical problems remain virtually untouched. Our academic struggles and our intellectual myopias stem from our basic approach, which is to take the organism to pieces and study the parts, one-by-one. While much has been learned this way, there is a tendency to lose sight of the big picture. There is a tendency to focus on phenomena that are easy to study or measure, leaving more difficult areas unexplored. And textbook explanations are often taken as complete answers, even though they are not.

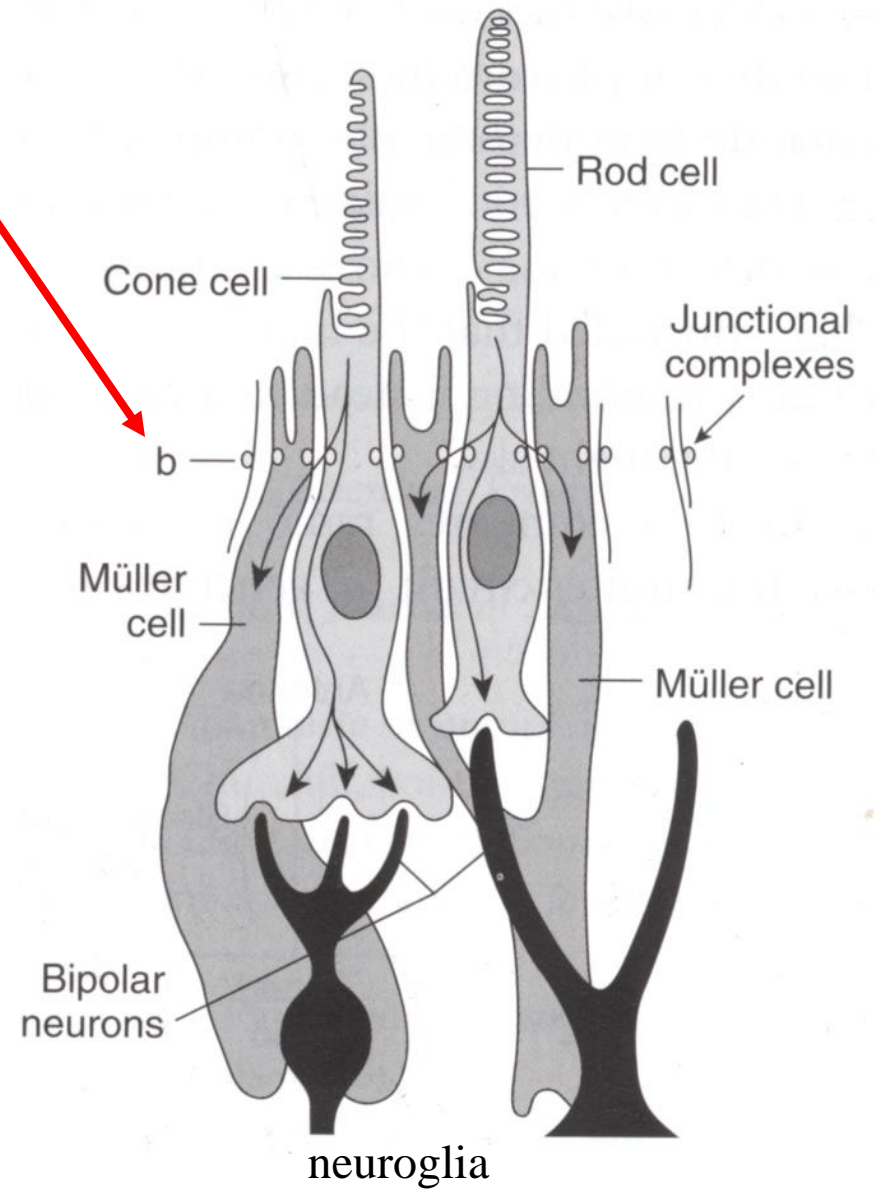
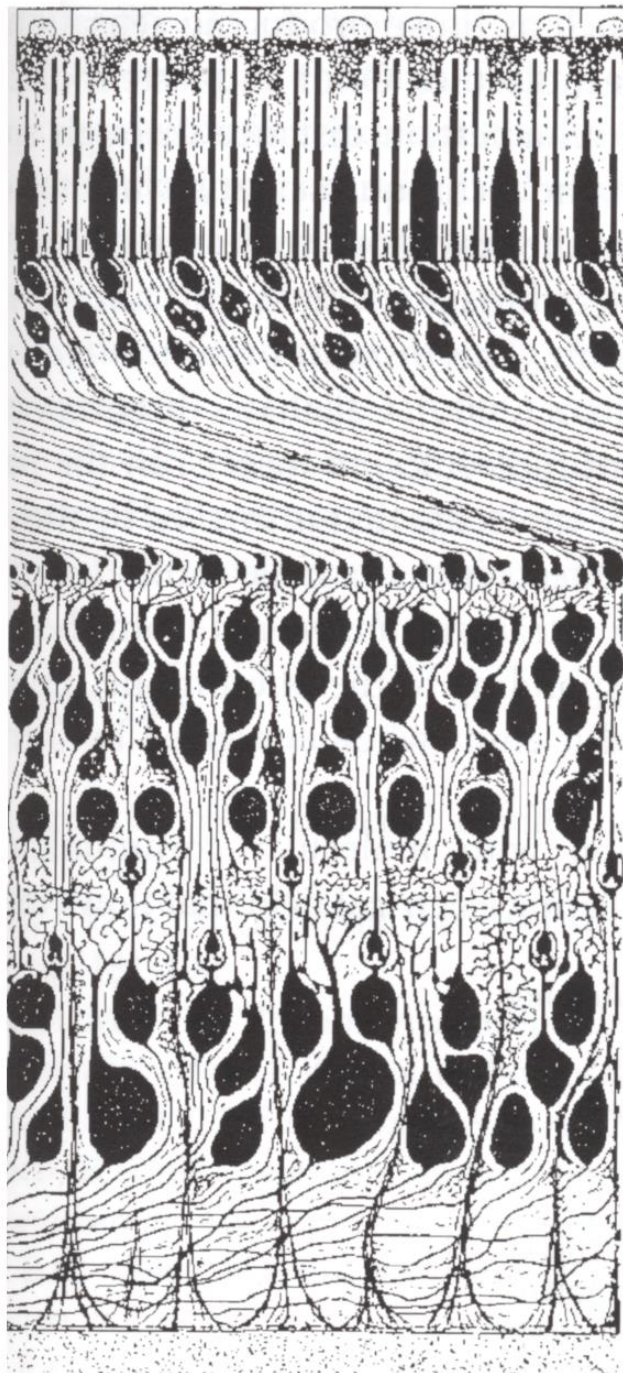
Research on consciousness is a good model for discussing whole-system inquiries such as ours, because simplistic and reductionistic hypotheses have only led to limited progress. Models of consciousness are also of interest to phototherapists who observe beneficial behavioral or psychological changes in their clients. Of key importance is the realization that what we have referred to as *mind* and *body* are one and the same, indistinguishable, inseparable, intertwined. The idea that mind and body are *connected* is erroneous and misleading. It is impossible to

connect something to itself. While we might agree on this point, it is only recently that we have begun to understand its real significance.

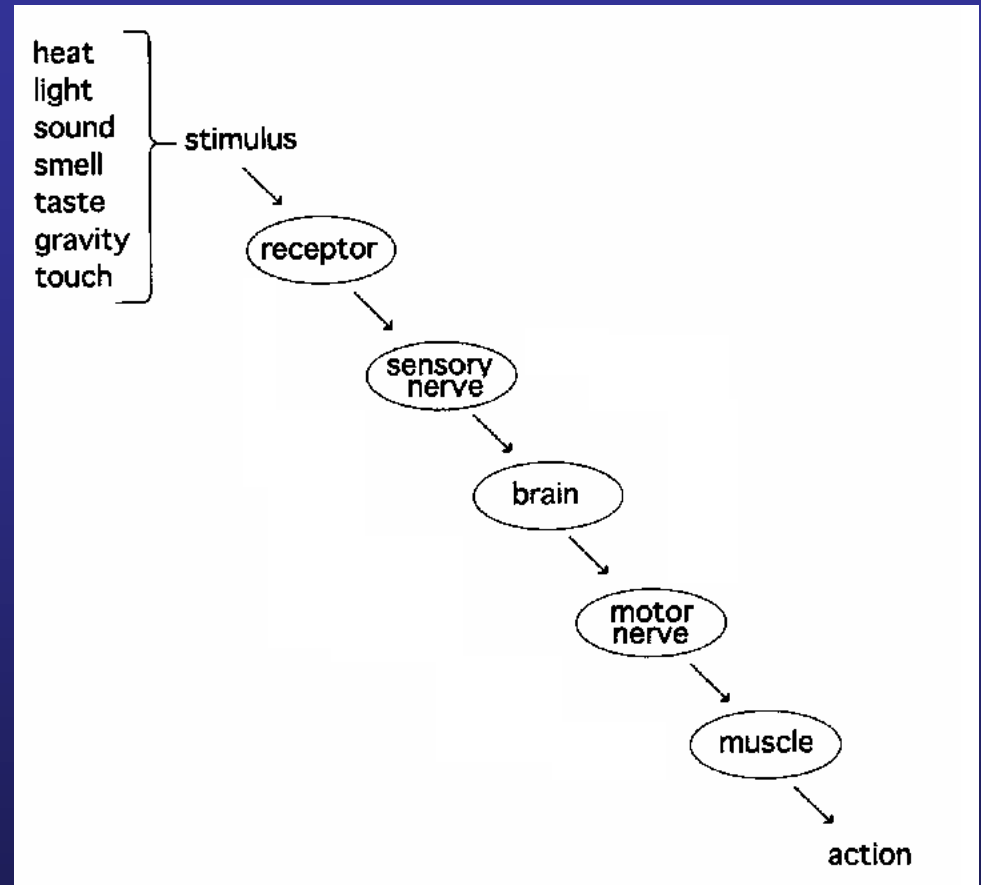
In terms of phototherapies, the eye is obviously the window to the brain. It has therefore seemed logical to focus on neurophysiological models as a basis for phototherapy. But the nervous system actually plays only minor roles in injury repair and defense against disease. The real actors are cells and the medium in which they reside, the connective tissues.

Our obsession with the brain and neurons has been addressed brilliantly and concisely in a recent paper by Stuart Hameroff: *The neuron doctrine is an insult to neurons.²*

The neuron doctrine, currently in vogue, is based on the assumption that brain = mind = computer. This view leaves us almost completely ignorant about how the brain produces mental life. The expectation is that consciousness emerges at some critical level of computational complexity in the self-organizing networks of synaptically connected neurons. However, there are no testable predictions arising from such an emergence model. We can only wait for consciousness to happen.



Our entire perception of the world, and our reaction to that world completely depend on our ability to sense and utilize the energies within and around us.



heat
light
sound
smell
taste
gravity
touch

stimulus

receptor

sensory
nerve

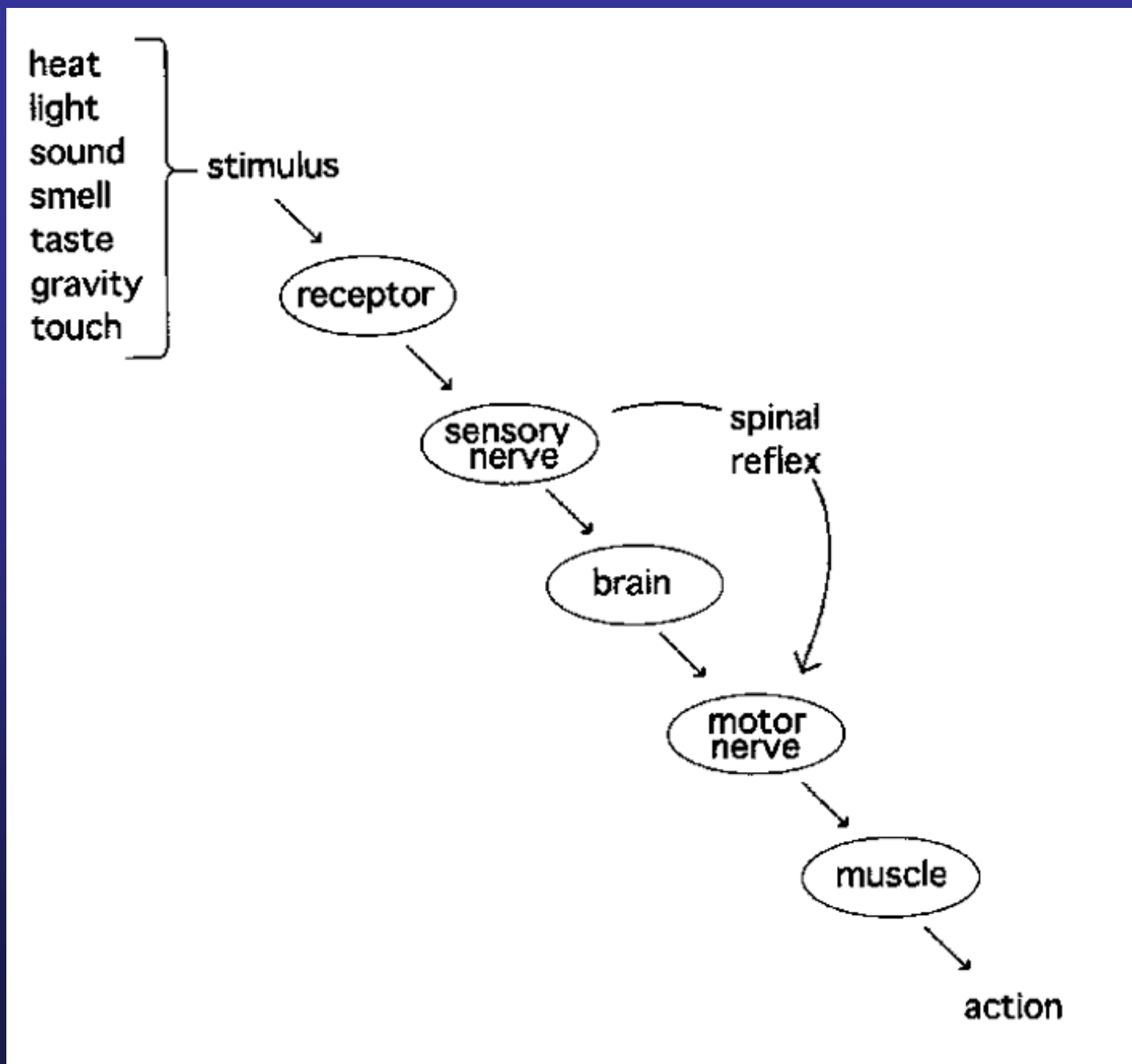
brain

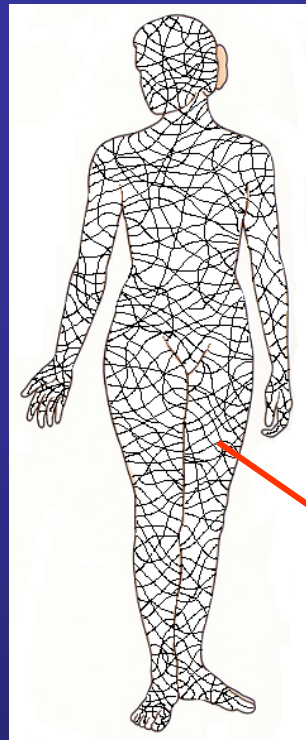
motor
nerve

muscle

action

spinal
reflex





heat
light
sound
smell
taste
gravity
touch

stimulus

receptor

sensory
nerve

brain

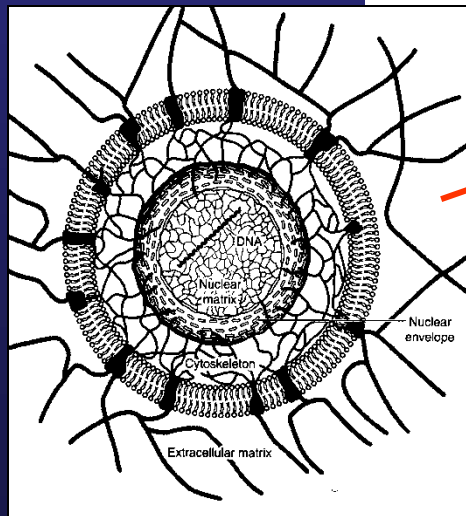
spinal
reflex

motor
nerve

muscle

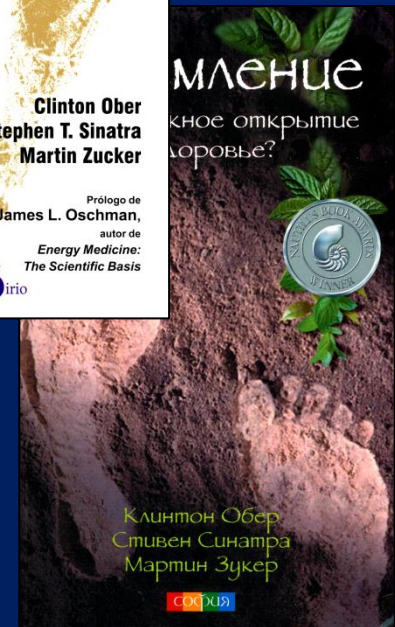
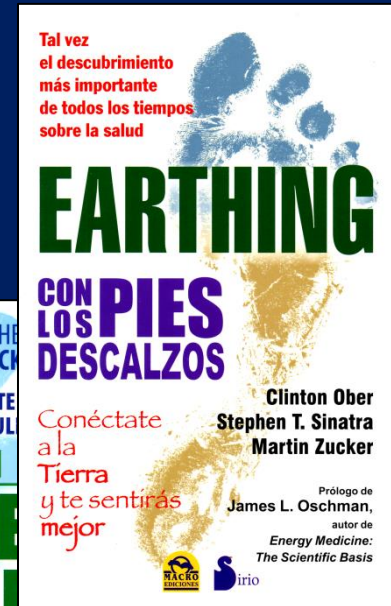
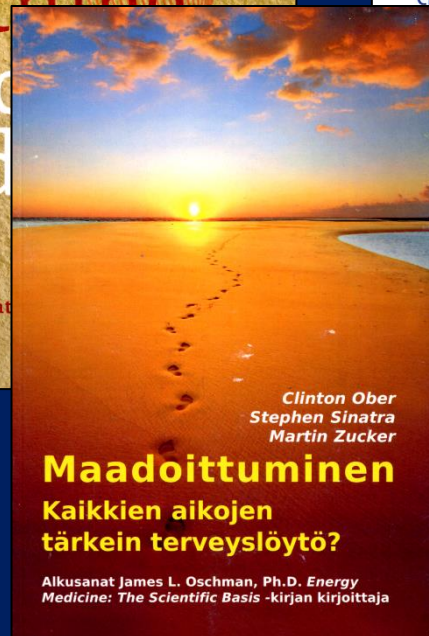
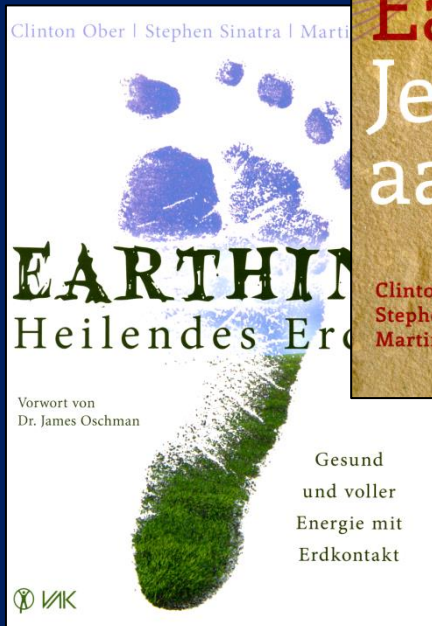
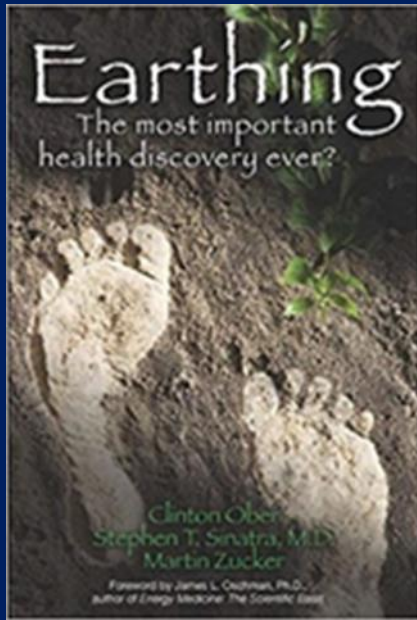
action

Continuum
Pathway



Demonstration of electron mobility in the body: Earthing or Grounding

The Earthing book has been translated into a dozen languages. Millions of people around the world now know about earthing. Their feedback has been incredible.



Aches & Pains
Acne
Allergies
Arthritis
Asthma
Atrial Fibrillation
Autism
Autoimmune Disease
Backache
Burns
Babies
Preemies
Groggy Child
Bursitis
Cardiovascular Diseases
Cellulite
Chronic Fatigue
Colic
COPD
Depression
Electromagnetic Sensitivity
Eye Strain
Hair Growth
Headaches
Heart Failure
High Blood Pressure
Hospital Stay
Indigestion /IBS/
Injury Repair
Insomnia
Jet-Lag
Knee Pain
Leg Spasms
Lyme Disease

lyme Disease
Meditation
Menopause / Hot Flashes Flashes
Migraines
Mood
Multiple Sclerosis
Panic Attacks
Parkinson's Disease
Pets
Pets' Fears
Plantar Fasciitis
PTSD
Pregnancy
PVCs
Prostate Enlargement
Prosthesis Arthritis
Psoriasis
Repetitive Strain Injury
Restless Leg Syndrome
Rheumatoid Arthritis
Seizures/Convulsions
Sex
Skeptical?
Sleep Apnea / Snoring
Spinal Issues
Stress
Surgery
Tattoos
Teeth
Thyroid Problems
Tinnitus
Varicose Veins
Vertigo
Weight Loss

SUMMARY
OF FEEDBACK:
conditions that
are relieved by
Earthing.

Award-winning documentary:

Watch on YouTube:

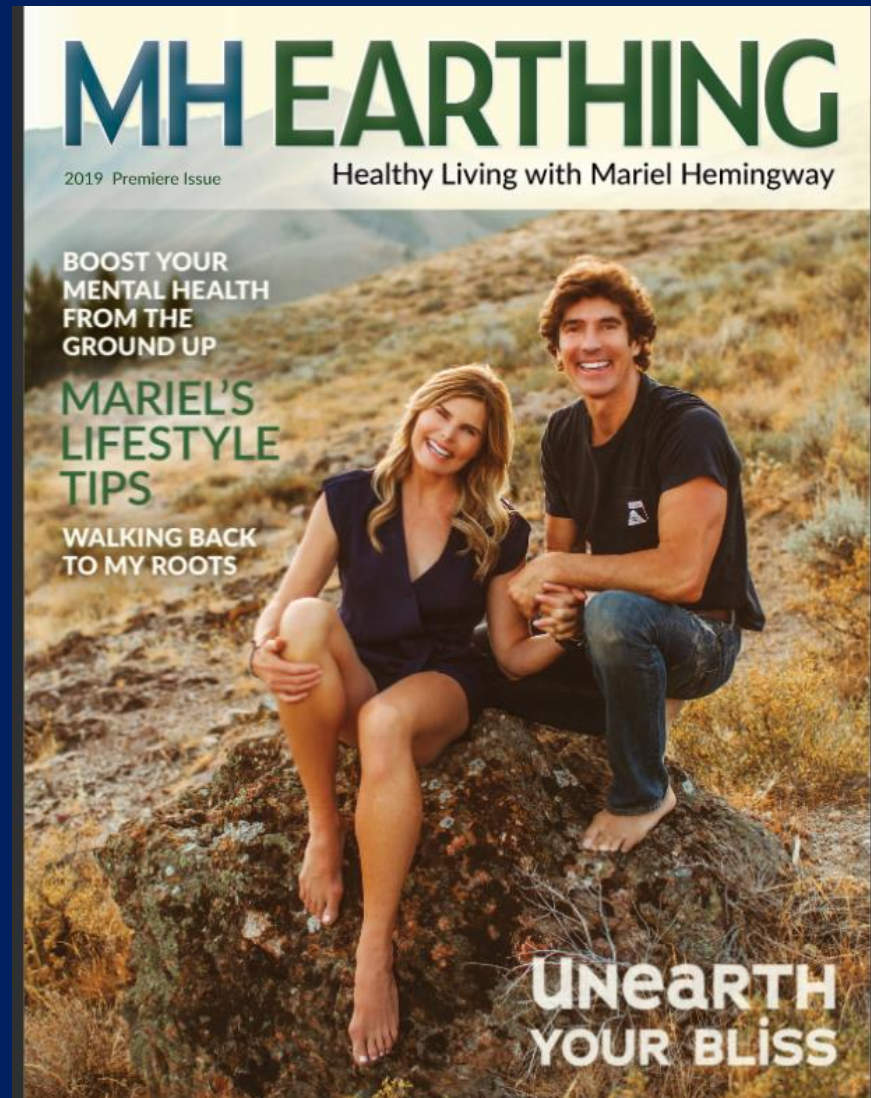
<http://bit.ly/EarthingMovieYouTube>

Or

Watch on Vimeo:

<http://bit.ly/EarthingMovieVimeo>

A magazine:



<https://indd.adobe.com/view/20df926a-746d-4466-b21e-7536b7e29598>



How can something so fun and simple
correct so many disorders?

Update on grounding or earthing:



Dr. Paul Ridker and colleagues at Harvard Medical School reported that a sensitive marker for inflammation, known as Hs-CRP, is a risk factor for cardiovascular disease, the number one killer world-wide.

Scientists all over the world measured CRP in relation to many different chronic diseases. It was soon discovered that inflammation is the cause of virtually **every** chronic health condition.

Lack of earthing may result in a deficiency disease.

Our Covid-19 Story



Short Communication

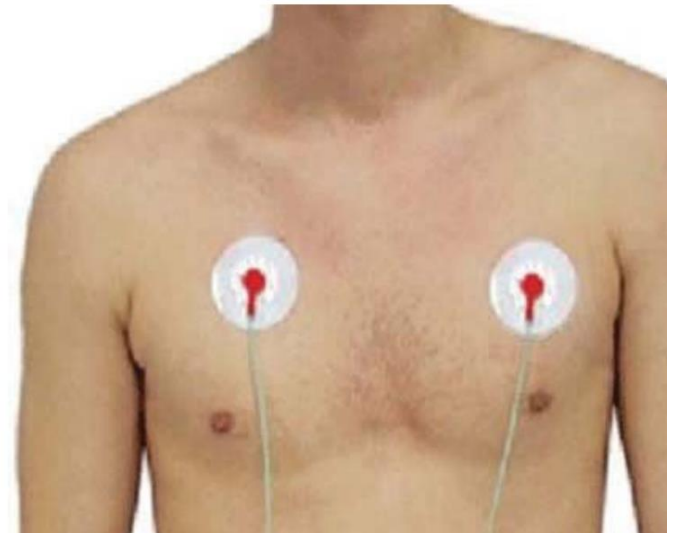
Prevention and/or recovery from corona virus infections

Clinton Ober and James L Oschman*

Earthing Institute and Nature's Own Research Association, USA

Published: 03 August 2020

This article describes a novel intervention that is extremely easy and science-based: Earthing or electrically grounding your body to the Earth.



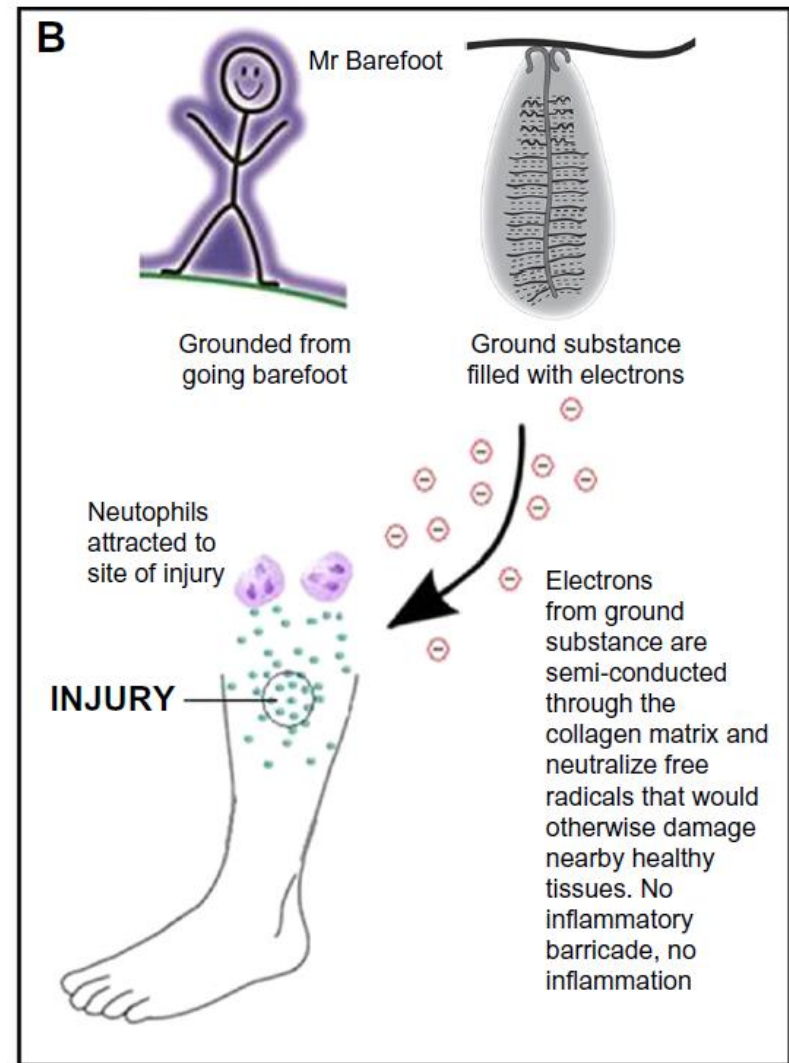
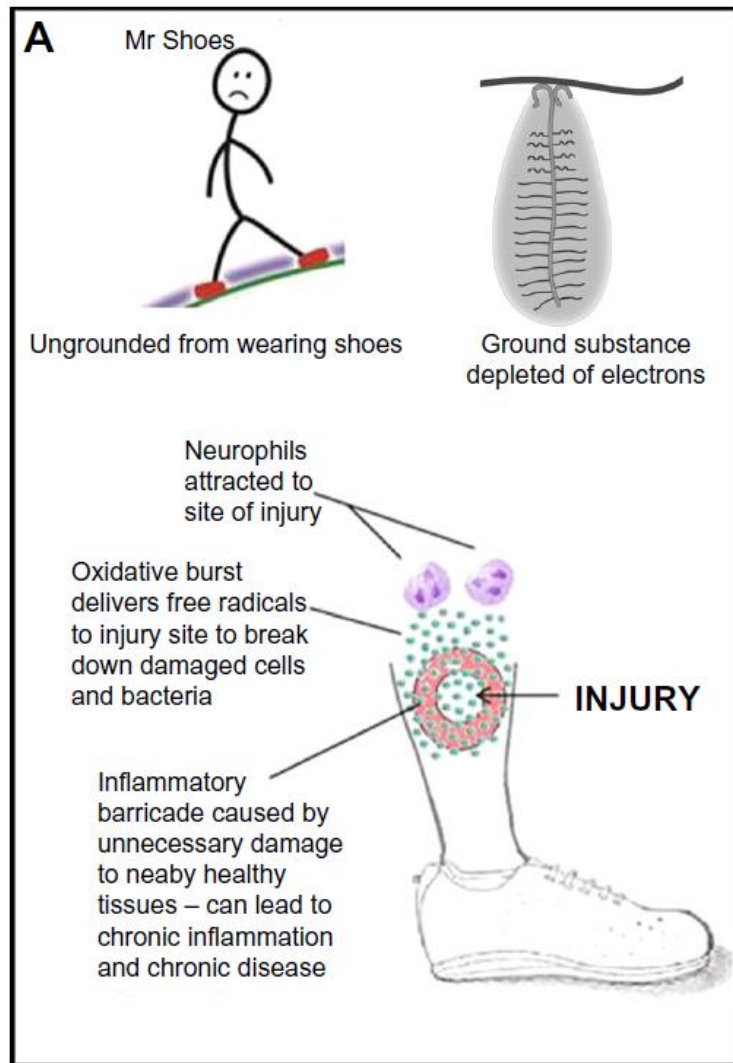
Fast relief from severe respiratory distress simply by placing grounding patches over each lung. Wires plug into ground port of the electrical system.

<https://dx.doi.org/10.17352/ijcem.000048>

Our article was based on the observation that earthing is very effective for other respiratory ailments such as asthma and Chronic Obstructive Pulmonary Disease (COPD):

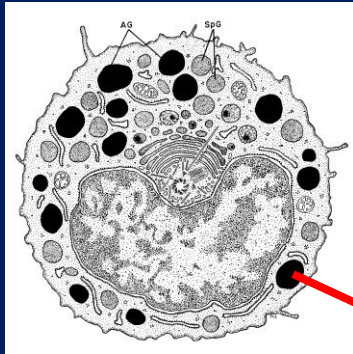
The effects of grounding (earthing) on inflammation, the immune response, wound healing, and prevention and treatment of chronic inflammatory and autoimmune diseases

James L Oschman
Gaétan Chevalier
Richard Brown



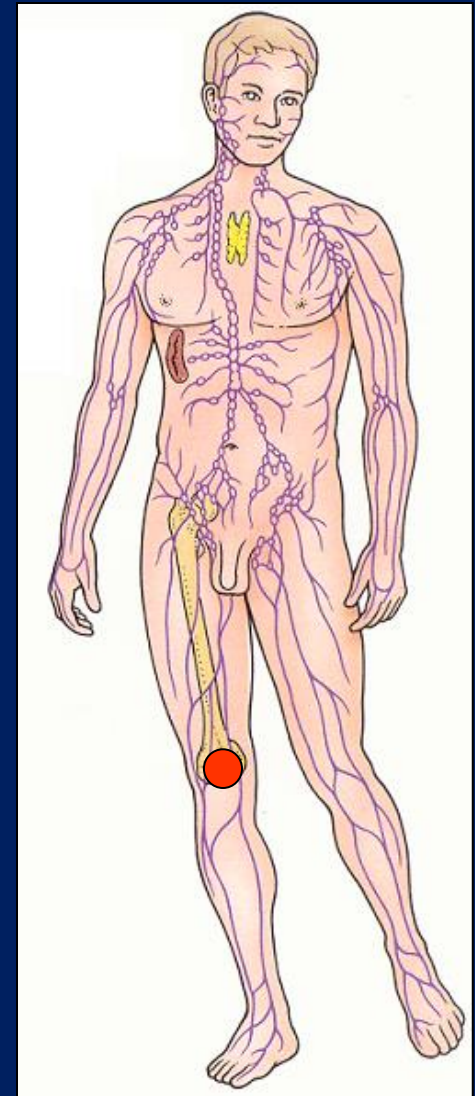
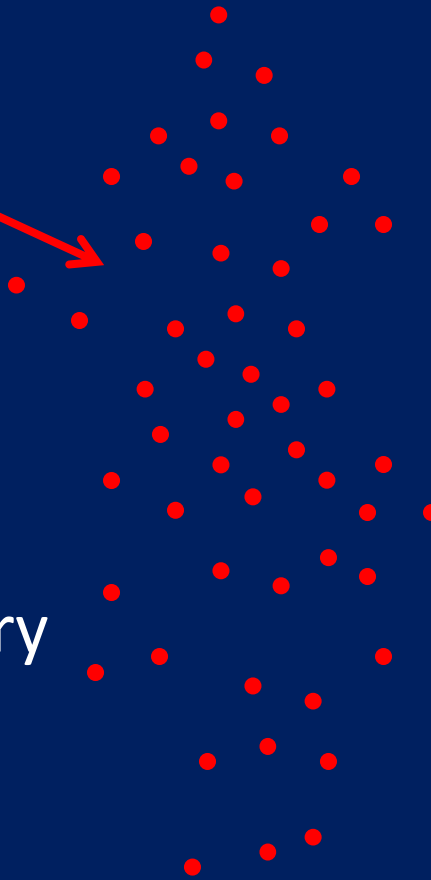
A. Mr. Shoes has a different response to injury because his electron stores are empty. Free radicals leak into surrounding healthy tissue creating collateral damage which coagulates into an inflammatory barricade. B. Mr. Barefoot has abundant electrons which neutralize free radicals before they can produce collateral damage.

The inflammation hypothesis:



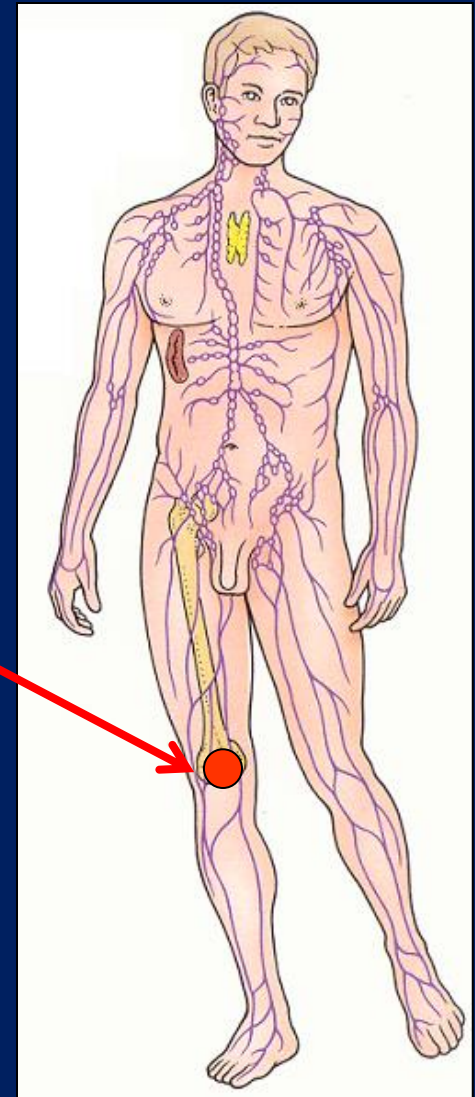
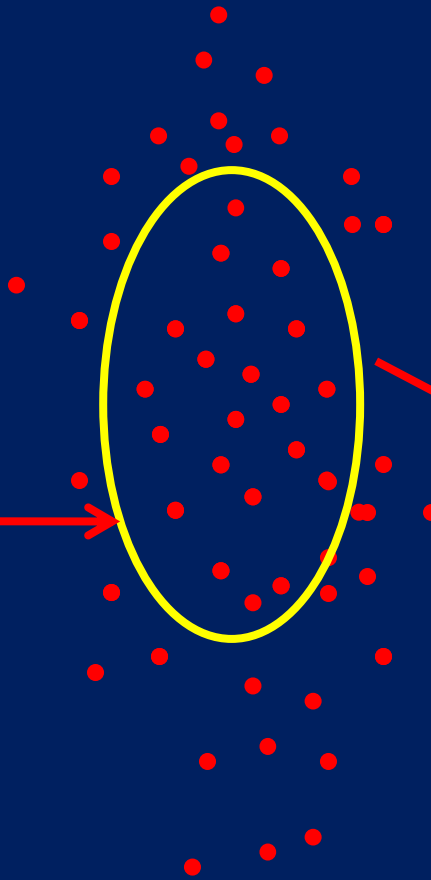
neutrophil

In the oxidative burst, neutrophils deliver free radicals to the site of injury to destroy bacteria and damaged cells.



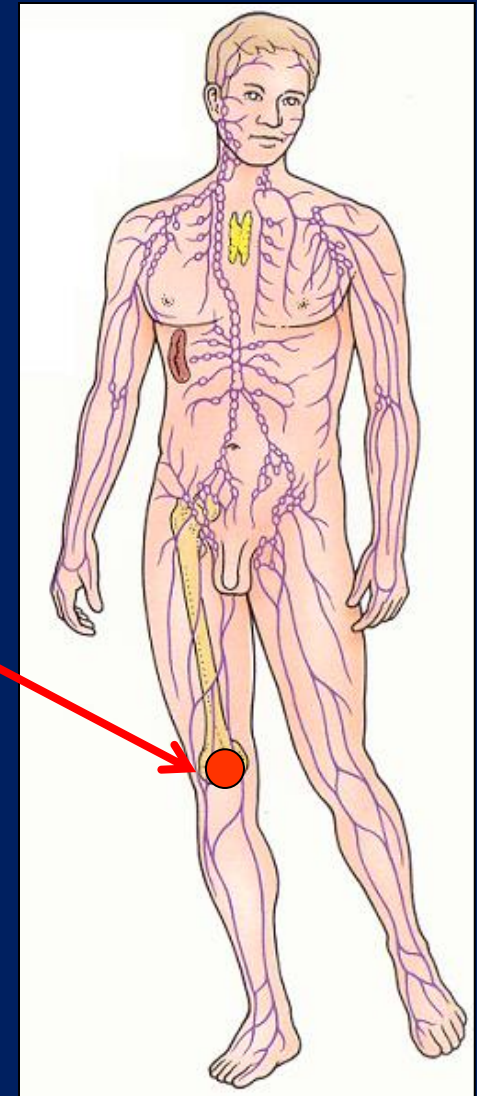
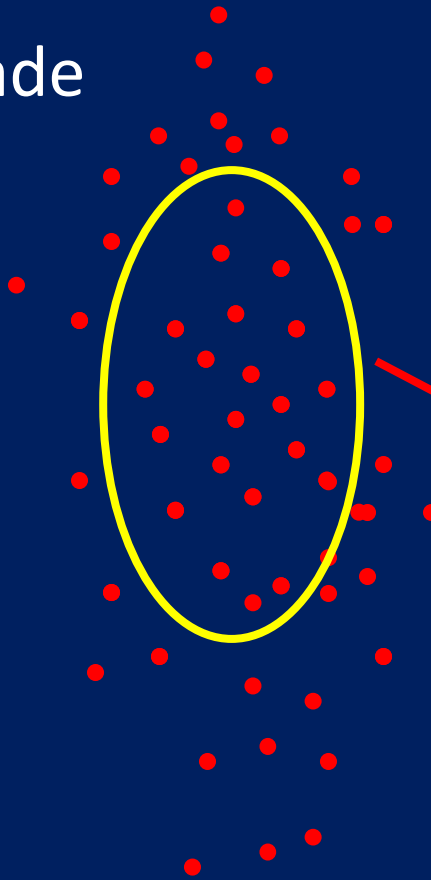
The inflammation hypothesis:

Some of the free radicals attack the surrounding tissues and damage healthy cells. The resulting debris coagulates to form an inflammatory barricade.

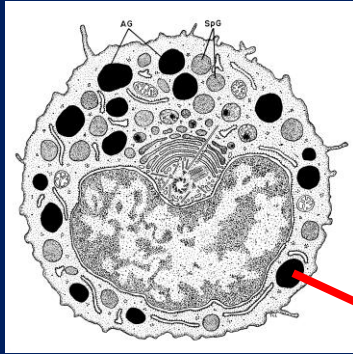


The inflammation hypothesis:

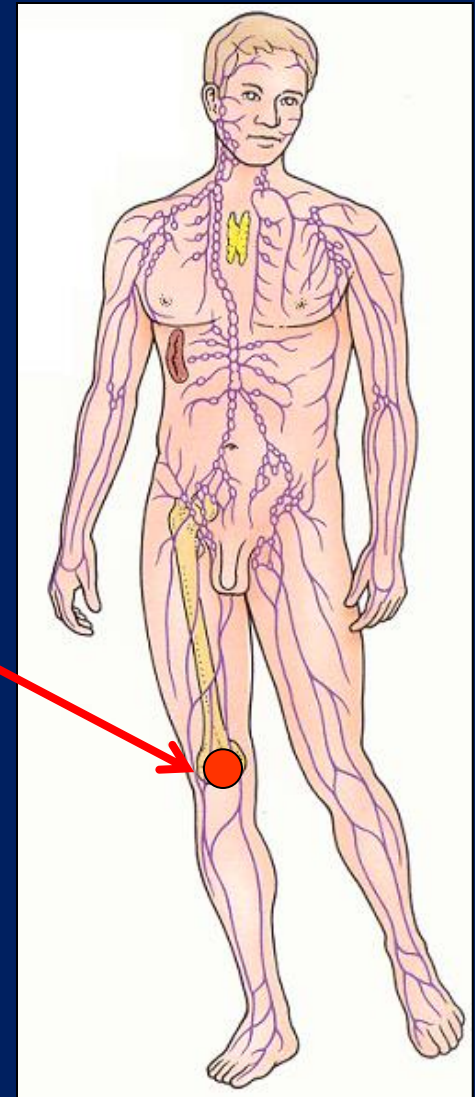
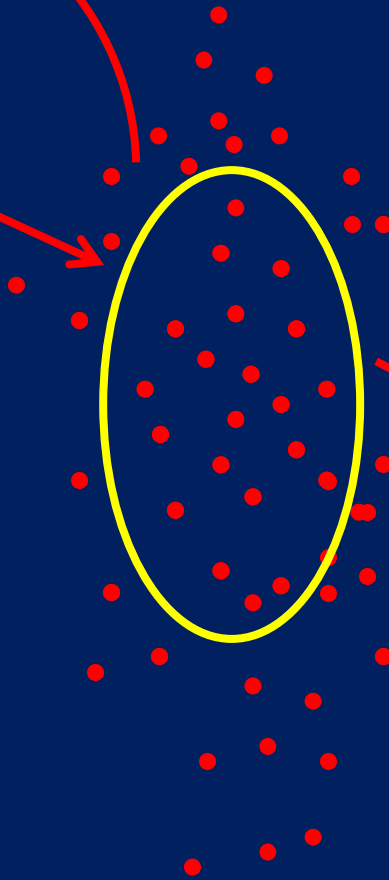
The inflammatory barricade blocks antioxidants and regenerative cells from entering the repair field.



The inflammation hypothesis:



Repair is incomplete and the immune system continues to try to repair the damage. This sets up a vicious cycle that can persist for a very long period of time leading to chronic inflammation.

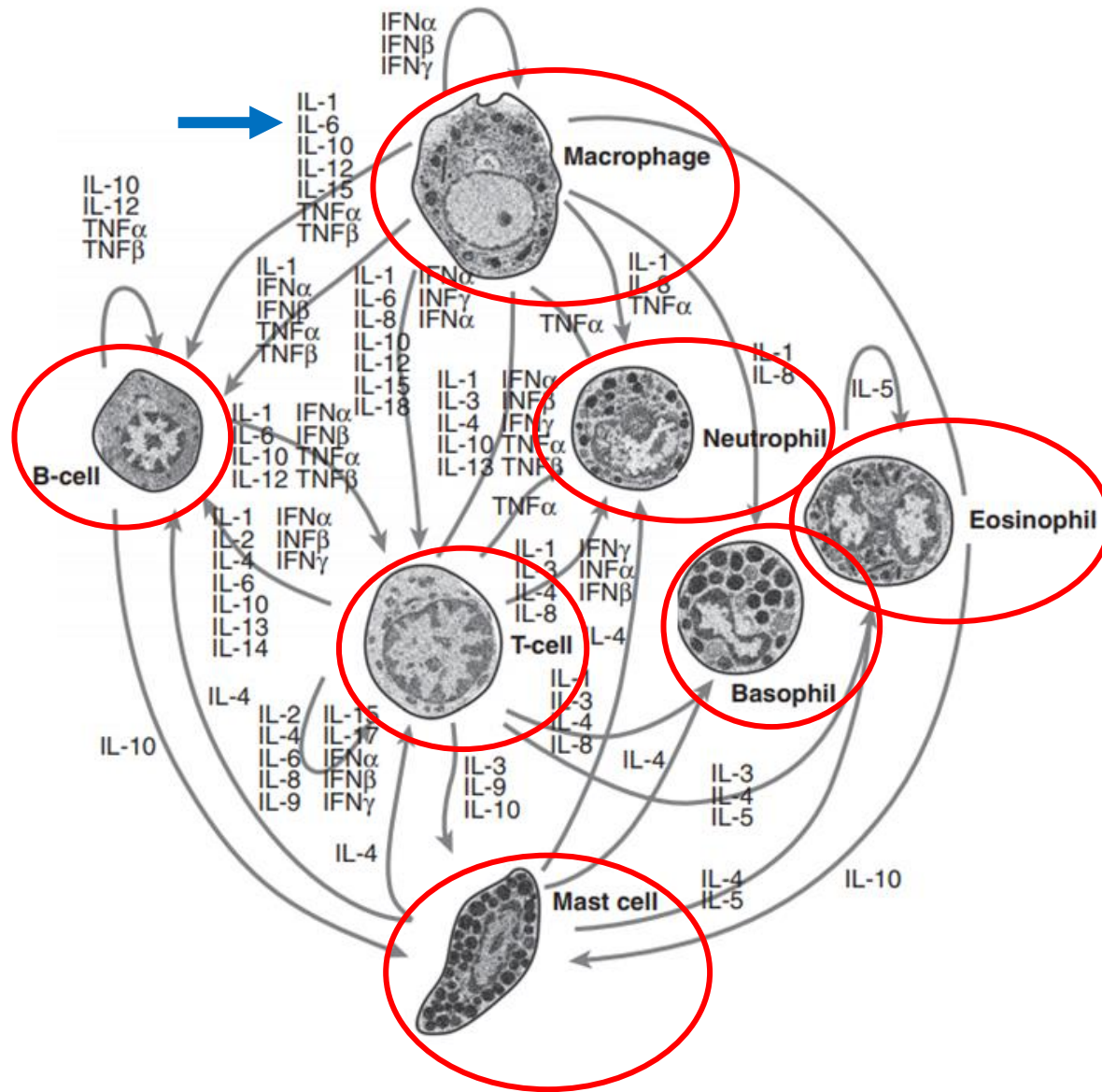


Earthing or grounding
prevents this vicious cycle
by confining the free radicals to places
where they are needed.

Inflammatory barricade does not
form!

This has enormous significance for the Covid-19 pandemic:

Some COVID-19 patients develop dangerous acute respiratory distress syndrome (ARDS). This is triggered by a cytokine storm. The cytokines are a host of molecules that regulate the immune system as it carries out the diverse protective and defensive processes that are essential to life.



This is the cytokine network that regulates the various cells of the immune system (circled). 100 different molecules fine-tune the response to infections. Covid research has focused on IL-6 (**blue arrow**) which is an amplifier, creating a chaotic cytokine storm that leads to excessive inflammation.

December 2021:

*Prevention and treatment of
COVID-19 infection by earthing.*

Haider Abdul-Lateef Mousa MB
ChB, MSc, Assistant professor
University of Basrah, College of
Medicine, Iraq.



Professor Haider
Abdul-Lateef Mousa

Available from:

https://www.researchgate.net/publication/346734751_Prevention_and_treatment_of_COVID-19_infection_by_earthing
[accessed Mar 07 2021].



University of Basrah, College of Medicine,
Basrah, Iraq.

59 cases with COVID-19 infection, earthing about 15 min-3 hours/day

Spectacular response in a severely ill patient who was unable to speak due to labored breathing with blood oxygen level 38% on continuous oxygen supply. On the second day of three hours daily earthing, his oxygen level raised to 95% with oxygen supply and 77% without oxygen supply. After 1-3 days of earthing, most patients revealed improvement of the following symptoms: fever, dyspnea, cough, weakness, headache, chest pain, taste and smell sense loss, anorexia, and body pain.

Six people were in contact with COVID-19 patients that had performed preventive earthing. They contracted mild or short-lived illness although their households were severely affected.

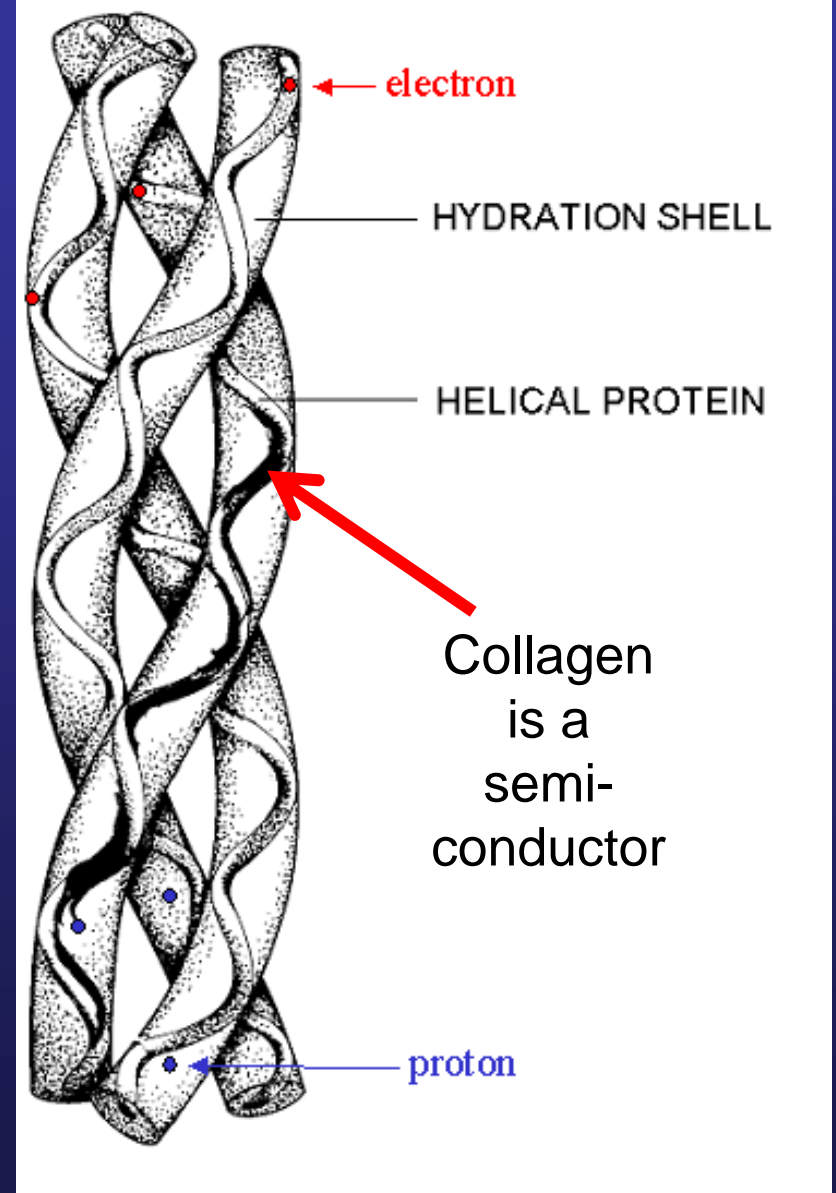
The Iraq study (December 2020) confirmed the ability of earthing to prevent and mitigate the symptoms of Covid-19 as suggested by Ober and Oschman (August 2020).

The latest news about water:

Szent-Györgyi's legacy:



Albert Szent-Györgyi

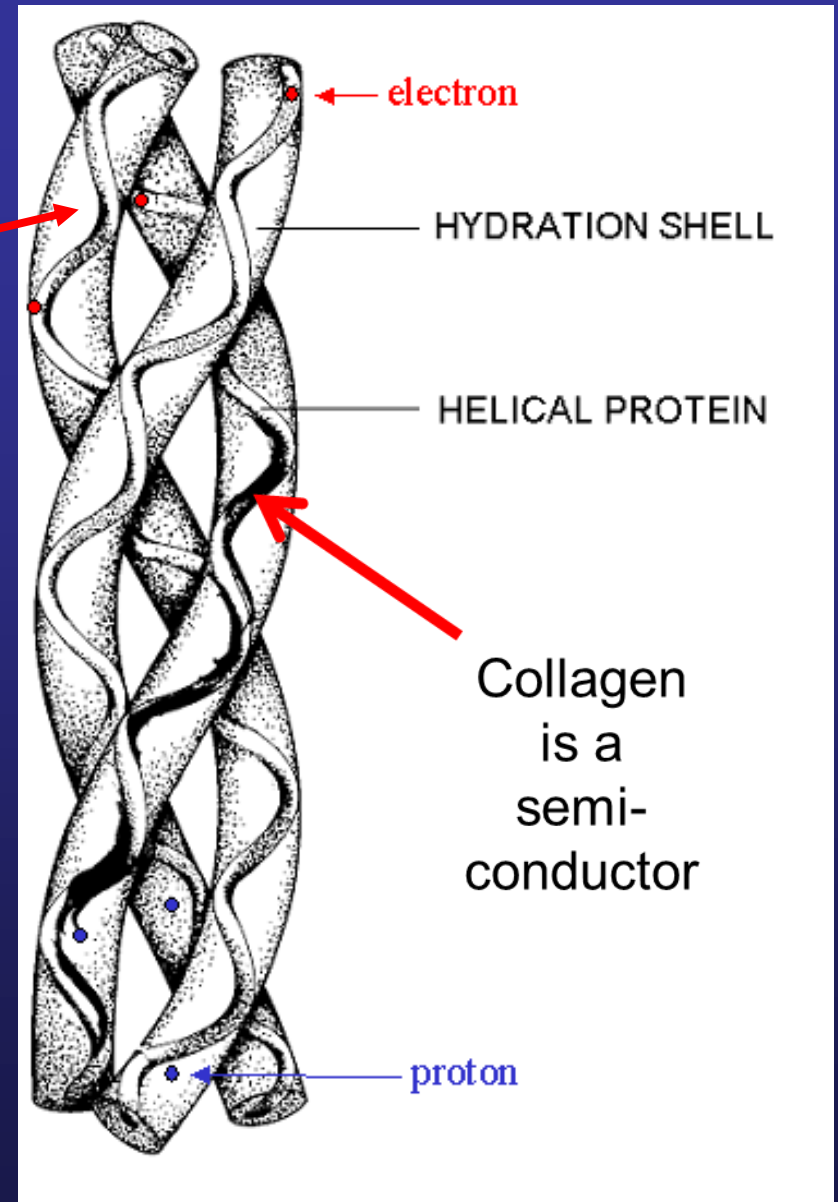


HYDRATION SHELL
INTERFACIAL WATER
EXCLUSION ZONE WATER



A FOURTH PHASE OF WATER:

SOLID
LIQUID
GAS
EXCLUSION ZONE



GERALD H. POLLACK

④ THE
FOURTH PHASE
OF WATER

① BEYOND
SOLID
LIQUID
VAPOR ②
③

The most significant
scientific discovery
of this
century.

Gerald Pollack

Water, Cells, and Life | Dr. Gerald Pollack | TEDxNewYorkSalon

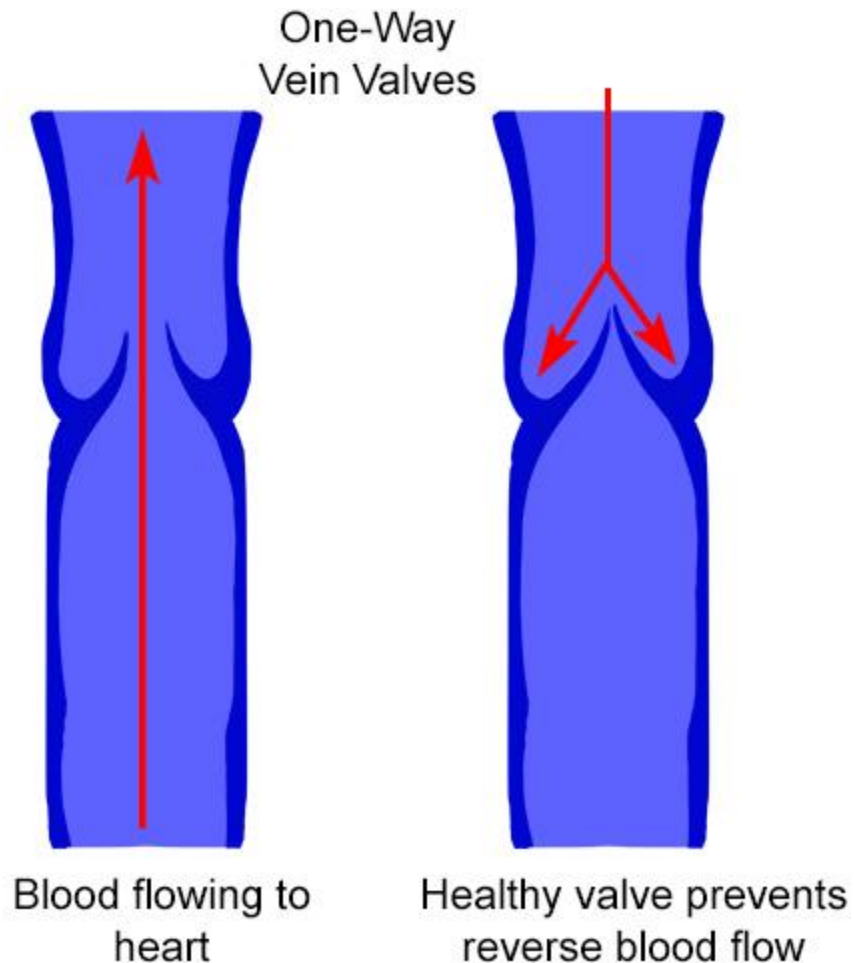


WE WILL WATCH THE
FIRST 6 MINUTES OF
HIS TED TALK

<https://www.youtube.com/watch?v=p9UC0chfXcg>

Another mystery solved by the
fourth state of water:

How does the venous blood
get from the feet up to the
heart?



Conventional
explanation:

One-way valves in
the legs – when
leg muscles
contract, veins are
squeezed, forcing
blood upward.
Valves prevent
downward flow.

A problem raised by Rudolph
Steiner in 1920:

The heart is not a pump.

THE HEART IS NOT A PUMP: A REFUTATION OF THE PRESSURE PROPULSION PREMISE OF HEART FUNCTION

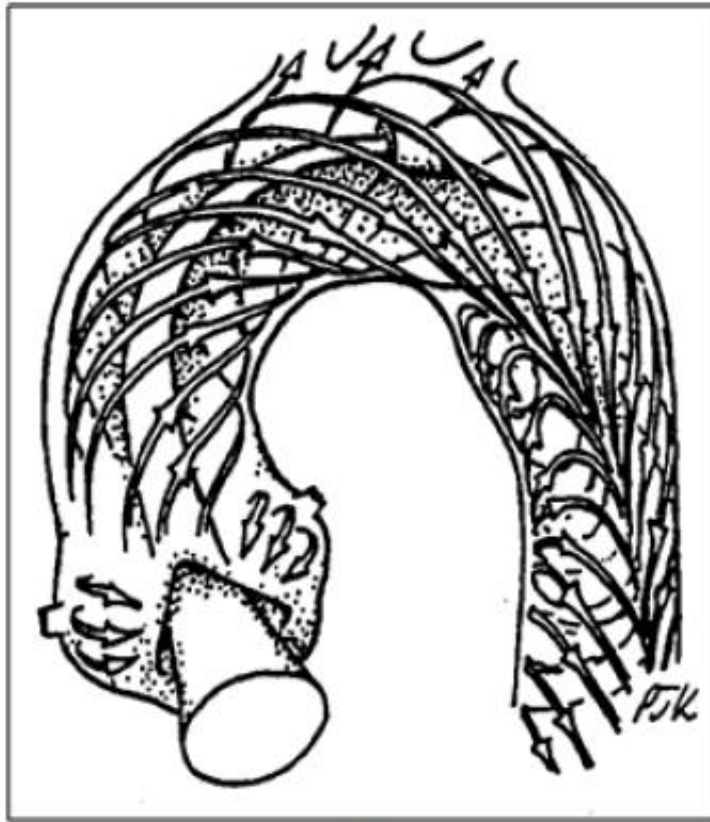
Ralph Marinelli; Branko Fuerst; Hoyte van der Zee;
Andrew McGinn; William Marinelli

Rudolf Steiner Research Center, Royal Oak, MI
Dept. of Anesthesiology, Albany Medical College, Albany, NY
Dept. of Anesthesiology and Physiology, Albany Medical College, NY
Cardiovascular Consultants Ltd., Minneapolis, MN. Department of
Medicine, University of Minnesota, MN
Hennipen County Medical Center and Dept. of Medicine, University of
Minnesota, MN

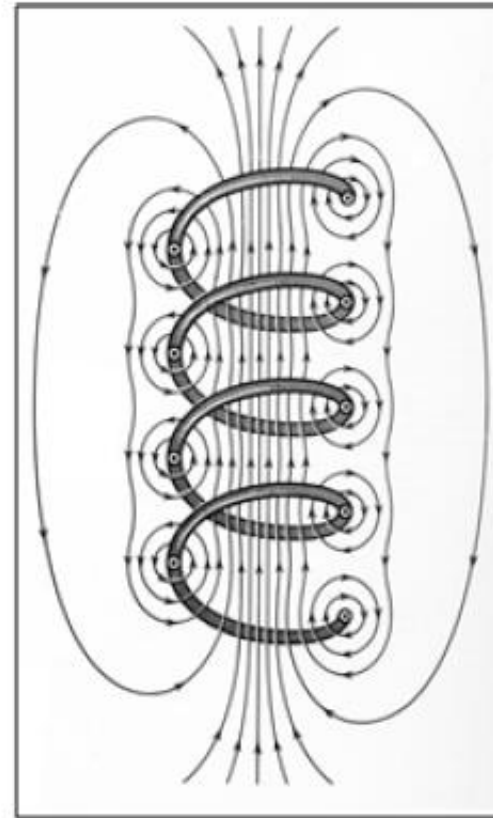
<http://www.rsarchive.org/RelArtic/Marinelli/index.html>

In 1920, Rudolph Steiner in Switzerland pointed out in lectures to medical doctors that the heart was not a pump forcing inert blood to move with pressure, but that the blood was propelled with its own biological momentum, as can be seen in the embryo.

In 1932, Bremer of Harvard filmed the blood in the very early embryo circulating in self-propelled mode in spiraling streams before the heart was functioning. Amazingly, he was so impressed with the spiraling nature of the blood flow pattern that he failed to realize that the phenomena before him had demolished the pressure propulsion principle.



(a)



(b)

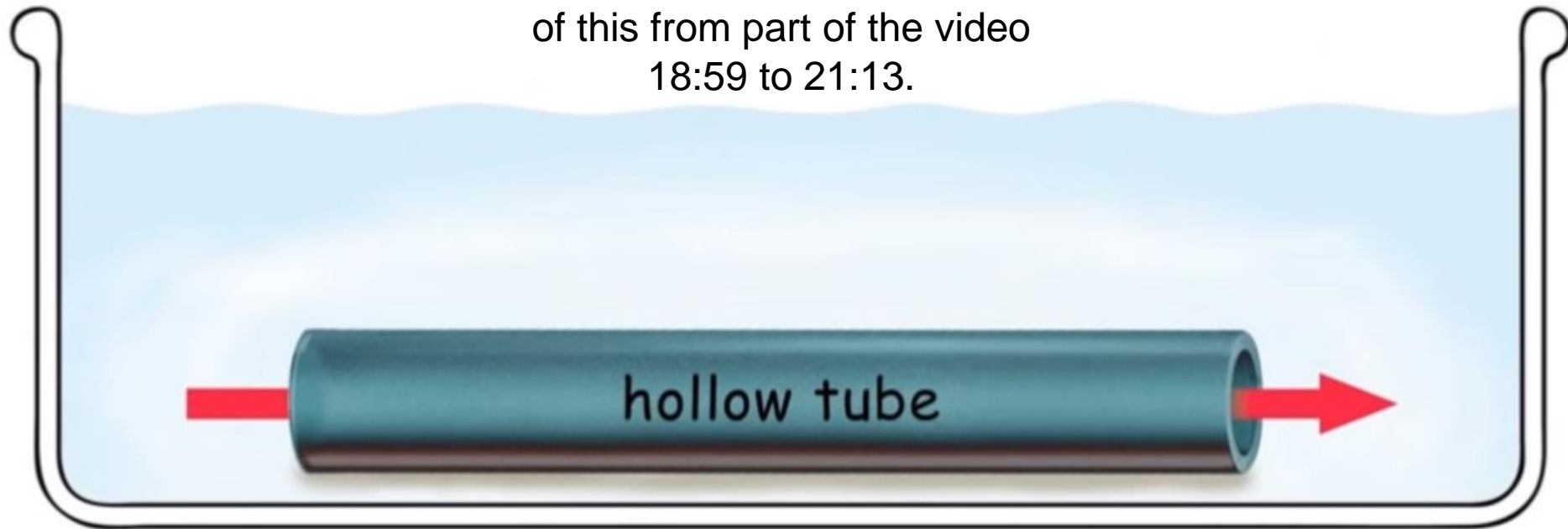
a) Vortical flow pattern in the aortic arch. The heart electricity is thought to be conducted through the circulatory system by ions in the blood, and the conductor itself, the blood, is moving helically. b) From an electrical engineering perspective, this resembles a coil or a solenoid that amplifies the electromagnetic output.

If the heart does not pump the
blood, what does?

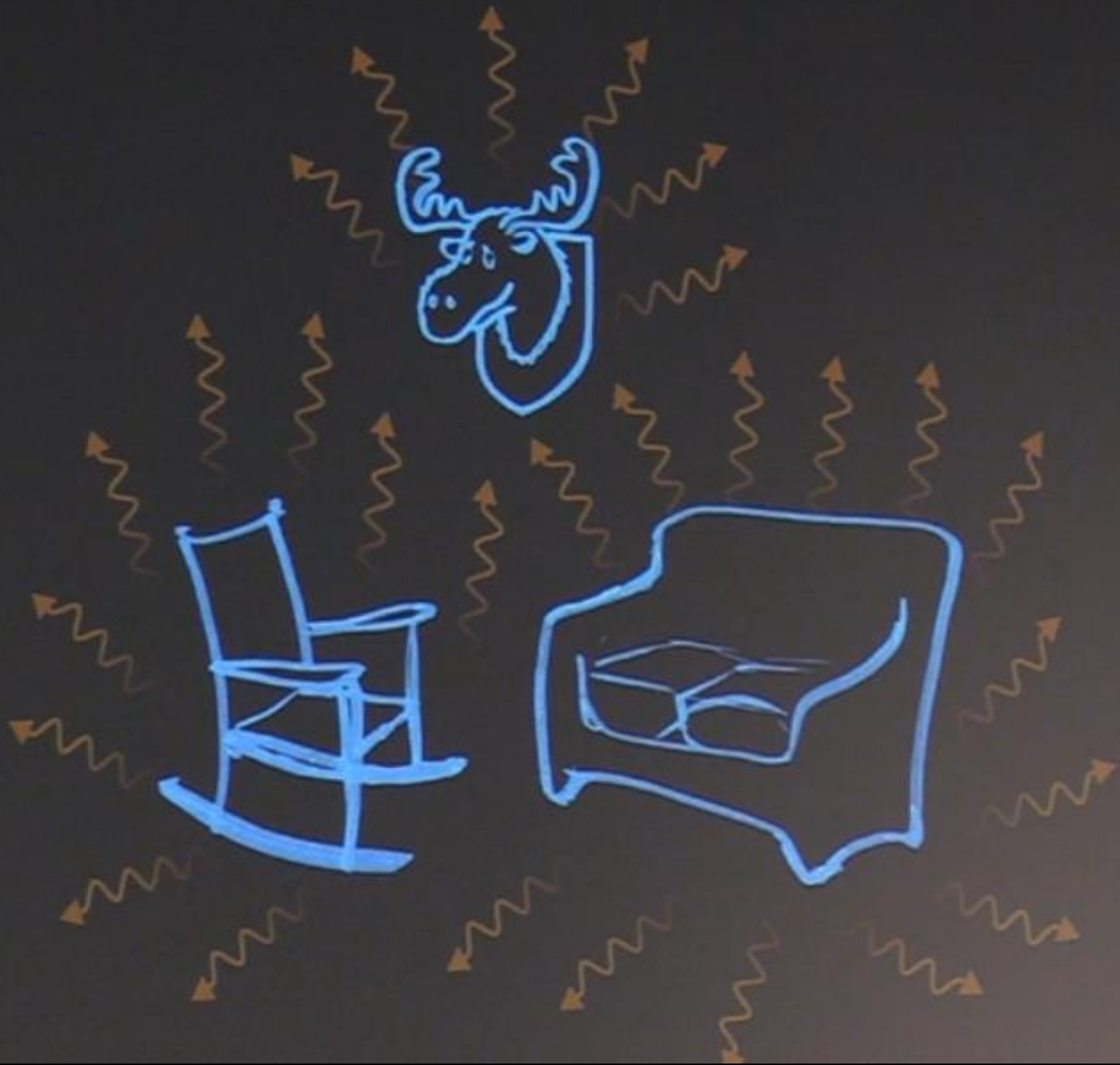
Answer:
Light pumps the blood!

Light can drive flow through a hydrophilic tube.

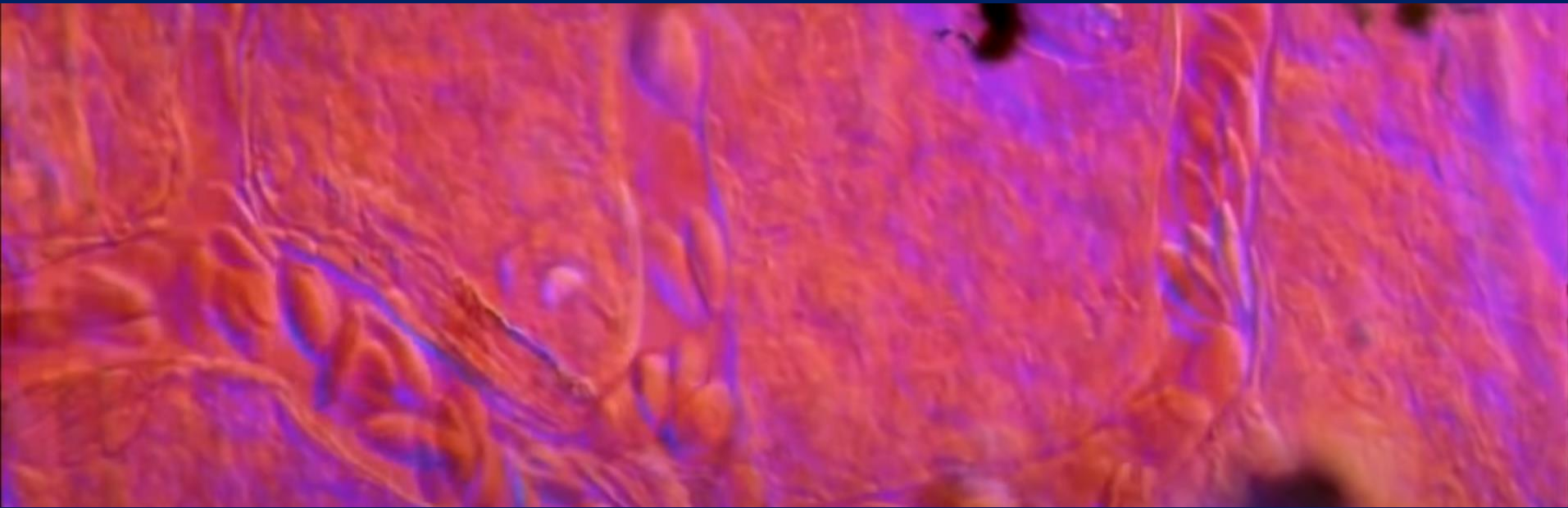
We will watch a demonstration of this from part of the video 18:59 to 21:13.



<https://www.youtube.com/watch?v=i-T7tCMUDXU&t=672s>







(186) Capillary Blood Flow in Frog Web – YouTube

2019 WATER CONFERENCE

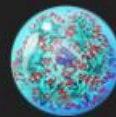
**Water Conference 2019
on the
Physics, Chemistry, and Biology of Water**

**Interfacial Water
and the Quantum Information Field:
An Update**

James L. Oschman, Ph.D

Nature's Own Research Association





WATER CONFERENCE 2021

INFO ▾

EXPLORE ▾

DONATE

Water Conference 2021

on the Physics, Chemistry, and Biology of Water

Date: October, 14th to 17th , 2021

Location: Bad Soden, Germany

Registration Starts: May 2-2021

REGISTER NOW!

Update
on the fabric of
space:

How do the quantum
information field and
morphic resonance
work?

Summary:

Evidence from a variety of sources details the structure and properties of an all-pervasive quantum information field that stores data of all kinds and that can energize a variety of phenomena.

The quantum information field
has infinite memory storage
capacity and it records events
anywhere instantaneously.

The quantum information field:

- holographic
- fractal
- tensegrous
- Phi mathematics
- E-8 symmetry

The holographic
universe

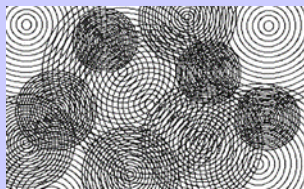
The fractal
universe

A well defined
quantum
information field

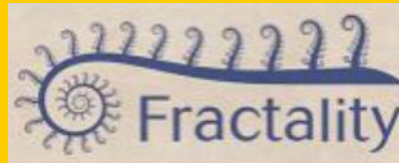


The tensegrous
fabric of space

Phi or the
sacred geometry
of space



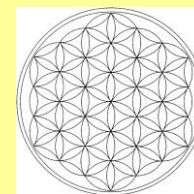
Holography



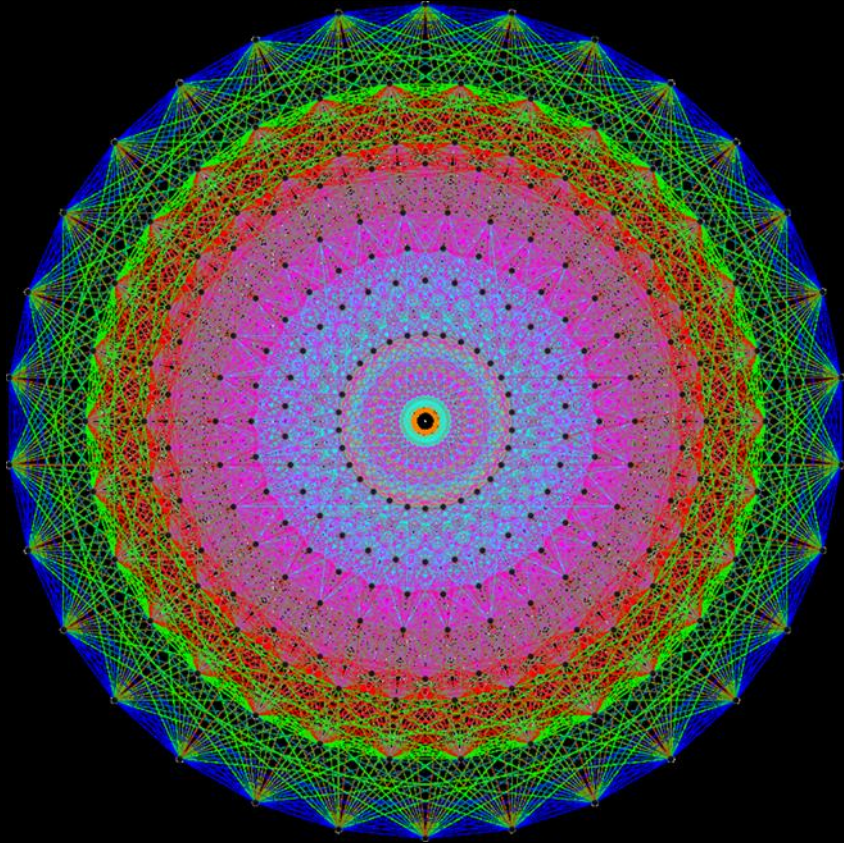
The quantum
information field



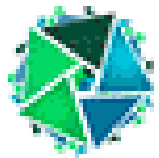
Tensegrity



Phi



E-8 symmetry



Q U A N T U M
GRAVITY RESEARCH

HOME OF
EMERGENCE THEORY

Hacking reality

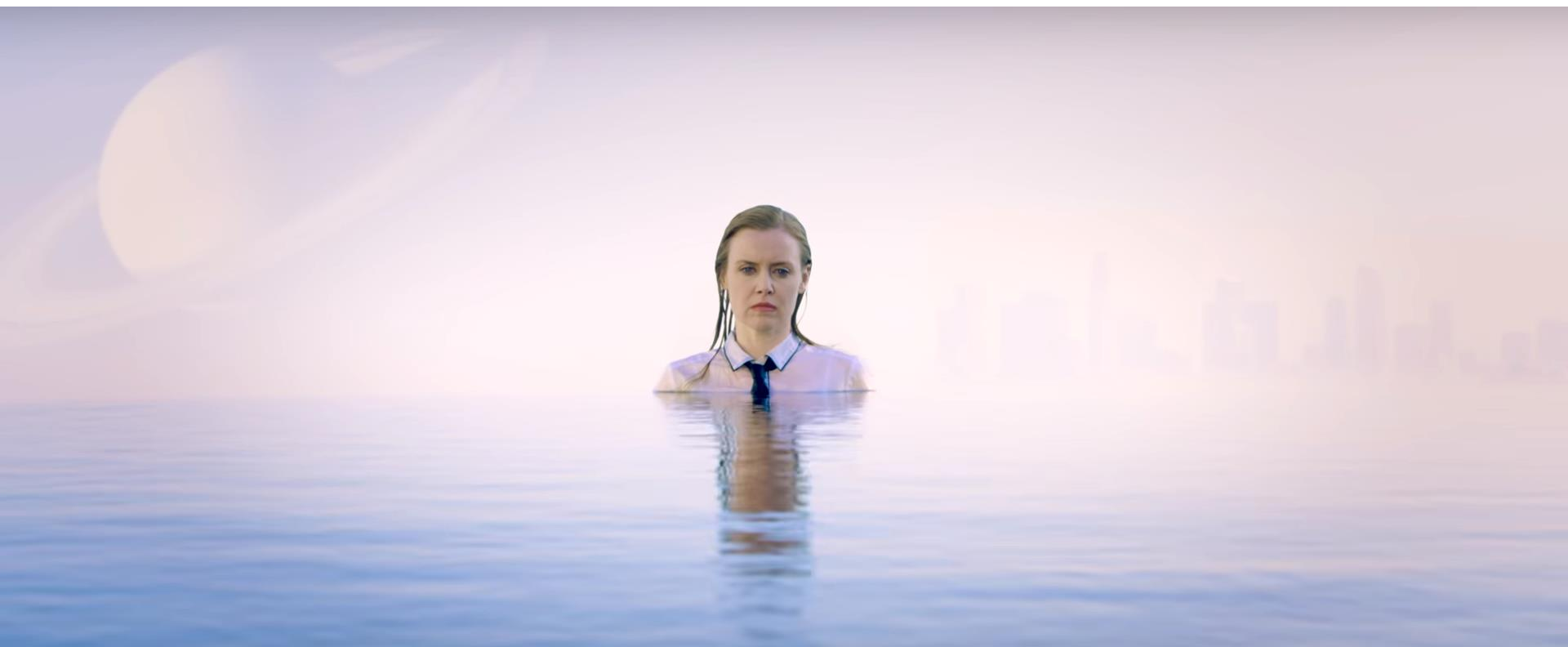
A layperson's guide to E8.

Is there an 8-dimensional “engine” behind our universe? Join Marion Kerr on a fun, visually exciting journey as she explores a mysterious, highly complex structure known simply as ‘E8’—a weird, 8-dimensional mathematical object that for some, strange reason, appears to encode all of the particles and forces of our 3-dimensional universe.

Let us talk about infinity.



Imagine opening your eyes and finding yourself surrounded by water and you cannot remember ever not being in that water (space).



The first question you might ask is, “how did I get here?”



You've always been there.



What do you mean, always?
When did I enter the pool?



You never entered the pool. You have
always been in the pool (space).



Okay but where was I before I was in the pool?
That's the first question.



There is no before in which you were not in the pool.

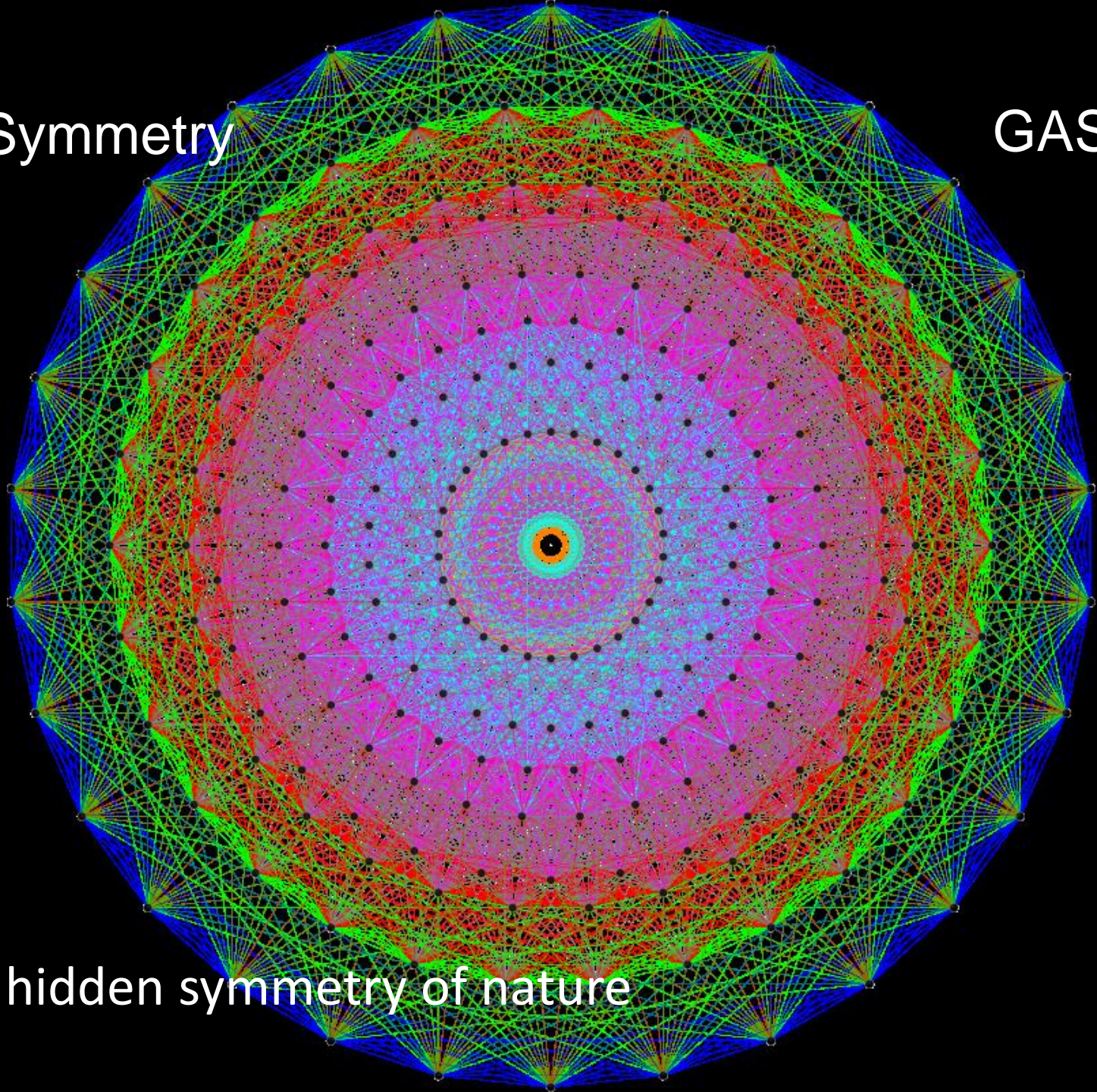


You have always been in the pool. **ALWAYS.**

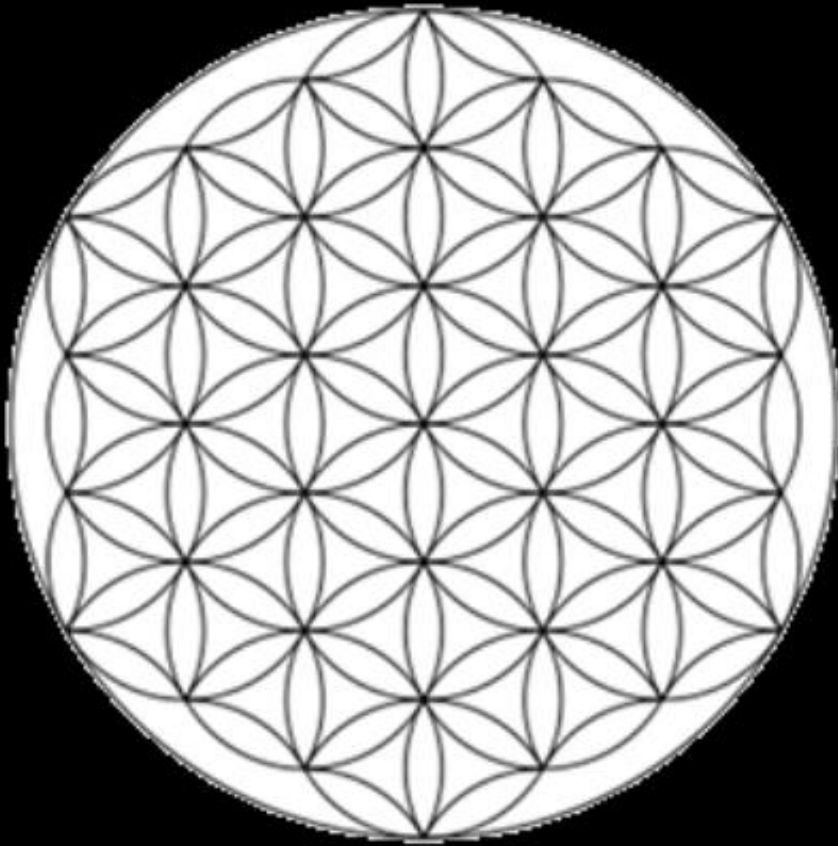


E-8 Symmetry

GASP!



The hidden symmetry of nature



Mathematics: Sacred Geometry

Detection of gravity waves

The Spacetime Symphony of Gravitational Waves | Kelly Holley-Bockelmann | TEDxNashville



An astrophysicist specializing in the study of black holes.

<https://www.youtube.com/watch?v=DTKGAE4voNM>

LIGO

Laser Interferometer
Gravitational-Wave Observatory
Supported by the National Science Foundation
Operated by Caltech and MIT



Laser Interferometer Gravitational-Wave Observatory



As of December 2018, LIGO has made eleven detections of gravitational waves.



Gravity waves change dimensions by one part in 10^{21} which equivalent to 1/10,000 the width of a proton – the smallest measurement ever made.

The mirrors are the smoothest ever made. They weigh 90 pounds and are suspended by silica threads that are twice the thickness of a human hair.

More accuracy is obtained by using more photons, so they use a megawatt laser. Enough energy to power 1000 homes.

Air in the arms will interfere with the beams, so they spent 40 days pumping out all of the air.

They pumped out enough air to fill 2.5 million footballs. The second best vacuum in the world. A trillionth of atmospheric pressure.



You are matter. You move.
All throughout life you
make gravitational waves.
Every move you make,
every choice you make,
throughout your life, is
making gravitational
waves propagating away
from you at the speed of
light. And long after you
are gone that imprint you
have made in the
universe will exist.



Your choices matter. They are going to be part of the universe.

Remember that your choices matter and are written in the universe.

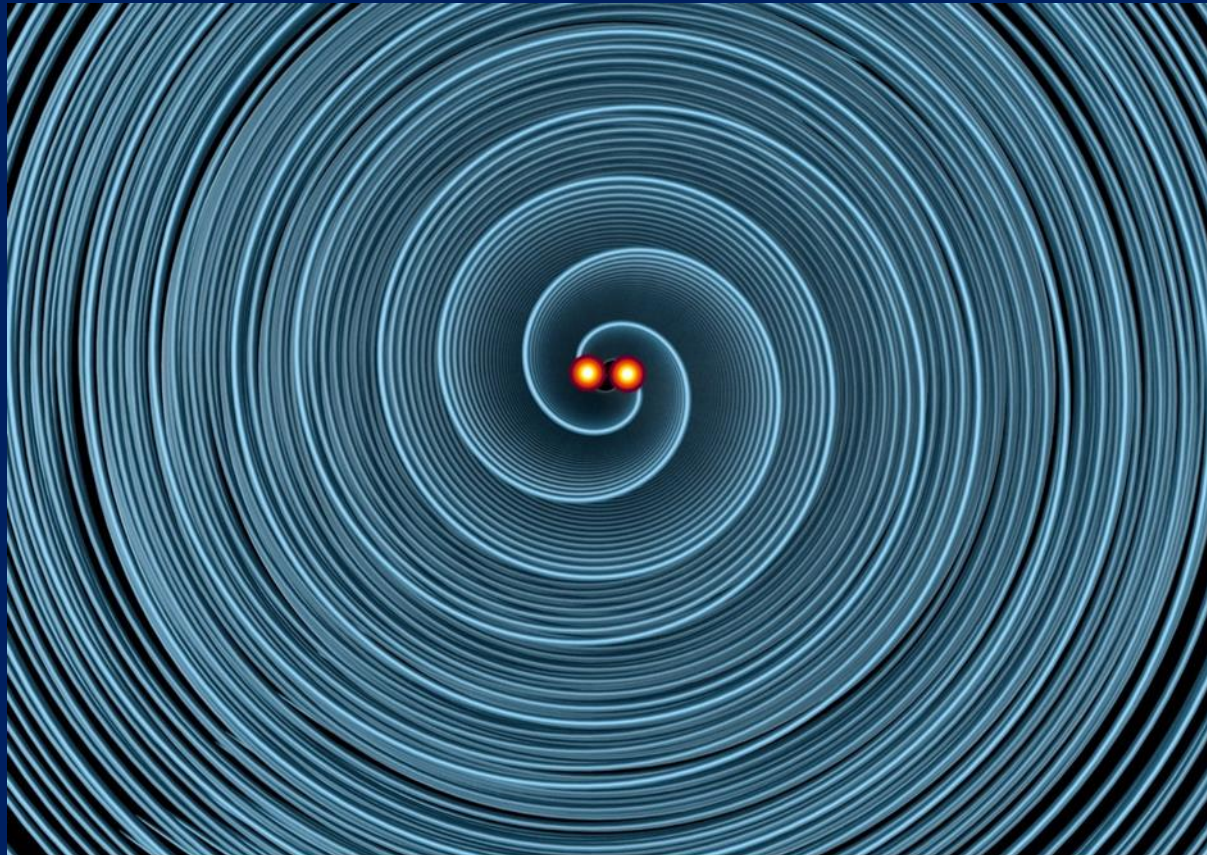
The things that we do now are going to be travelling away from us as waves in the cosmos, eventually reaching those stars we see in the milky way.

The things that
we do now are
going to be
travelling away
from us as waves
in the cosmos,
eventually
reaching those
stars we see in
the milky way.



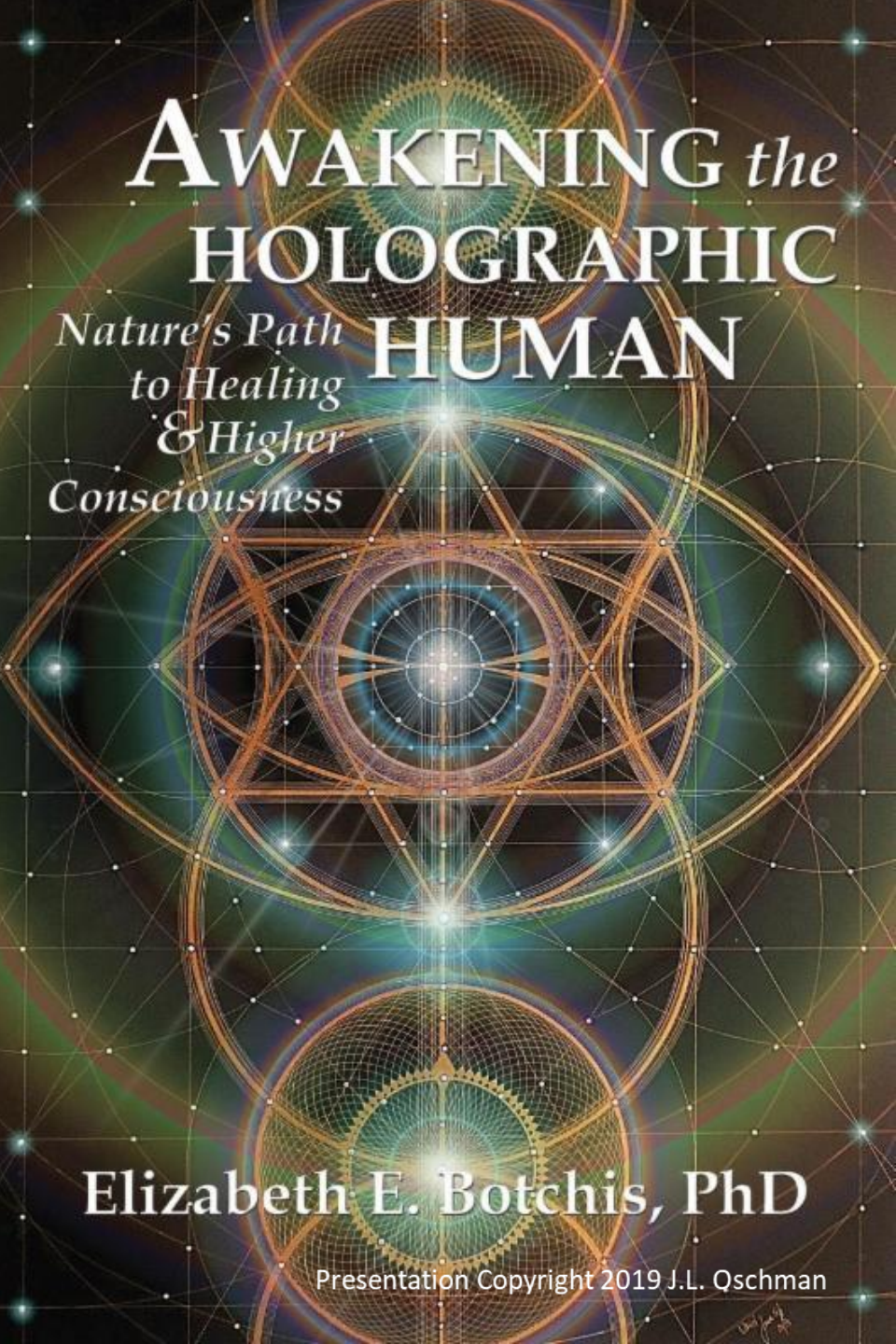
The Universe Probably 'Remembers' Every Single Gravitational Wave

Éanna É. Flanagan, Alexander M. Grant, Abraham I. Harte, and
David A. Nichols **Phys. Rev. D** 99, 084044 – Published 25 April
2019



The authors showed that after the waves pass, they might leave a region slightly altered — leaving behind a sort of memory of their crossing.

The researchers termed these changes "persistent gravitational wave observables."



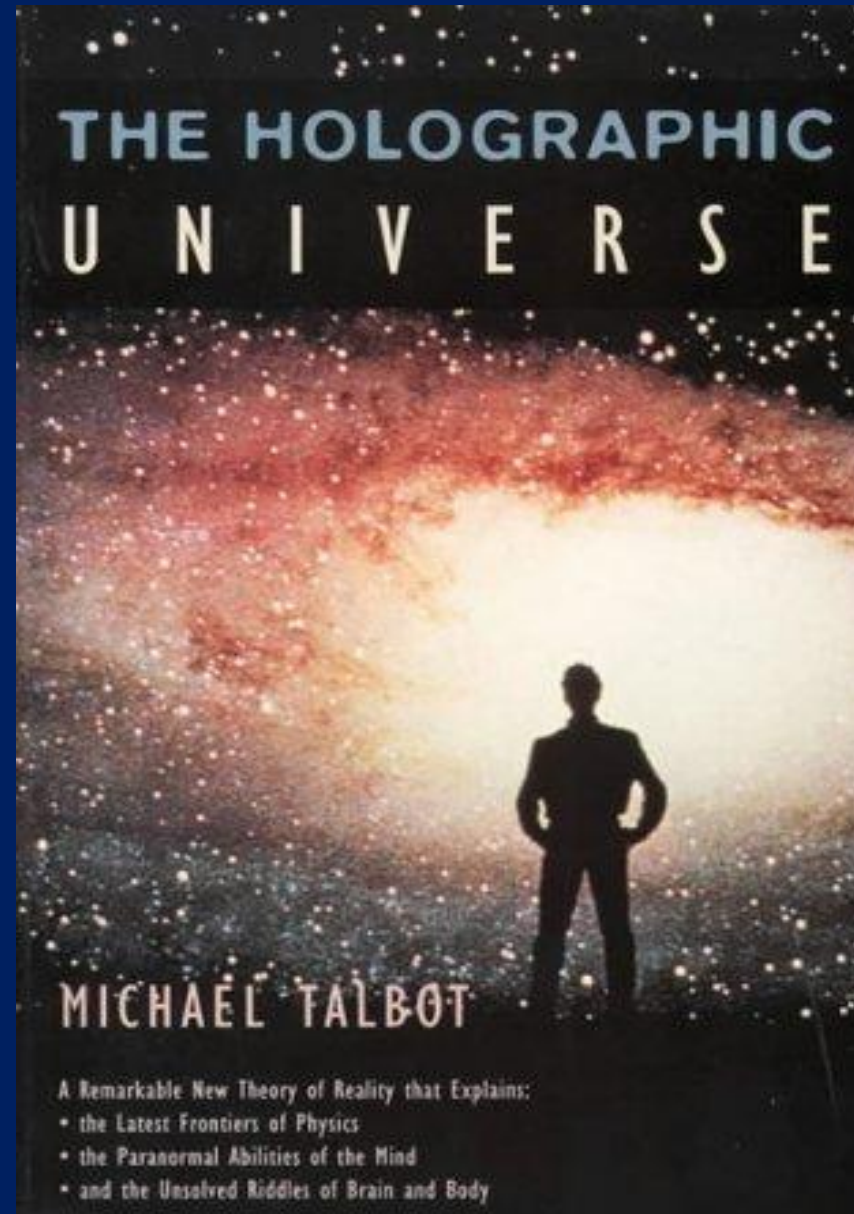
AWAKENING *the* HOLOGRAPHIC HUMAN

*Nature's Path
to Healing
& Higher
Consciousness*

Elizabeth E. Botchis, PhD

Presentation Copyright 2019 J.L. Qschman

Many scholarly
books attest to
the
holographic
nature of mind
and space.



THE HOLOGRAPHIC UNIVERSE

MICHAEL TALBOT

A Remarkable New Theory of Reality that Explains:

- the Latest Frontiers of Physics
- the Paranormal Abilities of the Mind
- and the Unsolved Riddles of Brain and Body

Ask a physicist about the structure of space and he will say one of two things:

Space has no structure!

Space does not have a structure because we do not have any equations for it.

Or:

*The vacuum is the central
fundamental basis for the physical
description of reality. It has
become the foundation of the next
era of the physical world picture.*

MICROSCOPIC AND MACROSCOPIC QUANTUM VACUUM
Zeiger & Bischof 1998

AN OVERVIEW OF TWISTOR, STRING & QUANTUM THEORY

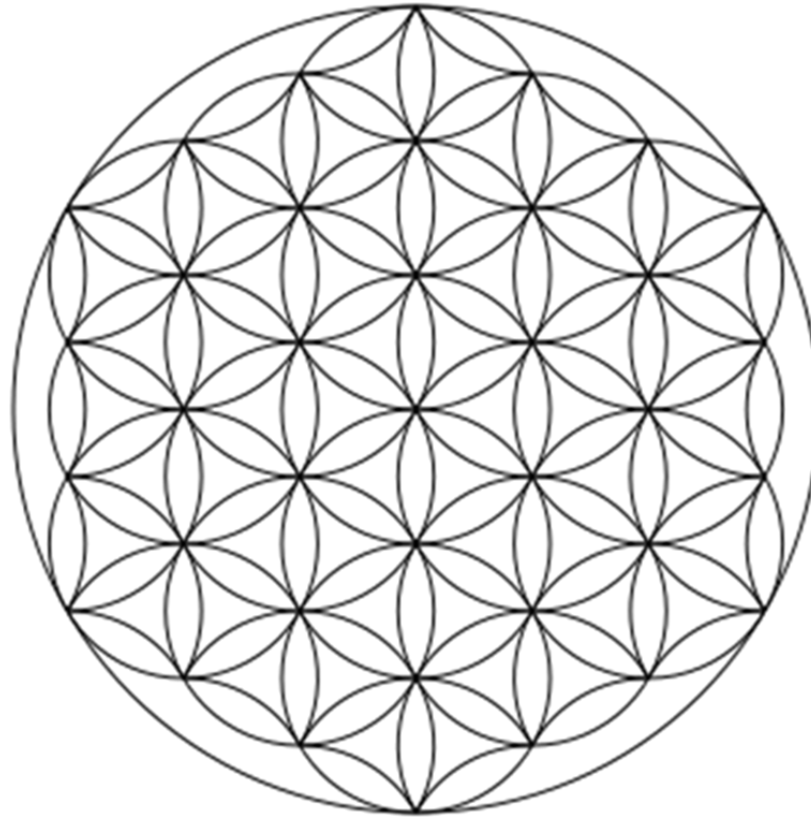
Want equations? Here they are along
with readable verbal descriptions.

" MAPPING MINKOWSKI
SPACE TO TWISTOR SPACE "

EDITED BY PAUL F. KISAK

~~sacred geometry~~

geometry of the quantum vacuum



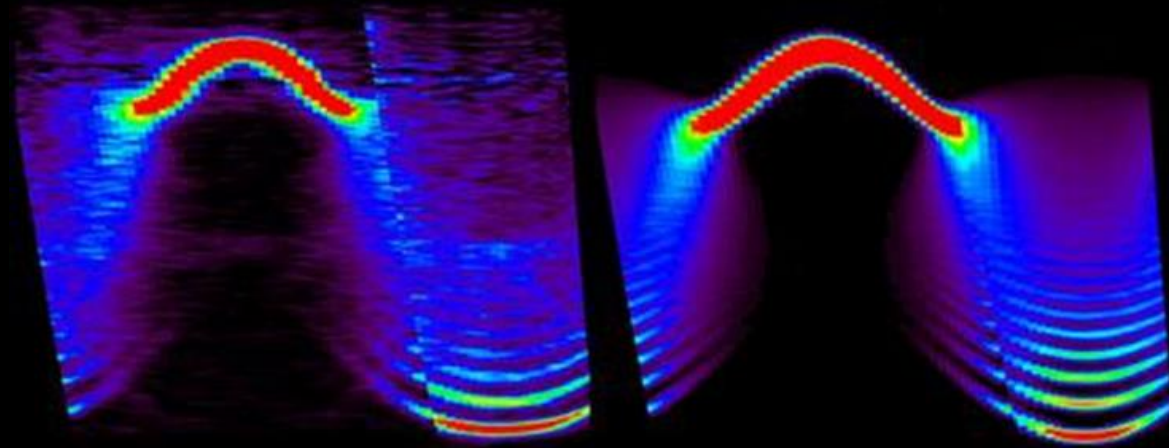
The mathematics of space is the golden
ratio or Phi:

$$a/b = (a + b)/a =$$

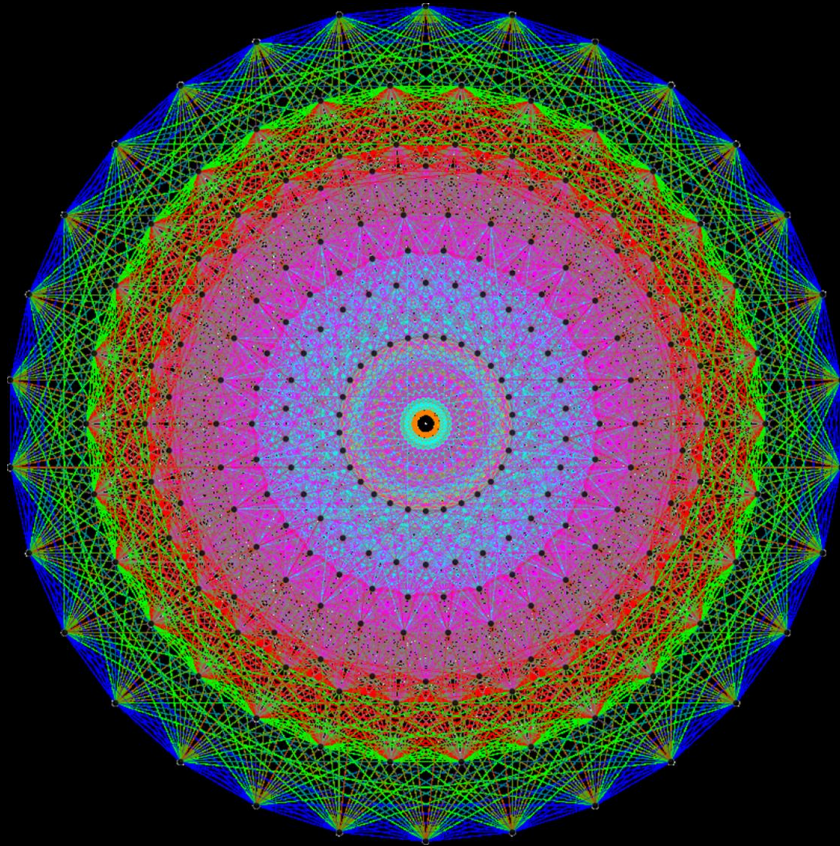
1.6180339887498948420 ...

In 2010, an international working group of leading European physicists reported the results of a decade-long study showing that solid matter has quantum properties defined by the golden ratio famous from art and architecture. The findings were published in the journal *Science*.

R. Coldea, D. A. Tennant, E. M. Wheeler, E. Wawrzynska, D. Prabhakaran, M. Telling, K. Habicht, P. Smeibidl, K. Kiefer. Quantum Criticality in an Ising Chain: Experimental Evidence for Emergent E8 Symmetry. *Science*, Jan. 8, 2010




To study these quantum effects the researchers focused on one atom thick chains of the magnetic material cobalt niobate, which act like quantum-scale guitar strings. Magnetism arises from the aligned spins of the magnetic atoms. The niobate “strings” were “plucked” with strong transverse magnetic fields.



For these interactions we found a series of resonant notes: The first two notes show a perfect relationship with each other. Their frequencies are in the ratio of 1.618..., which is the golden ratio famous from art and architecture.
~Dr. Radu Coldea

“It reflects a beautiful property of the quantum system — a hidden symmetry. Actually quite a special one called E8 by mathematicians, and this is its first observation in a material.”

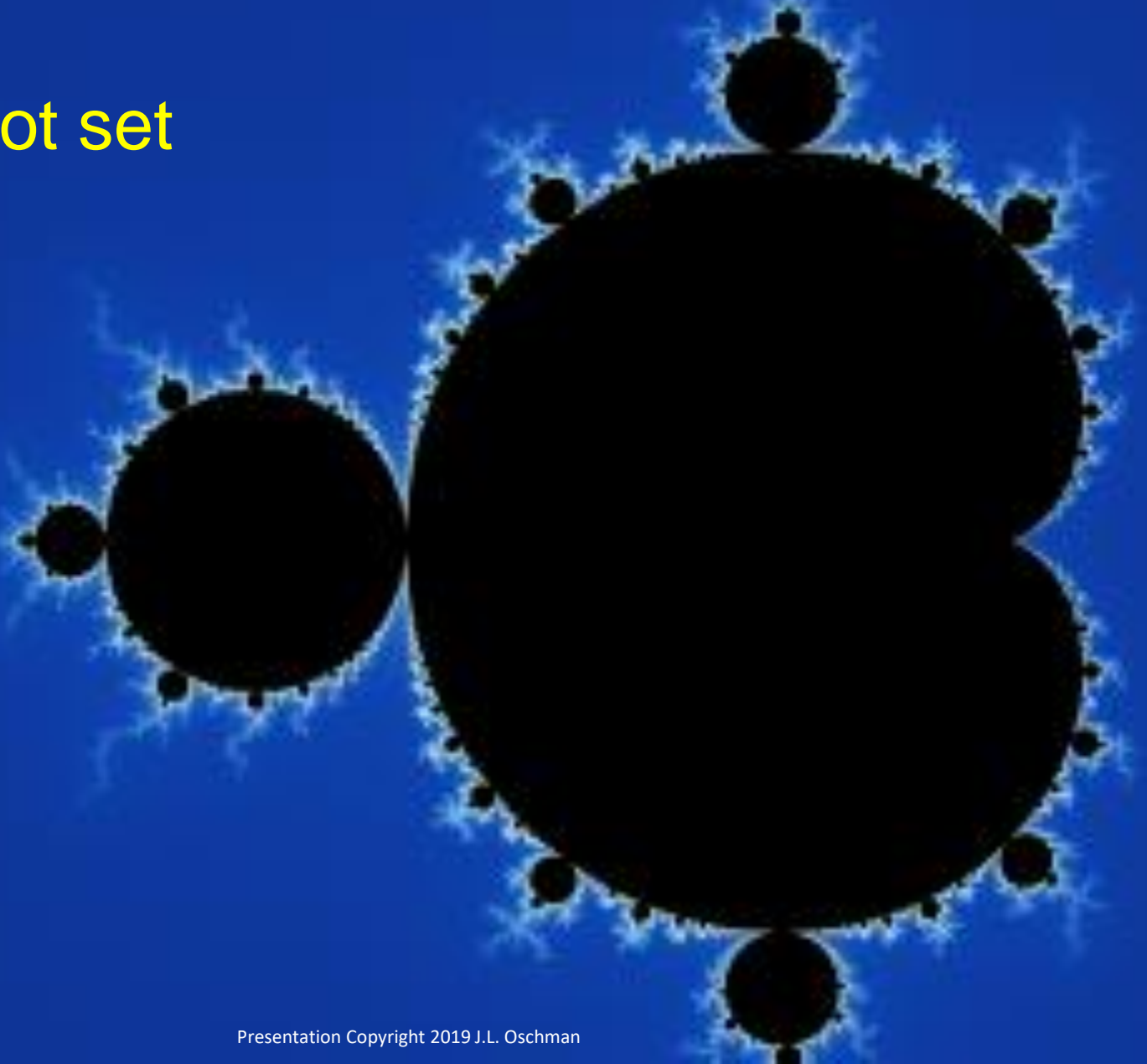
Atomic, Ionic and Bohr Radii Linked via the Golden Ratio for Elements of Groups 1 - 8 including Lanthanides and Actinides

Raji Heyrovska¹ 

¹Na Stahlavce 6, 16000 Praha 6, Czech Republic

Abstract: In an earlier article, atomic radii of elements of Groups 1A - 8A were shown to be proportional to their Bohr radii obtained from the first ionization potentials and the constants of proportionality were shown to be simple functions of the Golden ratio. Here it is shown that the above finding holds also for elements of Groups 1B - 8B including Lanthanides and Actinides. All the relevant data are presented in Tables and the correlations are shown in graphs. Revised data for some of the elements of Groups 1A - 8A, have also been included.

Mandelbrot set

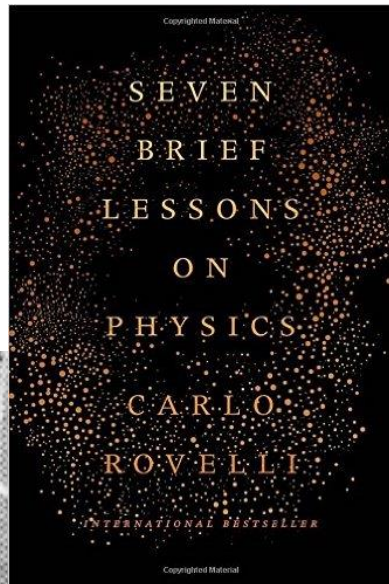




Fractality is
recursive:

The pattern repeats
in an infinite series
of scales.

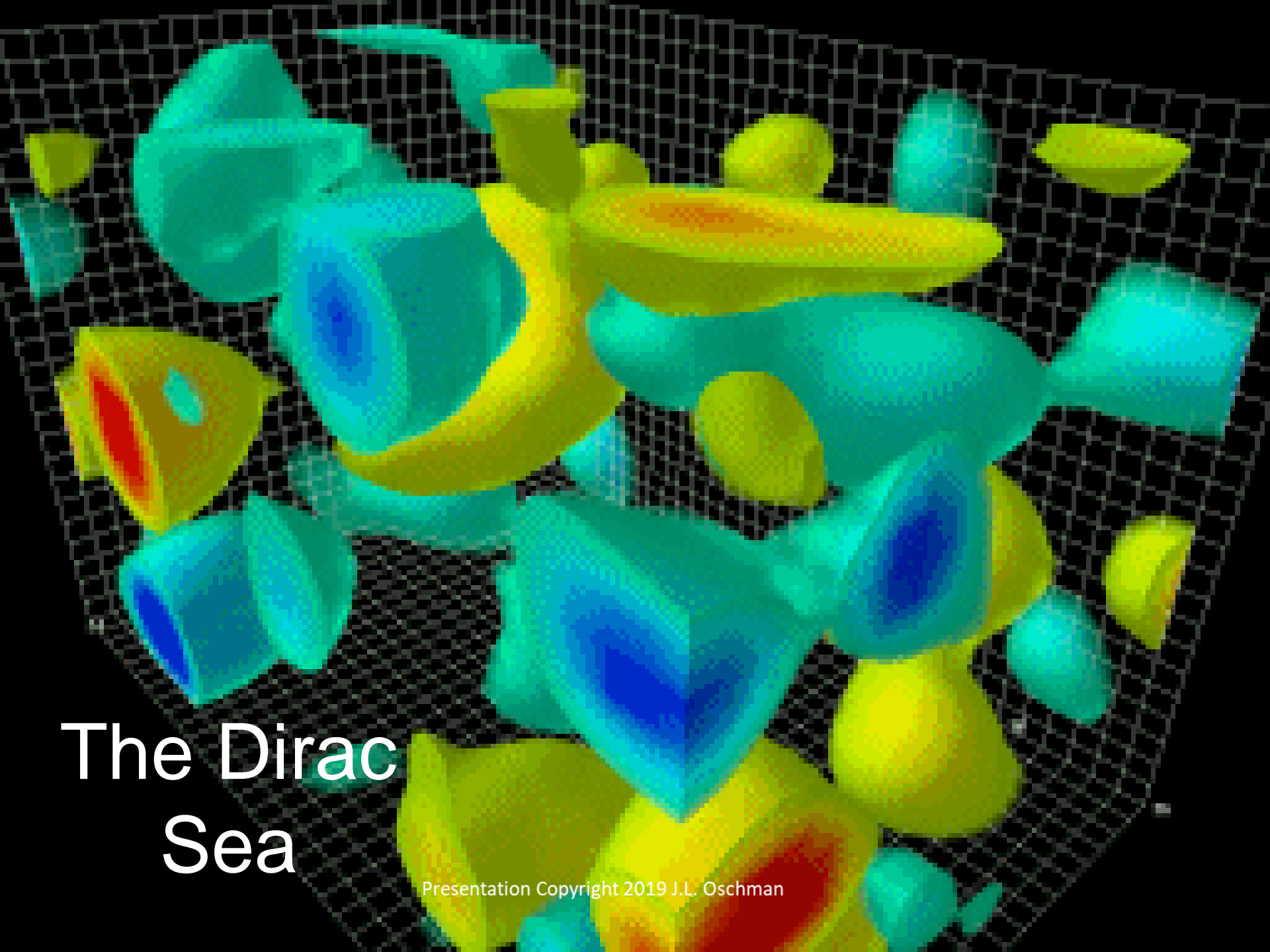
*Some examples
of the fabric:*



The fine structure of space, according to Italian theoretical physicist, Carlo Rovelli, in his 2016 international bestseller, *Seven Brief Lessons on Physics*.

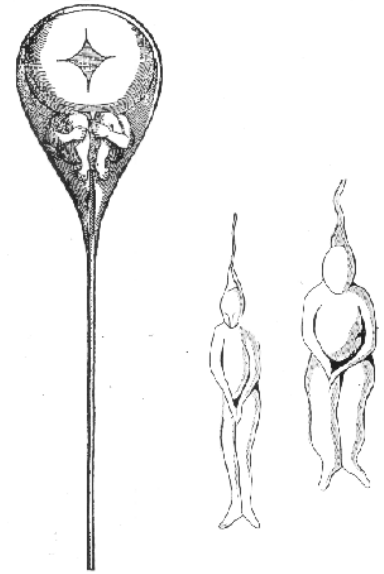


Carlo Rovelli



The Dirac Sea

Presentation Copyright 2019 J.L. Oschman



It is not a
homunculus –
It is a code!

Homeopathy

Modern quantum physics, barely 100 years old, and widely recognized as the most important discovery in the history of science, has not been satisfactorily linked to biology and medicine. Let's explore the idea that the effects of homeopathy may be explainable by quantum physics, and therefore may actually demonstrate a role of quantum physics in medicine.

Homeopathy cures a greater percentage of cases than any other method of treatment. Homeopathy is a refined method of treating patients economically and non-violently.

~Mahatma Gandhi

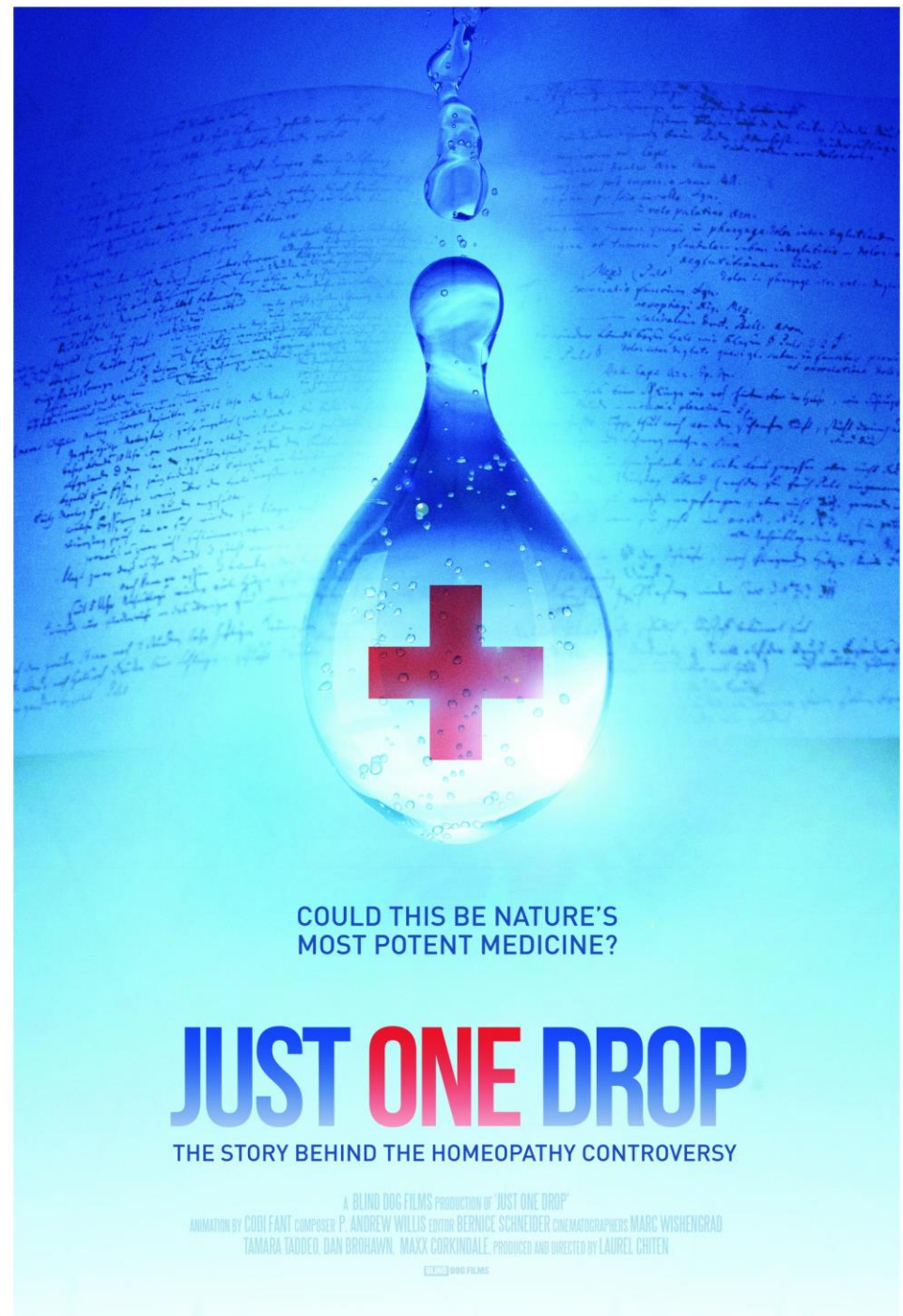
Homeopathy has never cured anything, can't cure anything, and never will cure anything.

~ Australia's National Health and Medical Research Council

Just One Drop tells the
little-known story of
homeopathy

THE MOST
CONTROVERSIAL
SYSTEM OF MEDICINE
EVER INVENTED

<https://justonedropfilm.com/>





Laurel Chiten, film maker



Homeopathy cures a greater percentage of cases than any other method of treatment. Homeopathy is a refined method of treating patients economically and non-violently.

~Mahatma Gandhi

Homeopathy has never cured anything, can't cure anything, and never will cure anything.

~ Australia's National Health and Medical Research Council

200,000,000 people use homeopathy as their primary healthcare. Are they all crazy?

Homeopathy works on babies and animals, which are not subject to placebo effects.

In some cases, a serious illness responds immediately to a single drop of remedy.



Peter Fisher MD FRCP
leader in homeopathy research



From \$4.95

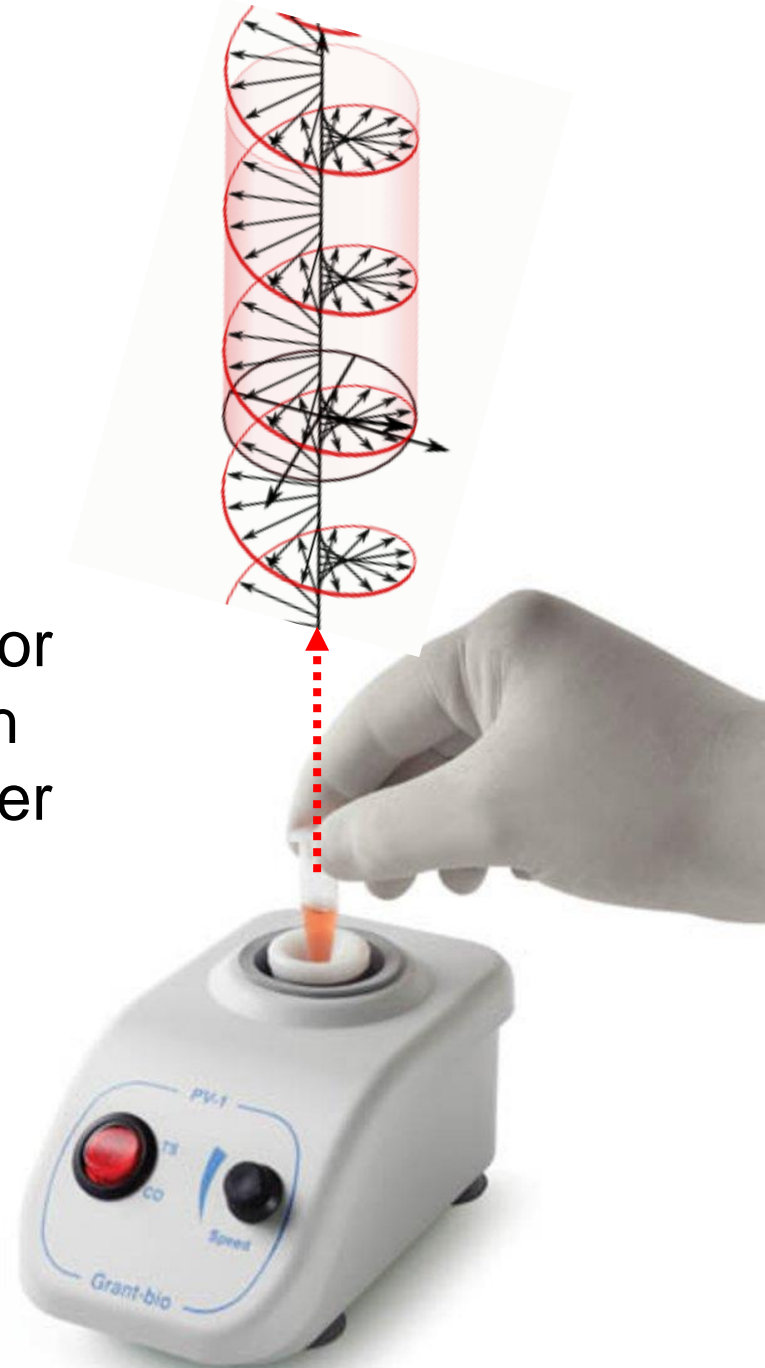




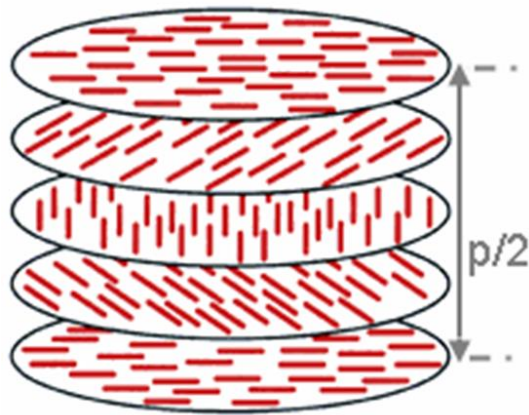
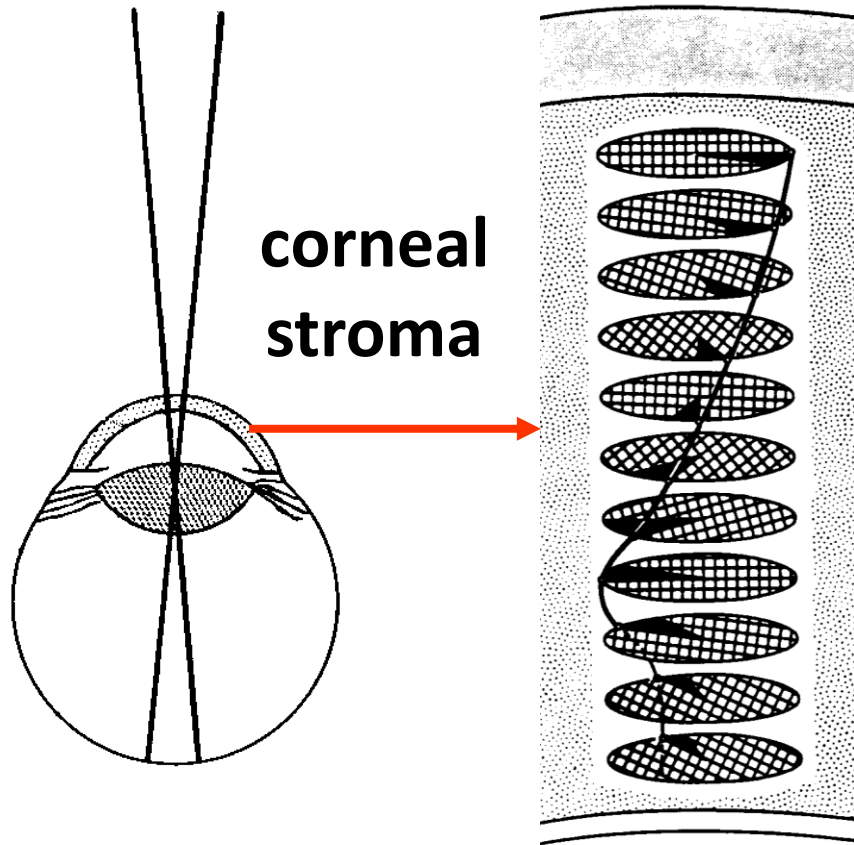


Luc Montagnier
French virologist,
recipient of the 2008
Nobel Prize for the
discovery of the human
immunodeficiency virus
(HIV).

Succussion or
dilution with
a vortex mixer

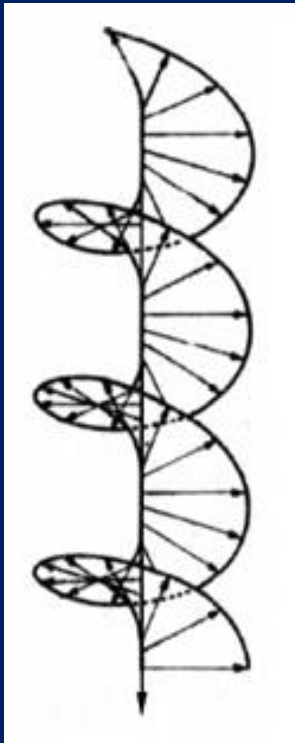


Biology confirms the vortex
structure of space and light:



**Light spirals into both
eyes in a right-handed
helix.**

Both the fabric of space and the fabric of the body have spiral grains.



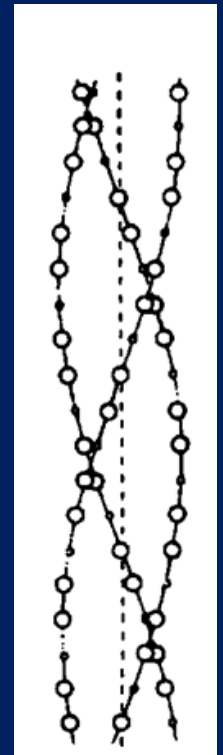
light
spirals
through
space

space

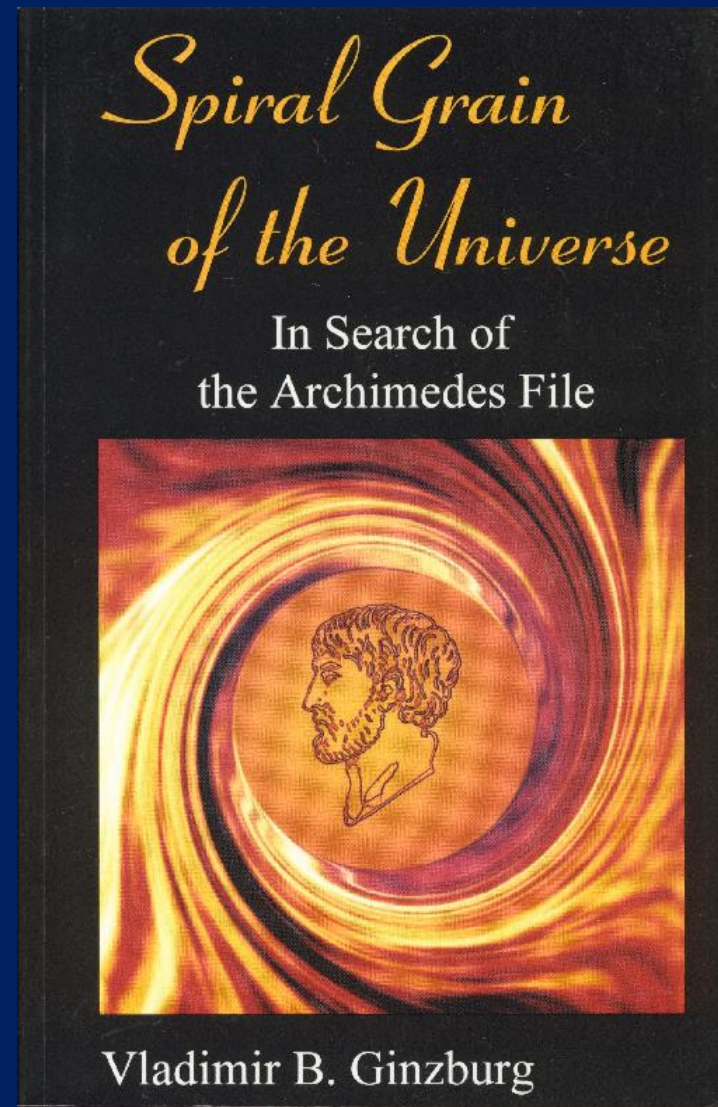
energy
spirals
through
molecules



DNA

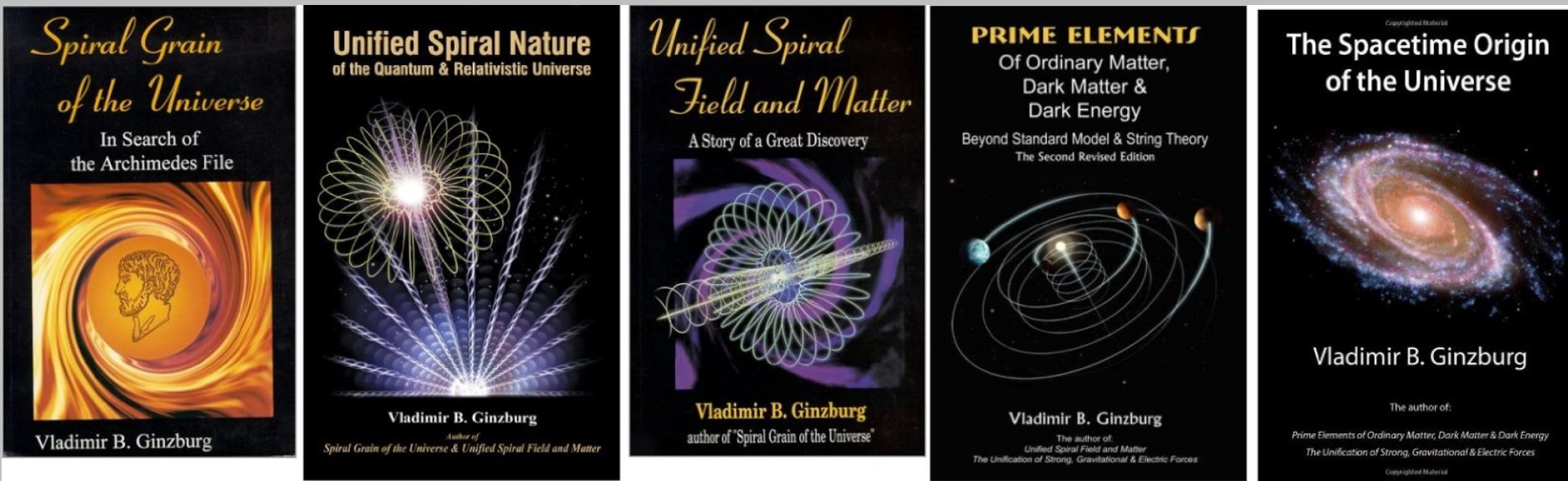


collagen



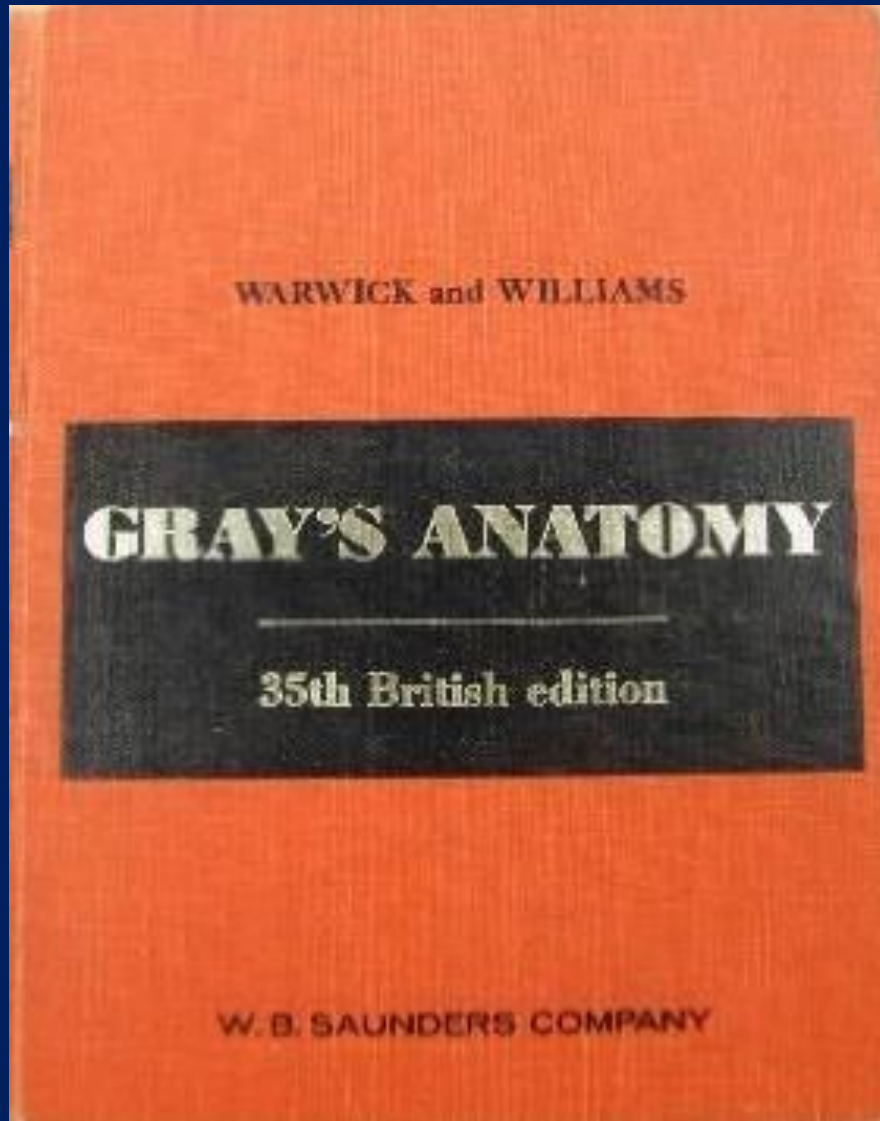
Vladimir B. Ginzburg

Vladimir Ginzburg's 5 books on the spiral grain of the universe:

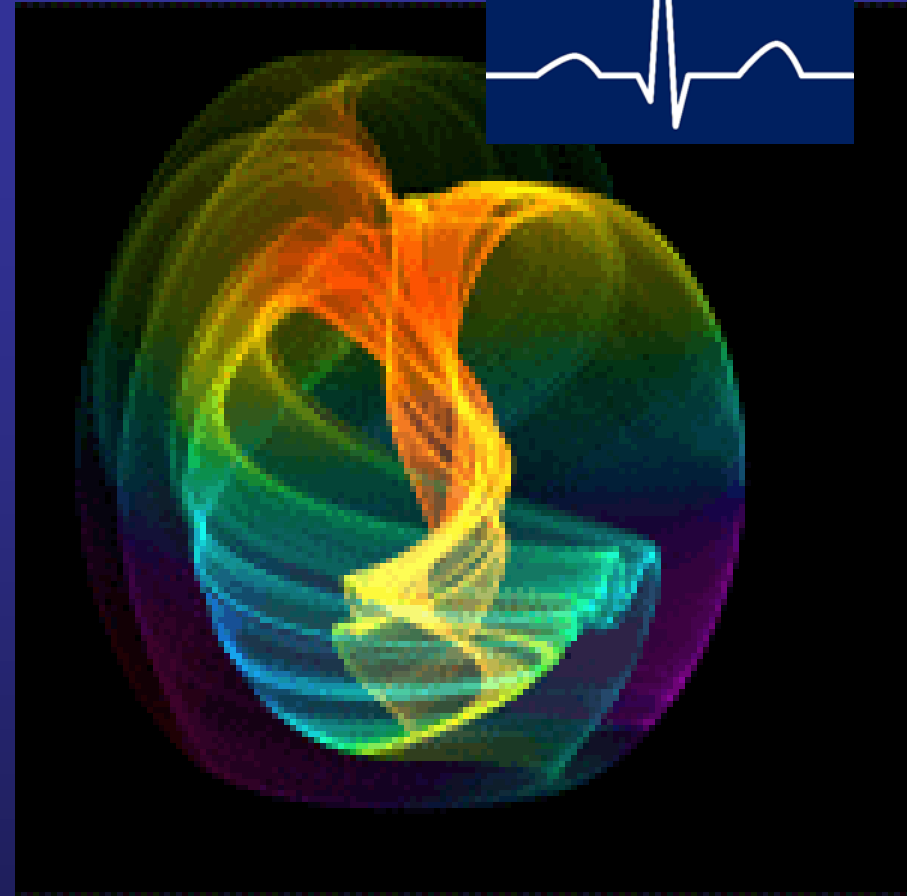


Sensation and perception

We have reached
the heart of the
matter!



Guasp FT, 1970.
*The electrical
circulation.*
Guasp, Dena.



Like collagen and the fabric of the quantum information field, the heart is a helical structure. Electrical energy spirals through the heart with each heartbeat.

The arrangement of ventricular myocardial fibers is so unusual and perplexing, that it has long been considered as forming a kind of Gordian knot of Anatomy. Of the complexity of the arrangement, I need not speak further than to say, that Vesalius, Haller and De Blainville, all confessed their inability to unravel it.



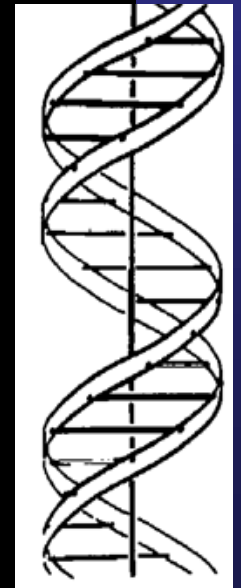
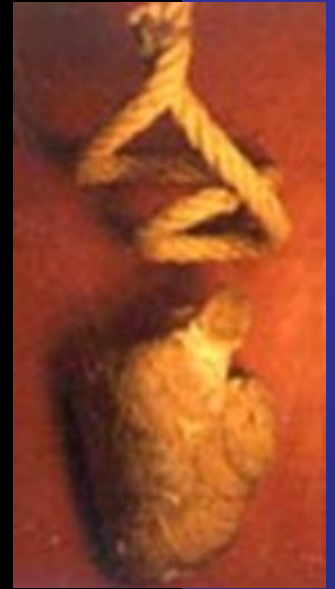
~Dr. Francisco Torrent-Guasp

You can watch Spanish cardiologist Dr. Francisco Torrent Guasp dissect a cow heart to reveal the helical structure of the ventricular myocardial band:

<https://www.youtube.com/watch?v=NHI4DUu1bEI>

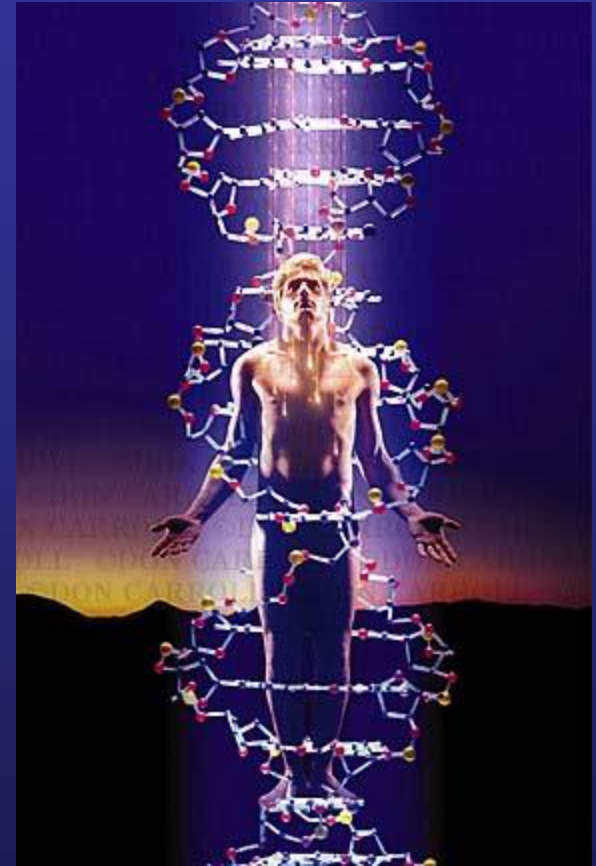
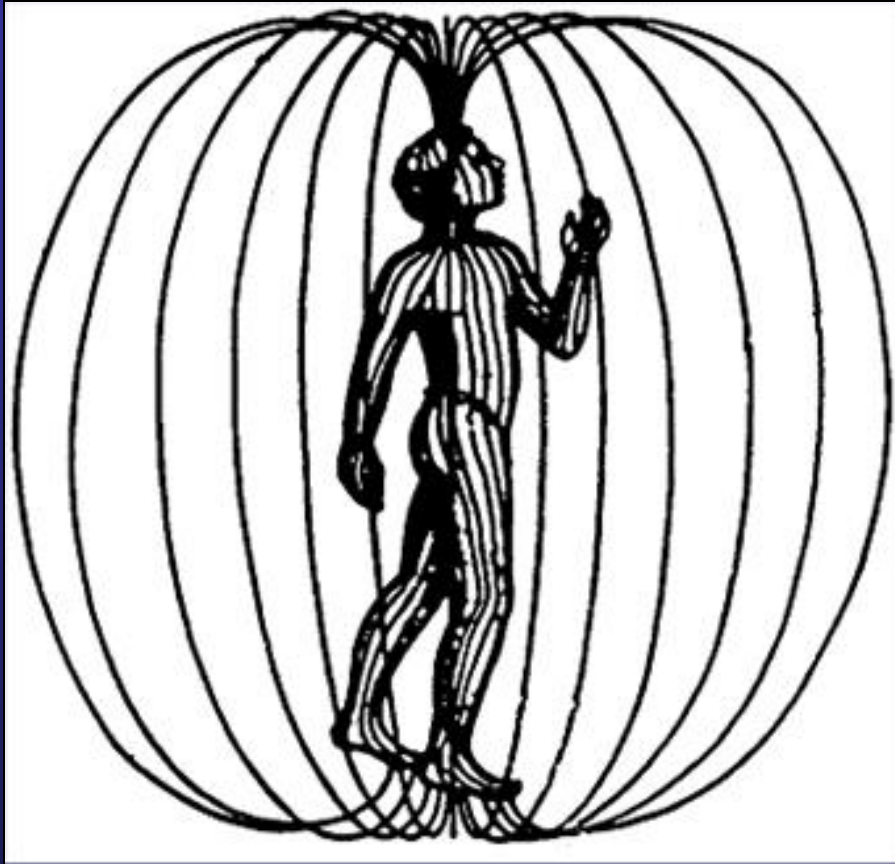
We will watch this video from 6:15 to 9:30.





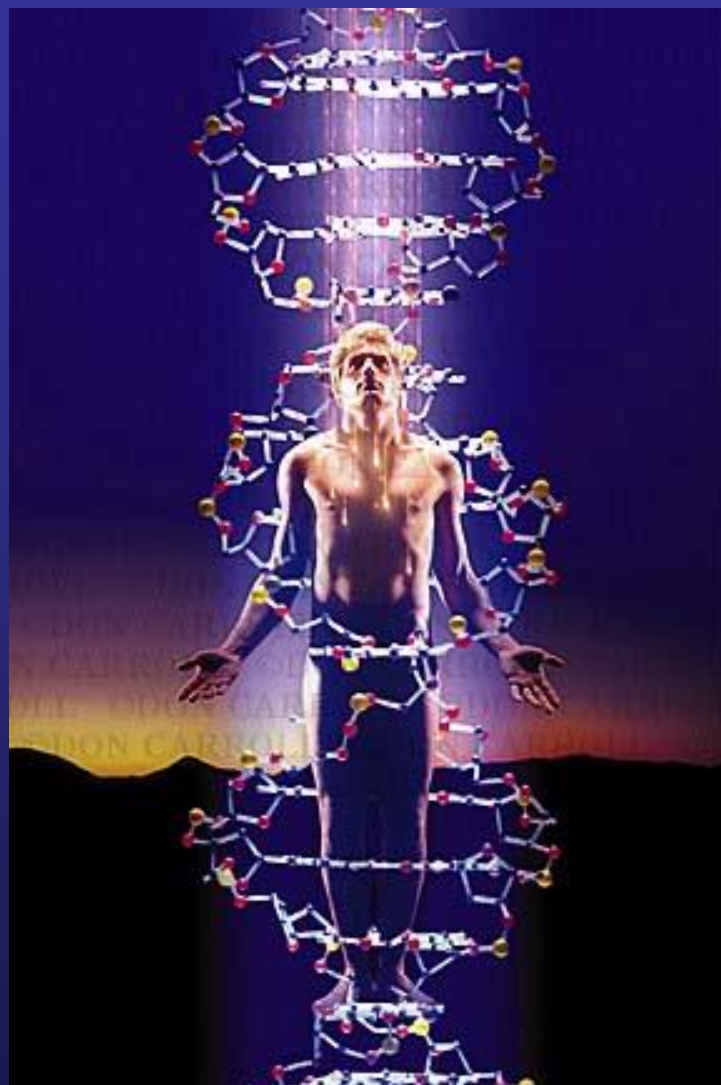
There is a resonance between
the double helical heart and DNA.

Heart - DNA resonance:

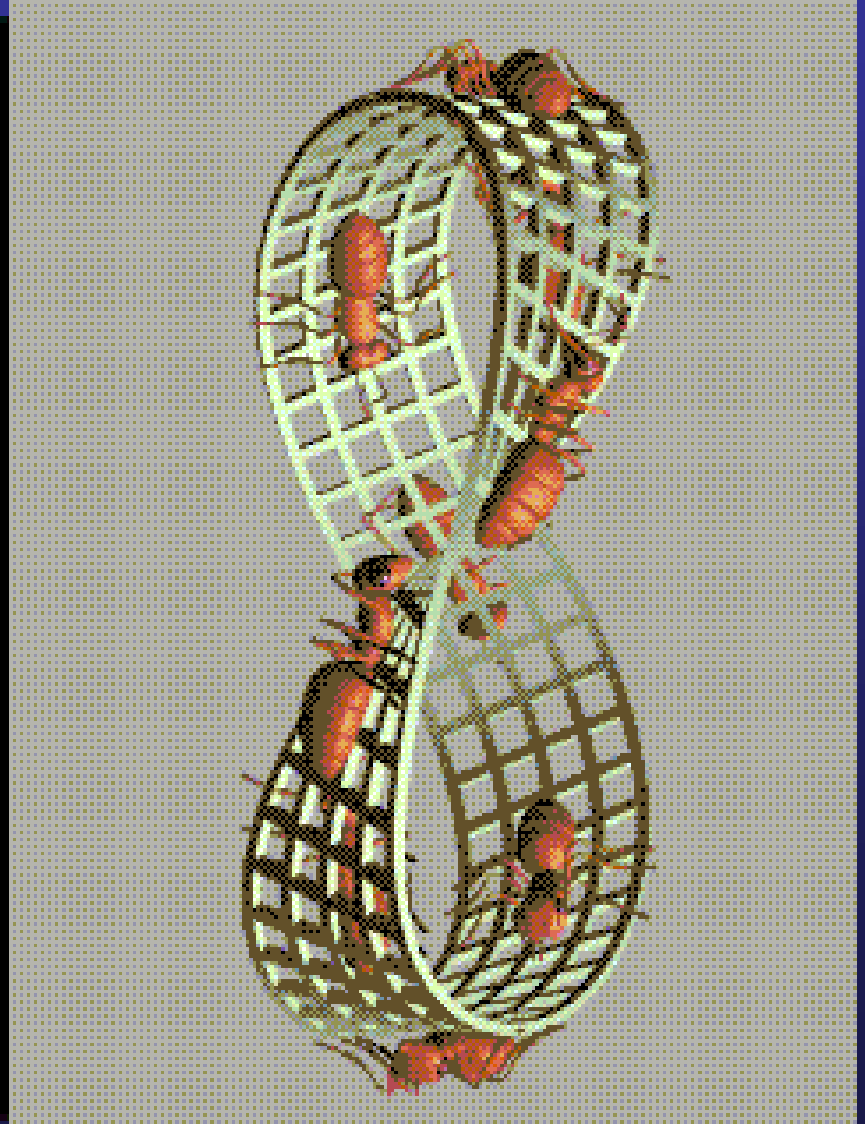
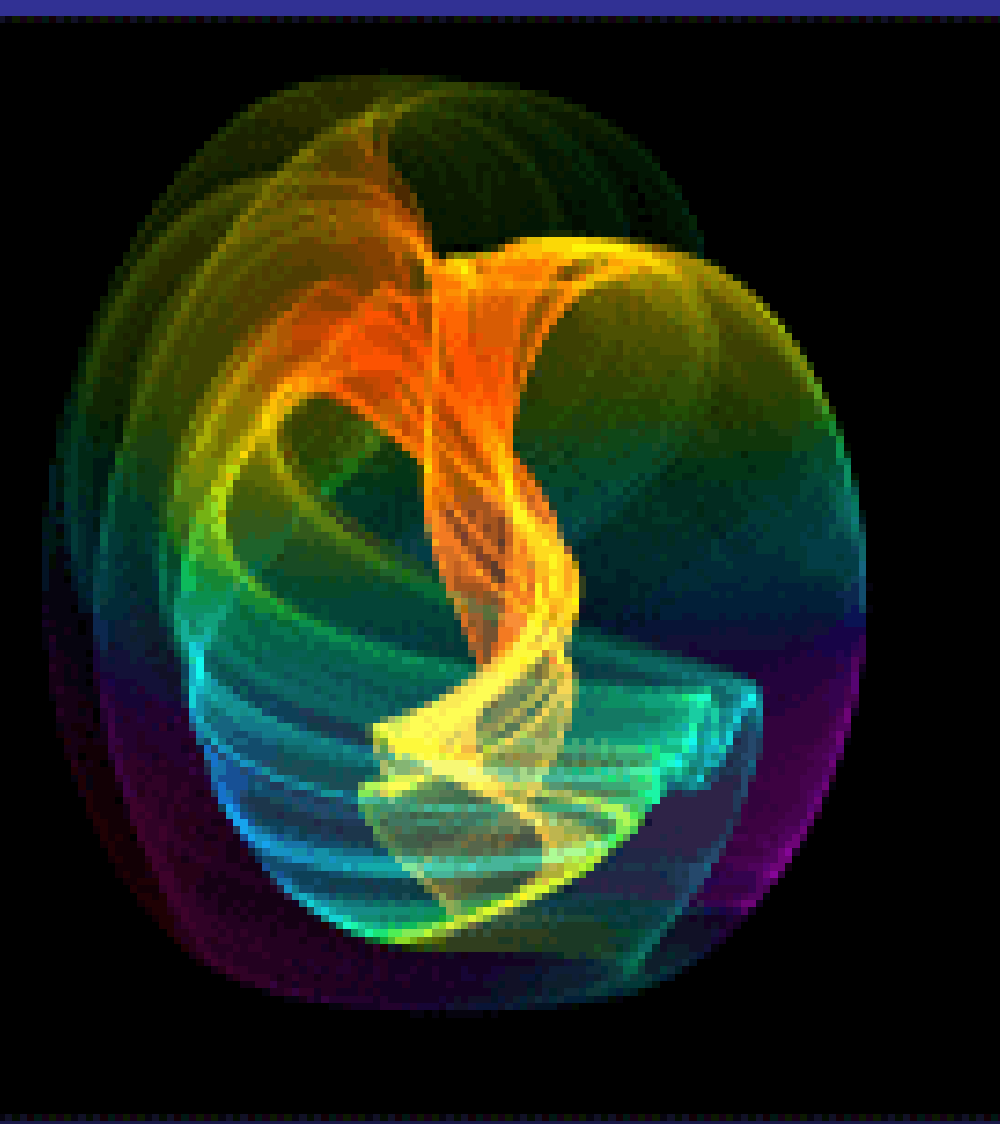




Dr. Glen Rein

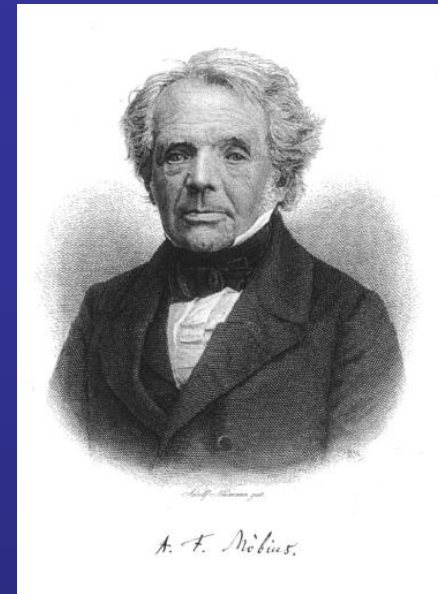
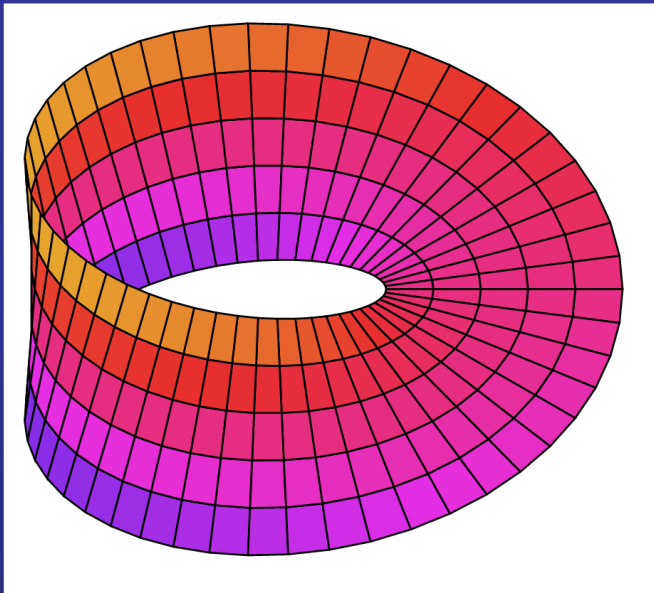


The helical heart, space and time.





This model shows that the three-dimensional ventricular architecture can be regarded as a geometrically non-orientable surface, similar to triple-twisted Möbius strip. A Möbius strip is a one sided surface that is constructed from a three-dimensional rectangle. Twisting this paper-strip for 180° (one or more times) and attaching the ends to one another seems to eliminate one dimension of three dimensional space. This possibility only exists in the curved space—time continuum revealed by Einstein.



August Ferdinand Möbius
(1790–1868)

The Möbius strip or Möbius band was discovered independently by the German mathematicians August Ferdinand Möbius and Johann Benedict Listing in 1858.

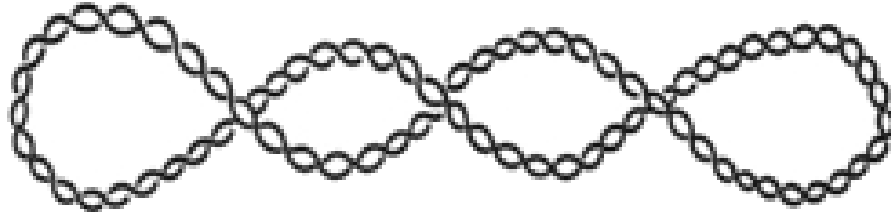
DNA is also a Möbius strip!

Non-classical fields:

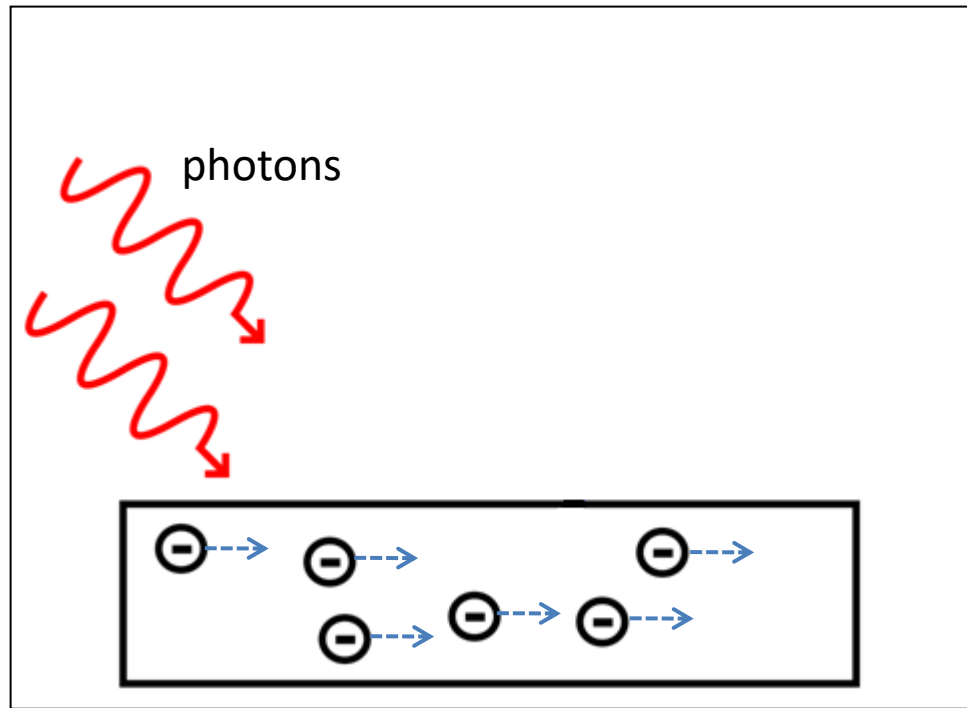
scalar fields

spin fields

torsion fields



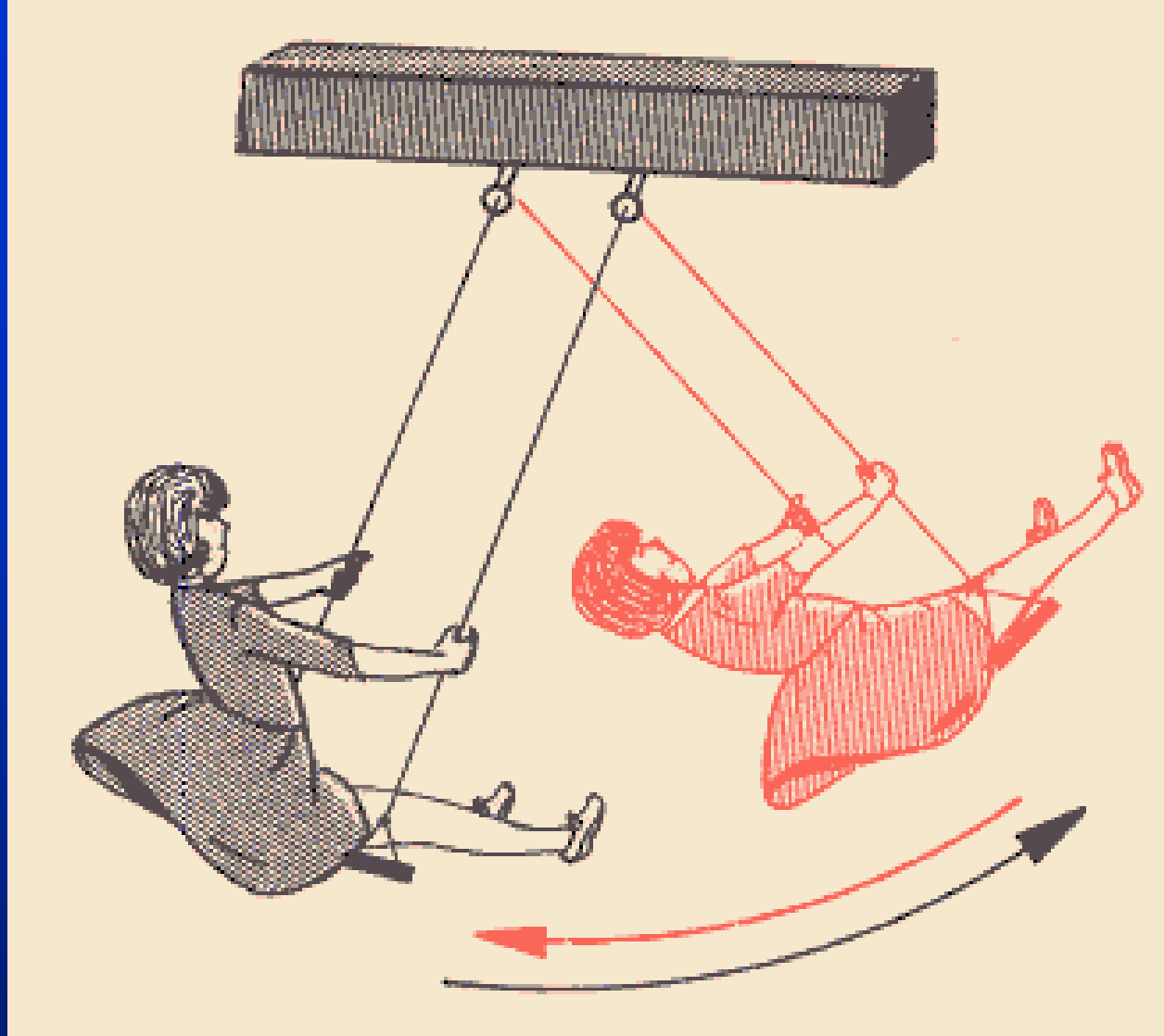
The DNA antenna in mitochondria is a supercoil. These Möbius supercoil DNA molecules are hypothetically able to radiate or absorb scalar fields. Most cells in the body contain thousands of these Möbius supercoils.



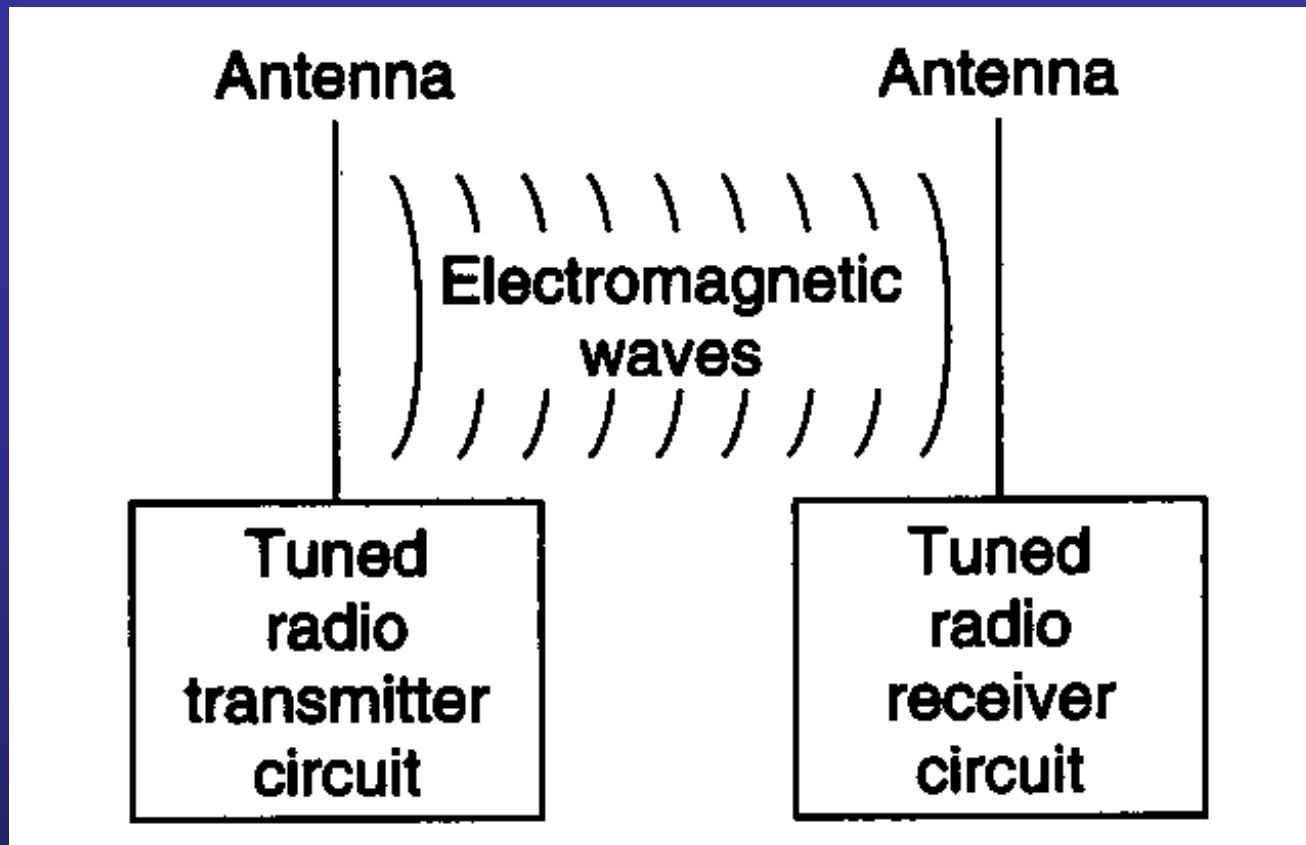
The photoconductive effect:
Light will cause a material to become more electrically conductive.

Resonance:

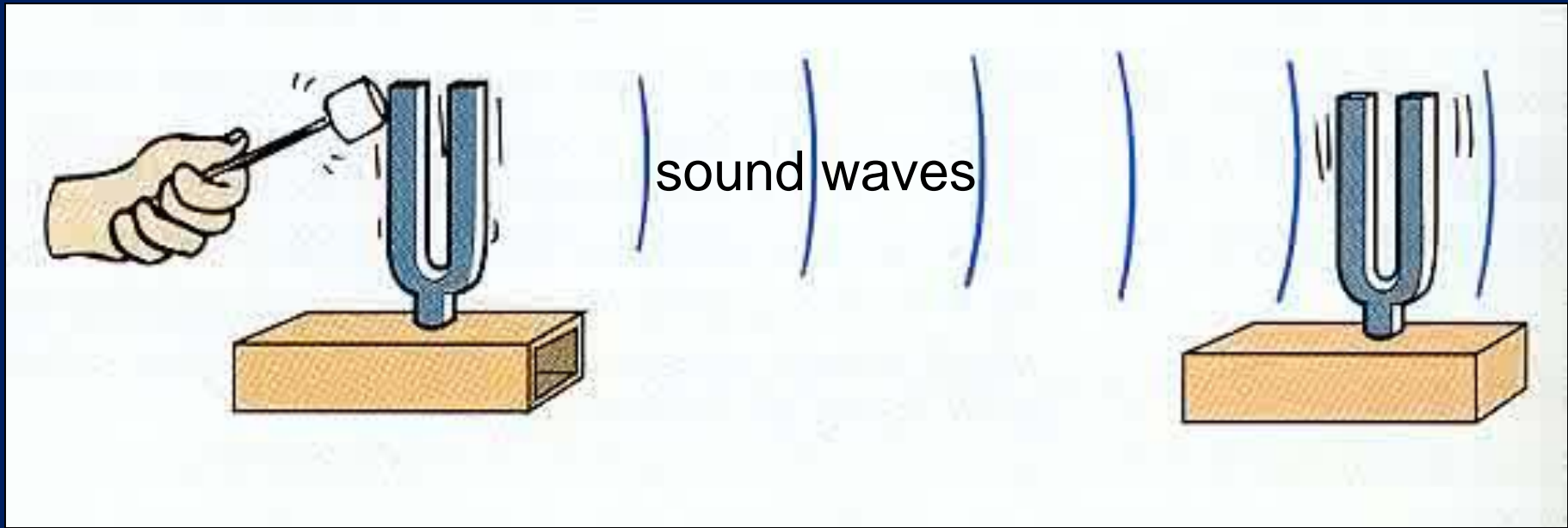
- Resonance: the tendency of any object to oscillate or vibrate at maximum amplitude at certain frequencies, known as the system's resonant or natural frequencies.



Resonance



Resonance enables transmissions of radio signals over very long distances.



Resonance or the tuning-fork effect:
objects do not have to touch to interact.

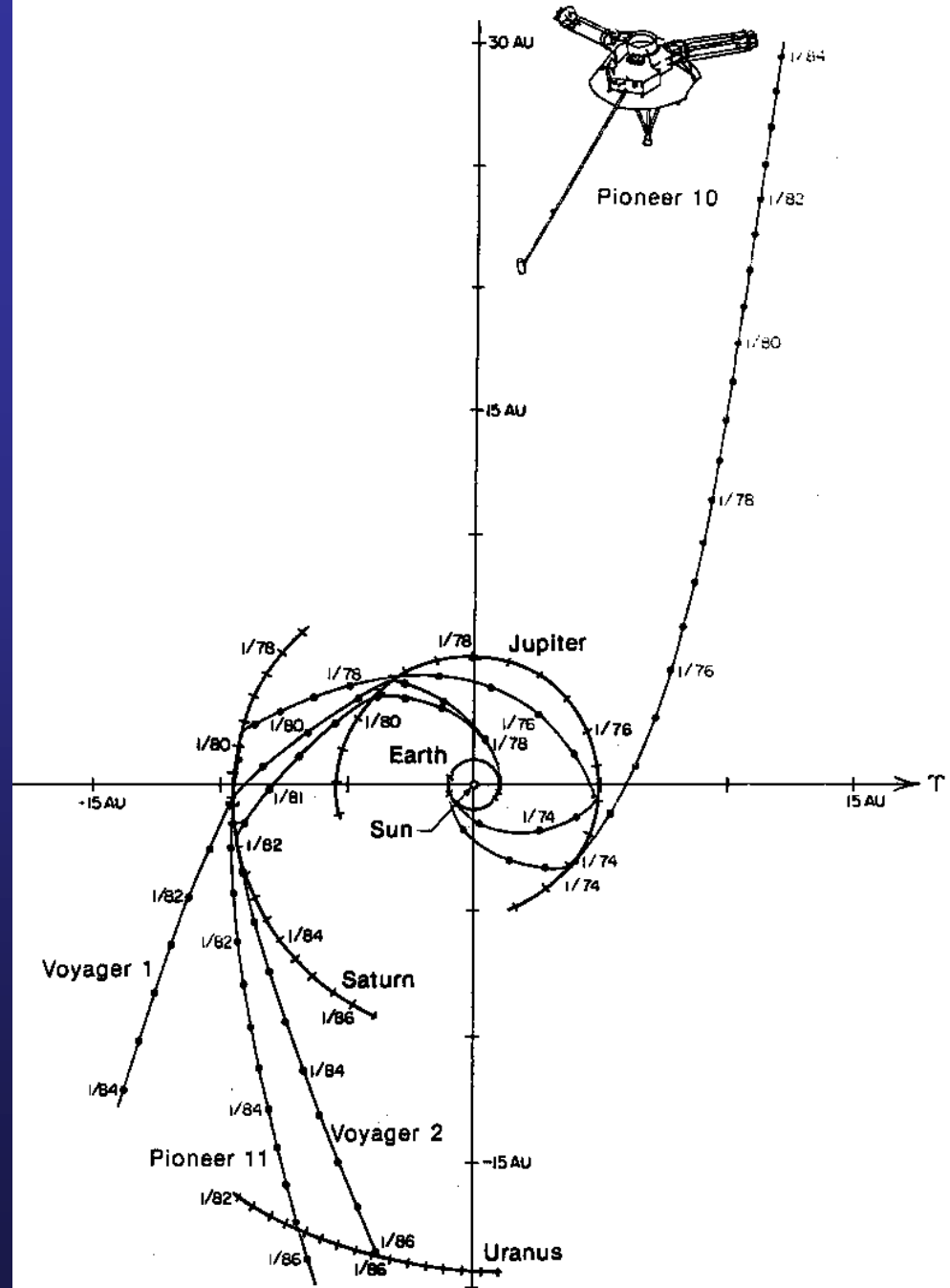


electromagnetic
waves



Resonance or the tuning-fork effect:
molecules do not have to touch to interact.

Pioneer 10 -
the first manmade
object to leave
the solar system.

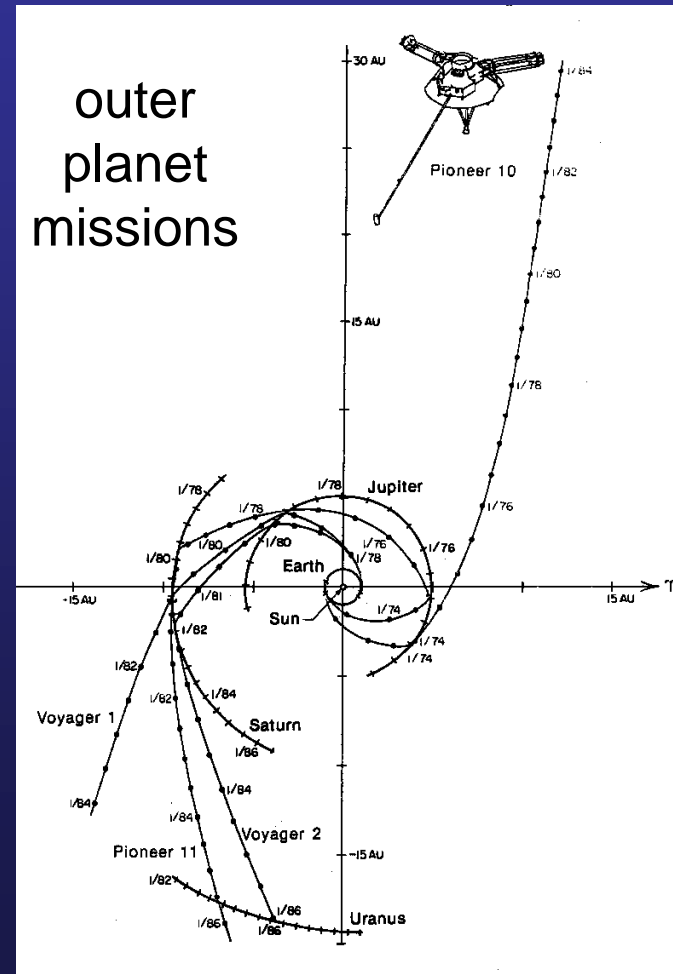


An example of electromagnetic resonance:

USA Today

Monday, March 4, 2002, page 3A

In 1983, Pioneer 10 became the first manmade object to leave the solar system. On the 30th anniversary of its launch, NASA sent a message to Pioneer, which was then 7.4 billion miles away. A response was received 22 hours and six minutes later. Pioneer's last, very weak signal was received on 23 January 2003, when it was 7.6 billion miles away.



Pilot waves

Albert Einstein had a close associate, Hugo (Hans) Martin Tetrode, a Dutch theoretical physicist who made early contributions to statistical physics including the quantisation of the classical gas laws, known as the Sackur-Tetrode equation. In 1922, Tetrode published the following statement:

When I see light from a star 100 light years away, not only do I know that the light was emitted 100 years ago but also a group of atoms in the star “knew” that the light would enter my eye 100 years later, before I even existed!

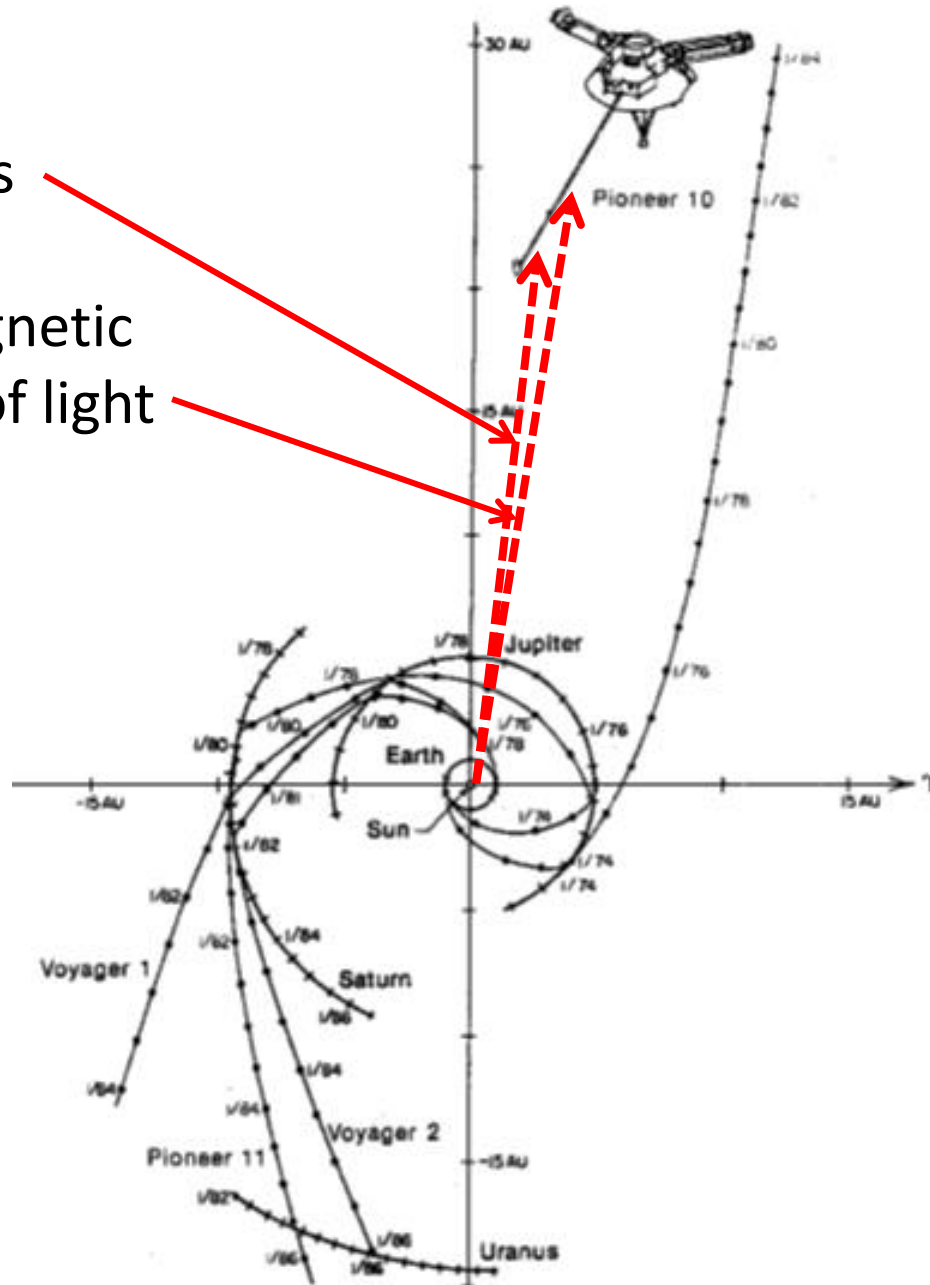
~Hans Tetrode

Zeitschrift für Physik, 10, 317 (1922)

Remarkably, Einstein thought Tetrode was correct.

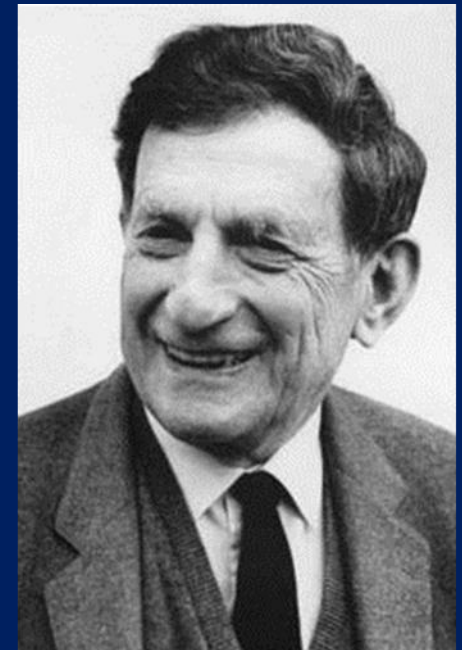
1. Pilot wave-
instantaneous

2. Electromagnetic
wave-speed of light
11 hours.





Louis de Broglie
(1892-1987)



David Bohm
1917-1992

Theoretical physicist

The Guiding Equation:

$$dQ_k/dt = (\hbar/mk) \operatorname{Im} [\psi^* \partial_k \psi / \psi^* \psi] (Q_1, \dots, Q_N)$$

The de Broglie-Bohm theory or the pilot-wave model is a version of quantum theory discovered by Louis de Broglie in 1927 and rediscovered by David Bohm in 1952.



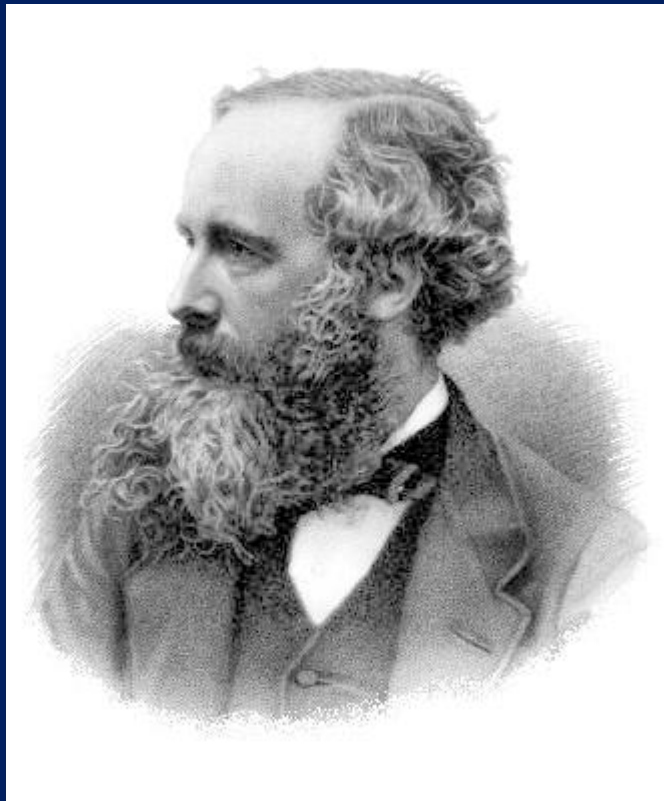
Vortical Structure of Light and Space: Biological Implications

James L Oschman* and **Nora H Oschman**

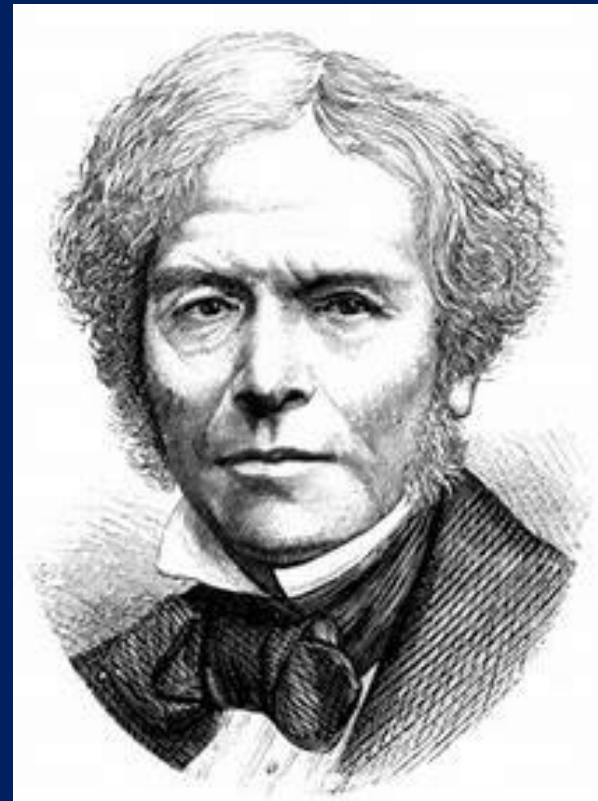
Nature's Own Research Association, Dover, New Hampshire, USA

Vladimir B Ginzburg published 5 books on the vortical structure of space and electromagnetic fields, tracing the repeating cycles as such models went in and out of vogue over the centuries. James Clerk Maxwell and his friend, Michael Faraday supported a vortex theory of electromagnetism with potential fields as the centerpiece.

James Clerk Maxwell



James Clerk Maxwell
1831-1897



Michael Faraday
1791-1867

Faraday never made a serious study of mathematics while Maxwell was a skilled mathematician. However, they developed a common language to enable mathematical conclusions to be expressed in common language “as fully, clearly, and definitely as in mathematical formulae.”

Maxwell's equations

$$\mathbf{B} = \nabla \times \mathbf{A}$$

$$\mathbf{E} = -\nabla \Psi - \frac{1}{c} \frac{\partial \mathbf{A}}{\partial t}$$

$$\mathbf{F} = e\mathbf{E} + \frac{e}{c} \mathbf{v} \times \mathbf{B}$$

$$\mathbf{B} = \mu_0 (\mathbf{H} + \mathbf{M})$$

$$\nabla \times \mathbf{H} = \mathbf{J} + \frac{1}{c} \frac{\partial \mathbf{D}}{\partial t}$$

$$\mathbf{J} = \sigma \mathbf{E}$$

$$\mathbf{D} = \epsilon_0 \mathbf{E} + \epsilon_0 \chi \mathbf{E}$$

$$\mathbf{J}_{\text{tot}} = \mathbf{J} + \frac{1}{c} \frac{\partial \mathbf{D}}{\partial t}$$

$$\mathbf{B} = \mu_0 \mathbf{H}$$

$$\mathbf{e} = \nabla \times \mathbf{A}$$

$$\mathbf{m} = \nabla \times \mathbf{M}$$

$$\mathbf{H} = -\nabla \Omega$$

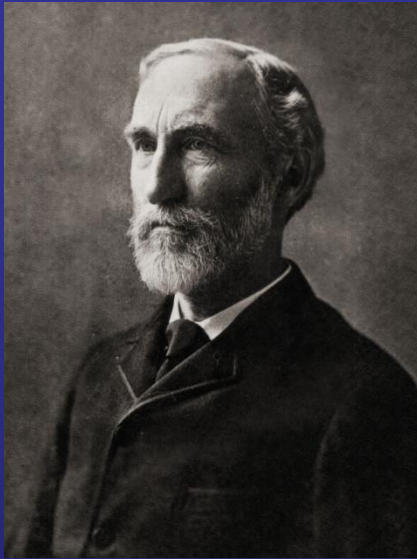
Name	Differential equations
Gauss's law	$\nabla \cdot \mathbf{E} = \frac{\rho}{\epsilon_0}$
Gauss's law for magnetism	$\nabla \cdot \mathbf{B} = 0$
Maxwell–Faraday equation (Faraday's law of induction)	$\nabla \times \mathbf{E} = -\frac{\partial \mathbf{B}}{\partial t}$
Ampère's circuital law (with Maxwell's addition)	$\nabla \times \mathbf{B} = \mu_0 \left(\mathbf{J} + \epsilon_0 \frac{\partial \mathbf{E}}{\partial t} \right)$

In 1865 Maxwell published his seminal theory of electromagnetism, *A Dynamical Theory of the Electromagnetic Field*. His 20 equations describing the electromagnetic field consisted of three equations each for magnetic force, electric currents, electromotive force, electric elasticity, electric resistance, total currents; and one equation each for free electricity and continuity.

Maxwell expressed electromagnetism with quaternion mathematics and made the electromagnetic potential the centerpiece of his theory. Faraday and Maxwell had agreed that the potentials were the real movers in electricity, magnetism, and electromagnetism, causing things to happen like the puppets are moved by the invisible puppeteers behind a curtain.

In his final classic paper on the electromagnetic field Maxwell left out vortex models and used 20 quaternion equations. Two years after Maxwell's early death (he was only 48 years old), Oliver Heaviside replaced the quaternions with vector algebra, and eliminated the potential fields as "arbitrary" and unnecessary. By the end of the 1800's the Maxwell equations had been reduced from the original 20 to the 4 we find in physics texts today.

Scalar: What are we talking about?



Josiah Gibbs
1839 -1903



Karl Friedrich Gauss
1857-1894



Oliver Heaviside
1850-1925

According to Heaviside, the electromagnetic potential was arbitrary and needed to be eliminated. In the end, Heinrich Hertz, Josiah Gibbs and Oliver Heaviside prevailed. **They deleted the potential concepts that both Faraday and Maxwell had considered the most important features of the theory of electromagnetism.**

Deleting the potentials from Maxwell's equations deprived physics, biology and medicine of important useful tools for nearly a century.

As a result, some of the most pressing and unsolved mysteries related to health and disease persist, and some powerful healing technologies were bypassed because there was no adequate electrodynamic theory to explain and advance them.

The potential fields were revived by the classic study of the Aharonov–Bohm effect:

Aharonov, Y; Bohm, D (1959).

"Significance of electromagnetic potentials in quantum theory". *Physical Review*. 115: 485–491.

Aharonov, Y; Bohm, D (1961). "Further Considerations on Electromagnetic Potentials in the Quantum Theory". *Physical Review*. 123: 1511–1524.

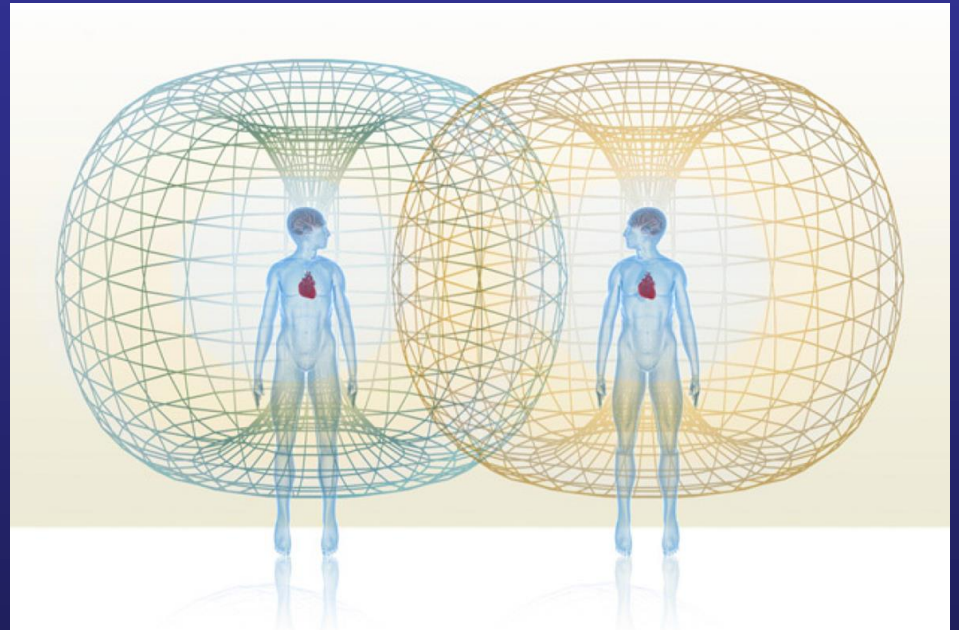
https://en.wikipedia.org/wiki/Aharonov%E2%80%93Bohm_effect

Atomic magnetometer:

A few years ago Paul Mawson, from one of the major semiconductor companies, approached me for advice for a project he was working on. He had met Valerie Hunt, and she had inspired him to develop a device that could replace the stethoscope. Instead of listening to heart beats, it would show a real-time image of the biofield of the heart. I met Paul again and eventually he sent me information on the system he had developed with Rahul Mhaskar. Paul gave me a link to a nice video of the device in operation. I copied the following illustrations from that video. I am glad I did because the video is no longer available. Link below shows device:

<http://mfam.geometrics.com/>

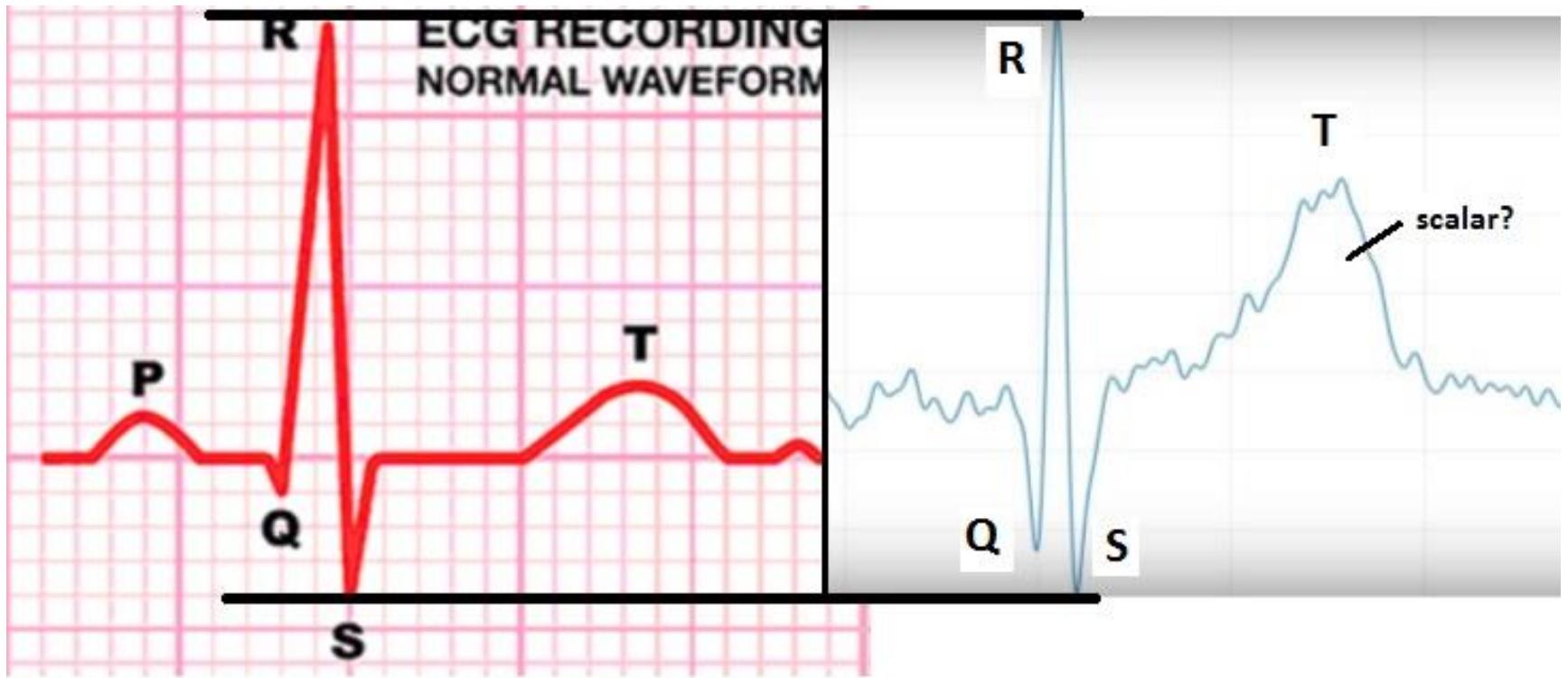
A new stethoscope:



Instead of listening to the heart sounds, it would show the biomagnetic field of the heart.

Detecting scalar fields from the heart with a scalar atomic magnetic sensor

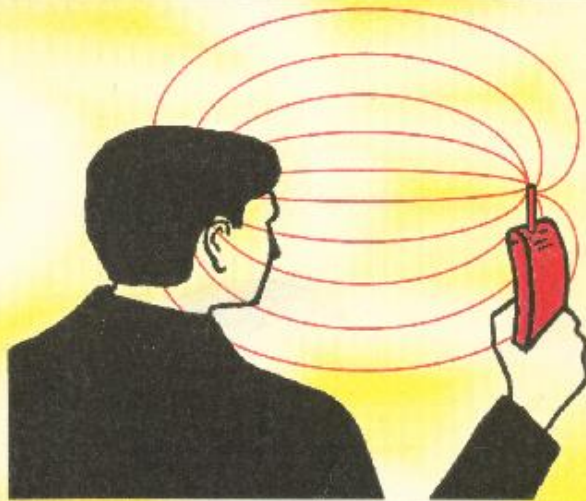




The T-wave is produced by the repolarization of the ventricle.

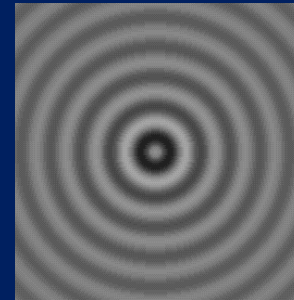
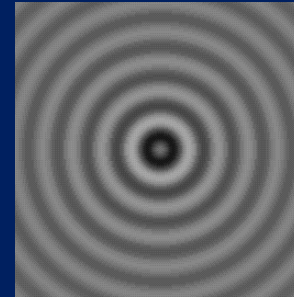
Konstantin Meyl

Scalar waves



From an extended vortex and field theory
to a technical, biological and historical use
of longitudinal waves.

Edition belonging to the lecture and seminar
„Electromagnetic Environmental Compatibility“

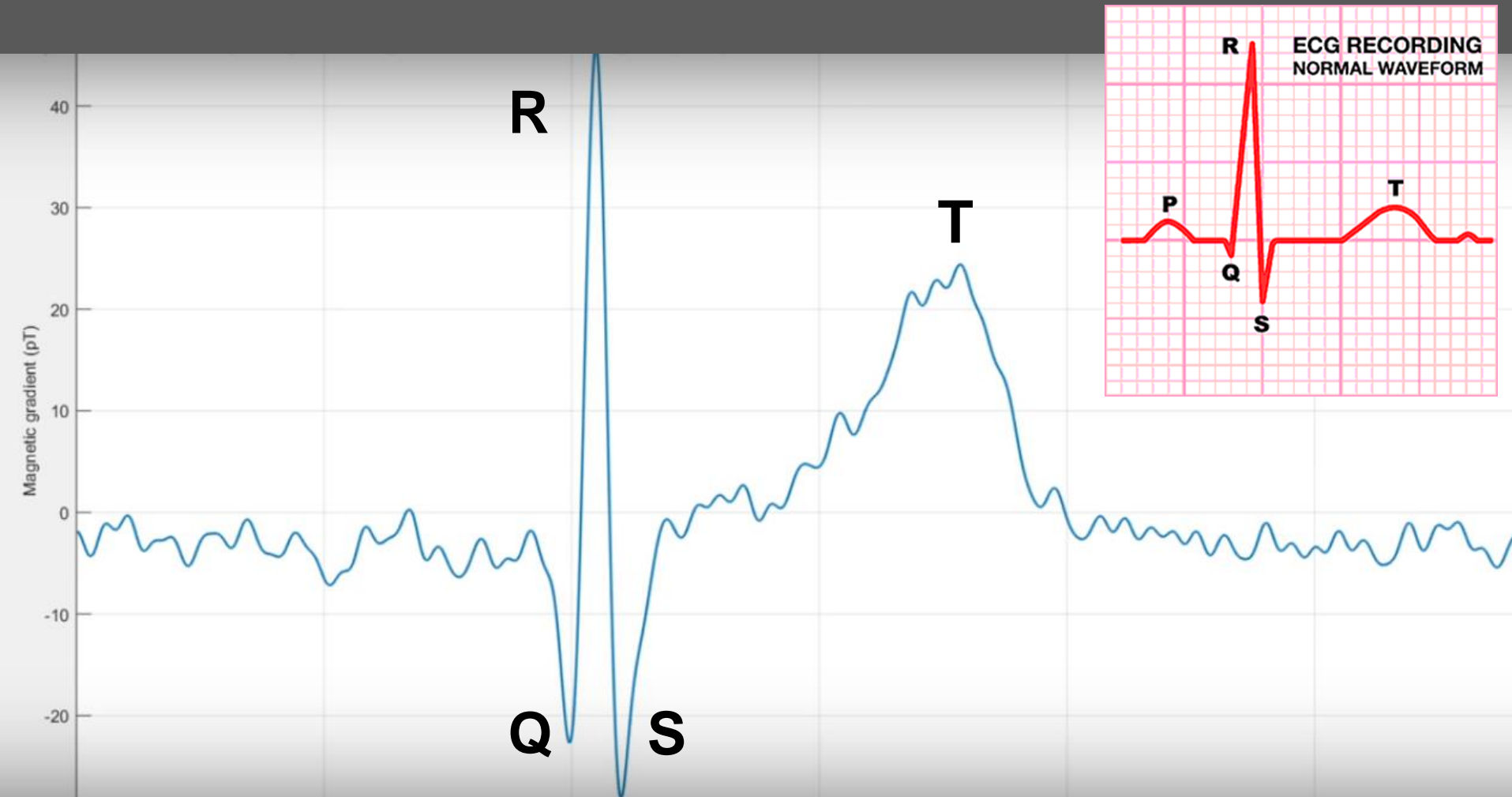


These are
scalar waves.

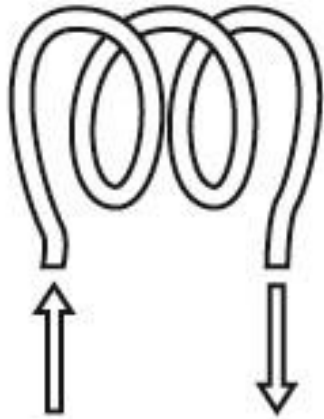
www.k-meyl.de

www.meyl.eu

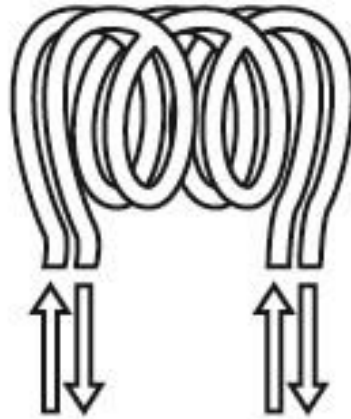
Scalar fields projected by the heart:



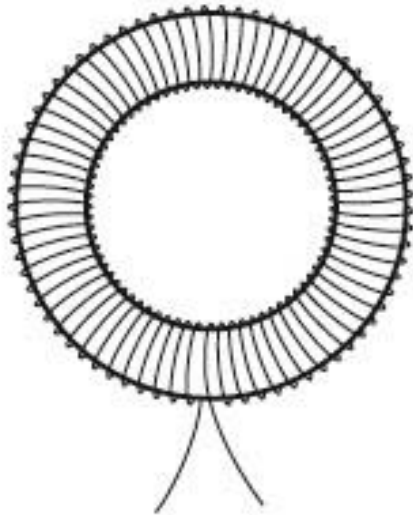
Comparing the scalar and electrical fields suggests that much of the T-wave may be scalar.



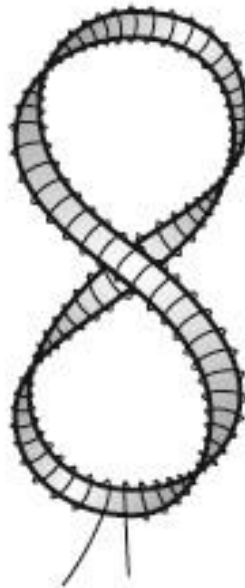
Standard coil



Bifilar coil



Torroid



Möbius coil

Scalar field antennas.



Vortex Science and Technology

Oschman and Oschman, J Vortex Sci Technol 2015, 2:1
<http://dx.doi.org/10.4172/2090-8369.1000112>

Opinion

Open Access

Vortical Structure of Light and Space: Biological Implications

James L Oschman* and **Nora H Oschman**

Nature's Own Research Association, Dover, New Hampshire, USA

<https://www.researchgate.net/publication/275221950> Vortical
Structure of Light and Space Biological Implications



Vortex Science and Technology

Oschman and Oschman, J Vortex Sci Technol 2015, 2:2

<http://dx.doi.org/10.4172/2090-8369.1000121>

Perspective

Open Access

The Heart as a Bi-directional Scalar Field Antenna

Oschman JL* and Oschman NH

Nature's Own Research Association, Dover, New Hampshire, USA

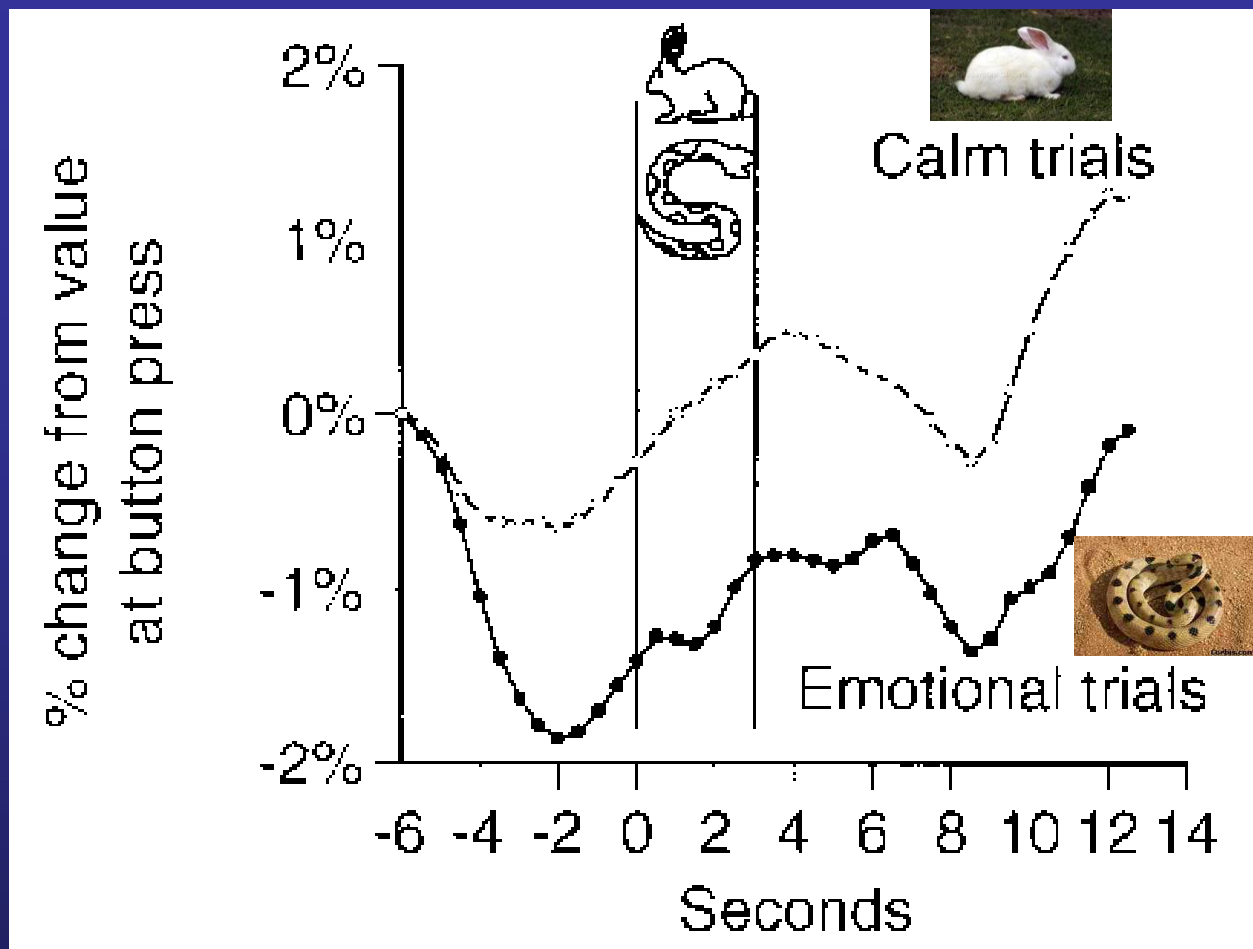
<https://www.researchgate.net/publication/283660858>
The Heart as a Bi-directional Scalar Field Antenna

A possible relationship between
the heart, mind, and space. And
a possible basis for intuition,
clairvoyance and the morphic
field?

*Our research shows that the mind
is constantly scanning several
seconds into the future.
Measurable physiological changes
arise in the heart
before they arise in the brain.*

~Rolland McCraty

*Journal of Alternative and Complementary Medicine 2004:
Volume 10 (1) and (2)*



- A significantly greater heart rate deceleration occurred prior to future emotional stimuli compared to calm stimuli.
- The heart is involved in the processing and decoding of intuitive information.
- Females appear to be more more attuned to intuitive information from the heart than males.

*The heart's field may be linked
to a more subtle energetic
field that contains information
on objects and events remote
in space or ahead in time.*

~Rolland McCraty

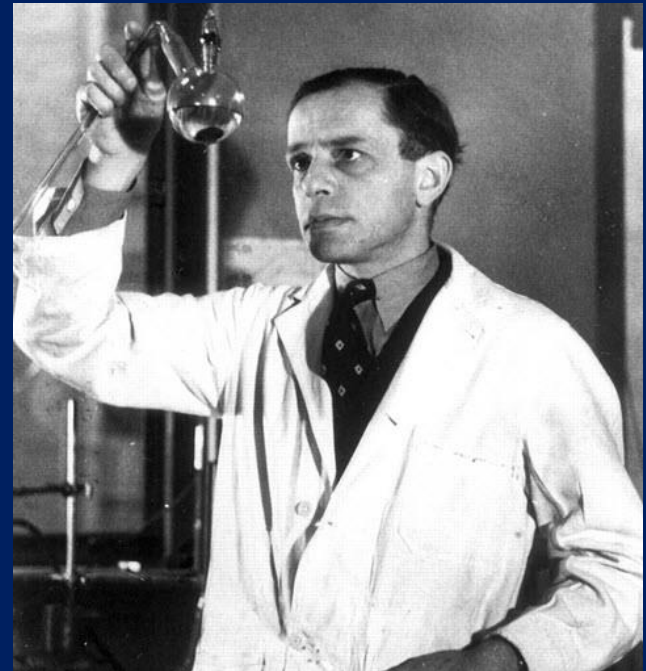
The blueprint of life

Why would Syntonic practitioners be interested in life's blueprint?

When radioactive isotopes became available for the first time for biological research, it was possible to do far-reaching experiments described in an important little book published in 1942 with the title "*The Dynamic State of Body Constituents*." It contained three Dunham Lectures that had been presented at Harvard University by Rudolf Schoenheimer, M.D, of Columbia University.



In these lectures, Schoenheimer described his pioneering studies using isotopes to label organic compounds that could be incorporated into the diets of animals. The radioactive isotopes could be traced to see if the compounds appeared in the tissues of the animal or were excreted.



Rudolf Schoenheimer MD
1898-1941

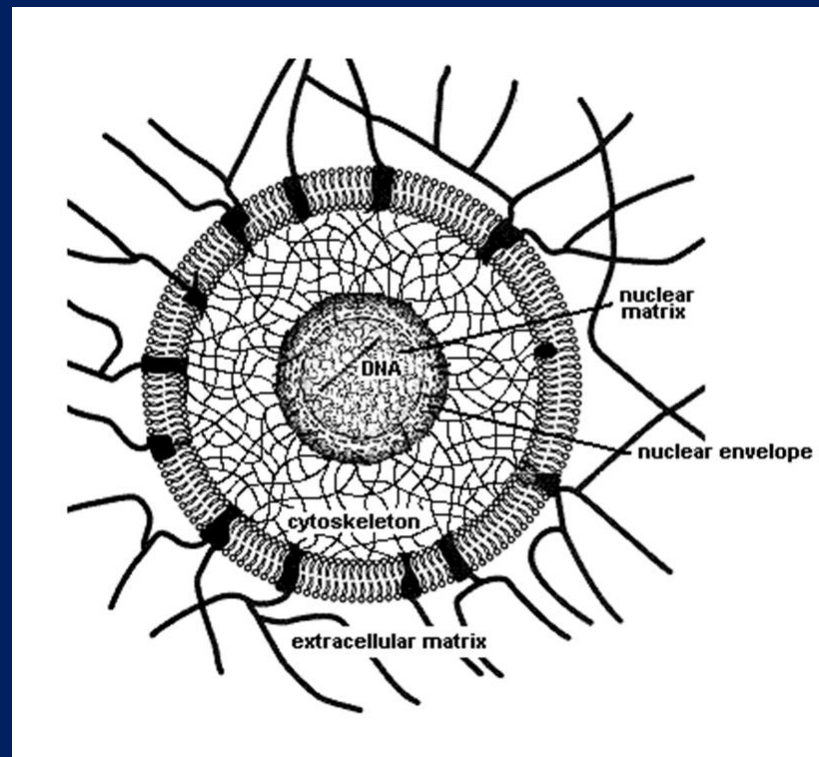
Schoenheimer's results were totally surprising.

In the past, biologists had regarded the structure of the adult body as relatively fixed and permanent, although a few scientists had introduced the notion that a small portion of the dietary intake might be used to repair and replace structures that undergo wear and tear. To their great surprise, Schoenheimer and his colleagues discovered that a very large fraction of the isotopically-labeled compounds provided in the diet were rapidly incorporated into the tissues.

In 1979, Sarah Ratner, a colleague of Schoenheimer, reviewed the way his discoveries evolved after his initial research.

Schoenheimer had developed a concept of "metabolic regeneration" that has stood the test of time. The large molecules in the body, such as fats and proteins, are constantly being assembled and disassembled. The various bonds or linkages that hold them together are constantly being opened, enabling their building blocks (fatty acids and amino acids, respectively) to be liberated. The fragments then enter what has been called the metabolic "pool," which is also fed by absorption of the same materials from the digestive tract.

Ratner, S., 1979. The dynamic state of body proteins. Ann. N.Y. Acad. Sci. 325:189-209.



The metabolic pool is located within the sponge-like interstices of the meshwork of the living matrix. Some of the molecules in this pool are degraded and excreted, while others are reassembled back into the large molecules.

All of the reactions involved are balanced so precisely that the body components remain nearly constant in quantity, position, and structure. The lytic or degradative enzymes that take structures apart are balanced by synthetic or generative reactions.

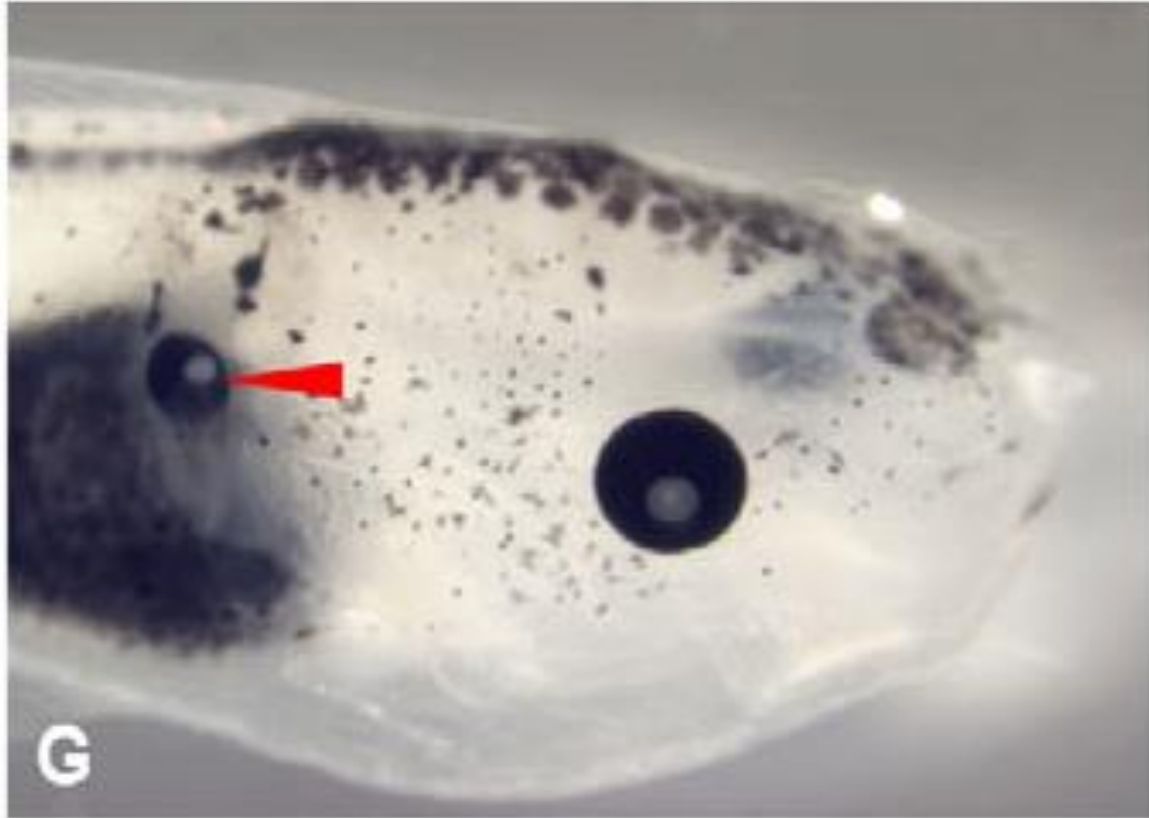
And these lytic and synthetic enzymes are themselves proteins that are constantly being assembled and taken apart. The process is controlled by the cell nucleus, which fine-tunes the rates of production and degradation of the enzymes.

Michael Levin



Cancer can be viewed as a disease of geometry. Tumor tissue results from growth, which is not patterned appropriately, because it is unable to perceive or execute morphogenetic cues.

Electromagnetic fields are an integral part of information flows in some morphogenetic processes.



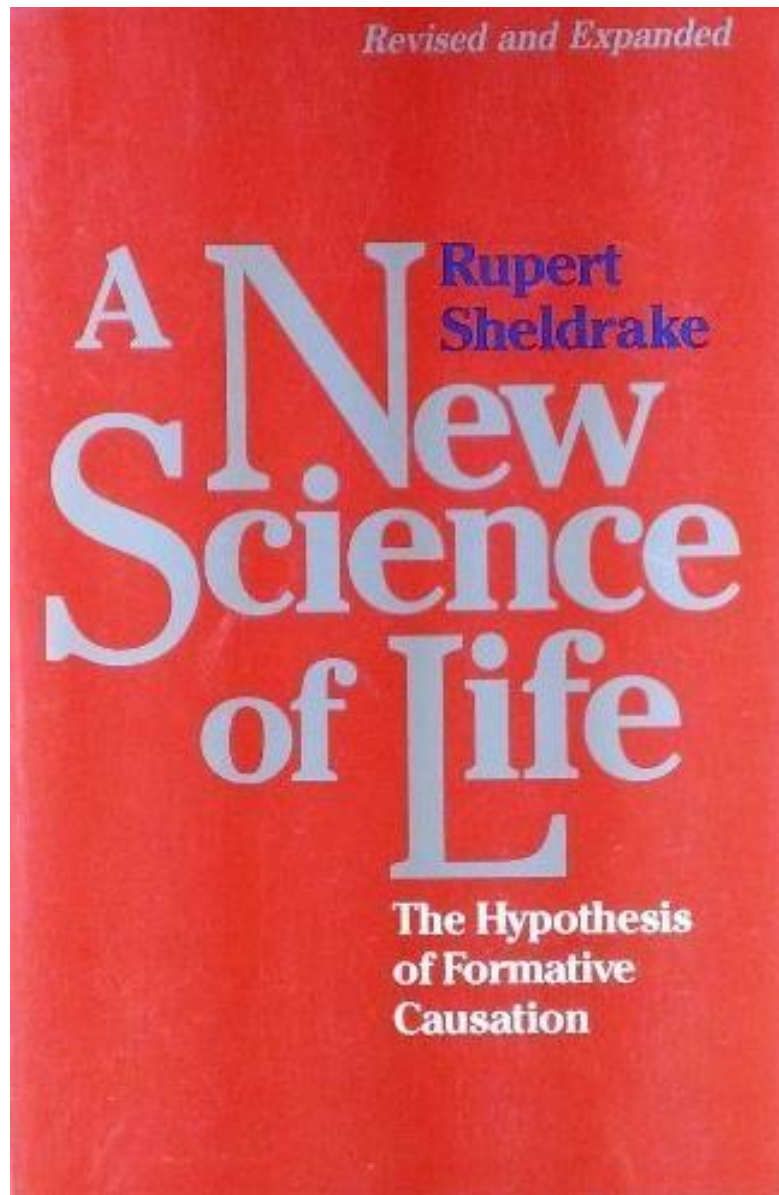
Ectopic eye tissue in tail

Pai, Aw, Shomrat, Lemire & Levin, 2012. Transmembrane voltage potential controls embryonic eye patterning in *Xenopus laevis*. *Development* 139, 313-323.

Morphogenetic fields



Rupert Sheldrake:
Memory and morphology
depend on morphic resonance –
a resonance across time.



First published
1981

A Revised and Expanded Edition of *A New Science of Life*

MORPHIC RESONANCE

THE NATURE OF FORMATIVE CAUSATION

"Rupert Sheldrake's contributions will be
recognized one day on the same level
as those of Newton and Darwin."

DEEPAK CHOPRA

RUPERT SHELDRAKE

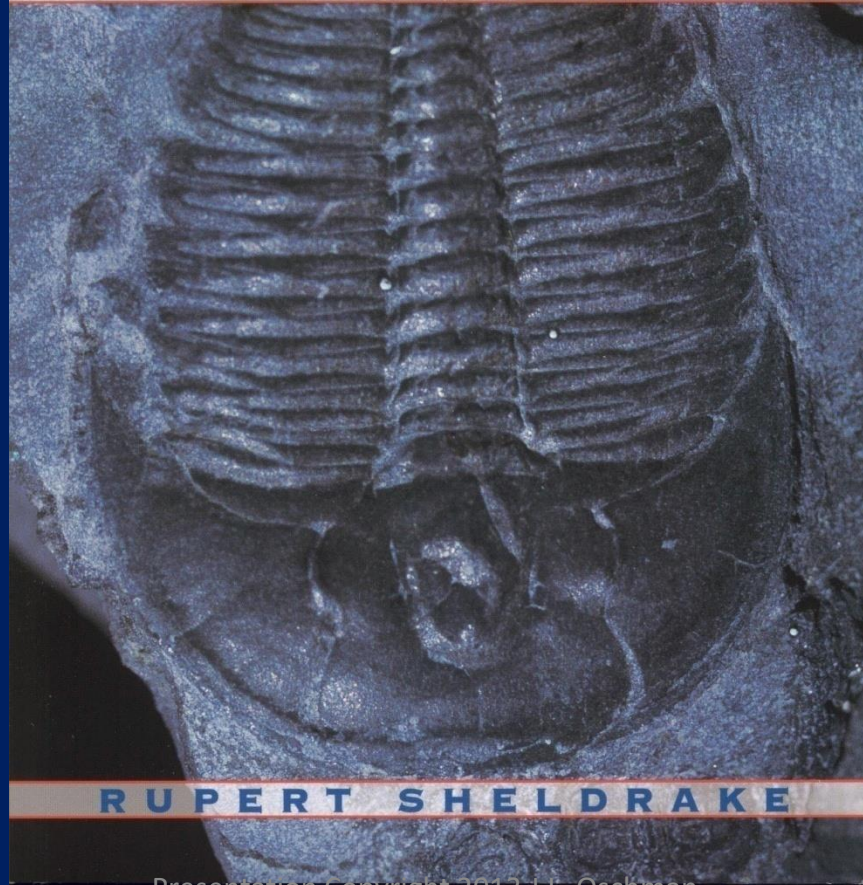
"Engaging, provocative . . . a tour de force."

New Scientist

MORPHIC RESONANCE &

THE PRESENCE OF THE PAST

THE HABITS OF NATURE



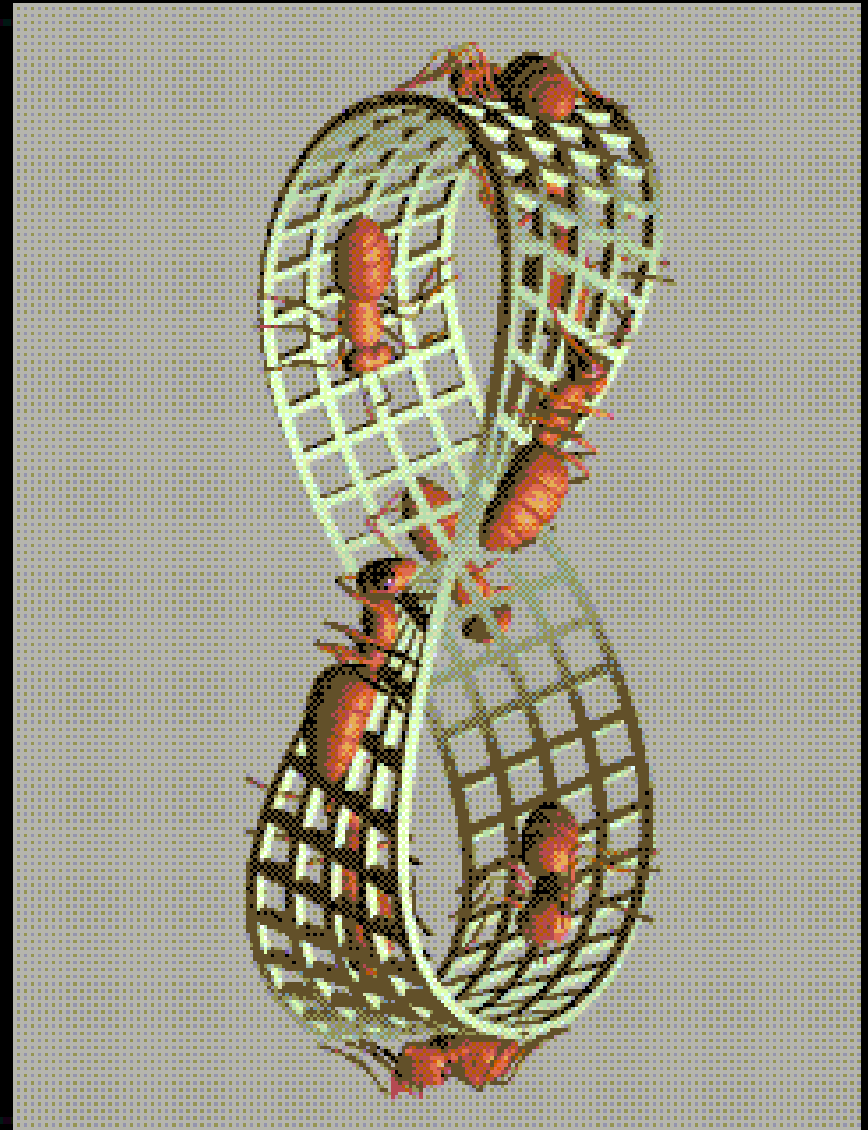
RUPERT SHELDRAKE

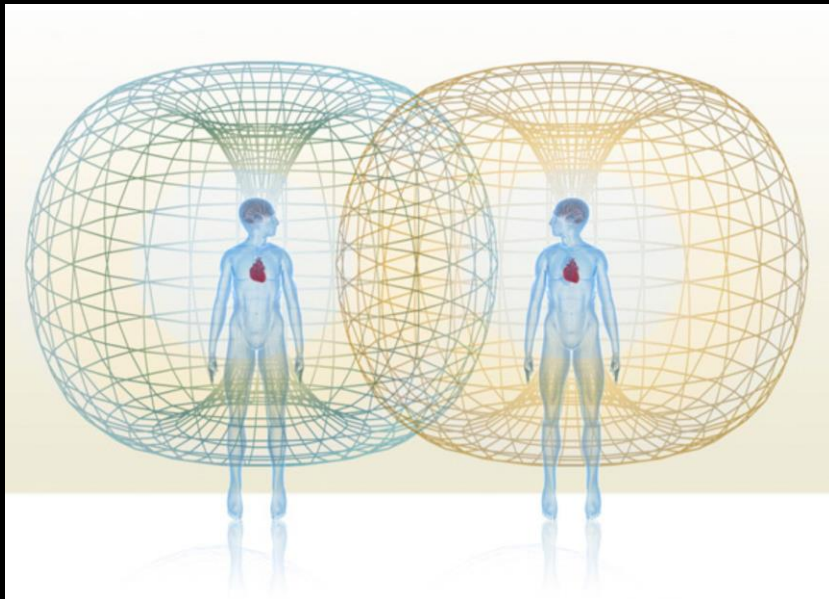
Presentation Copyright 2013 J.L. Oschman

Rupert Sheldrake: New Science of Life

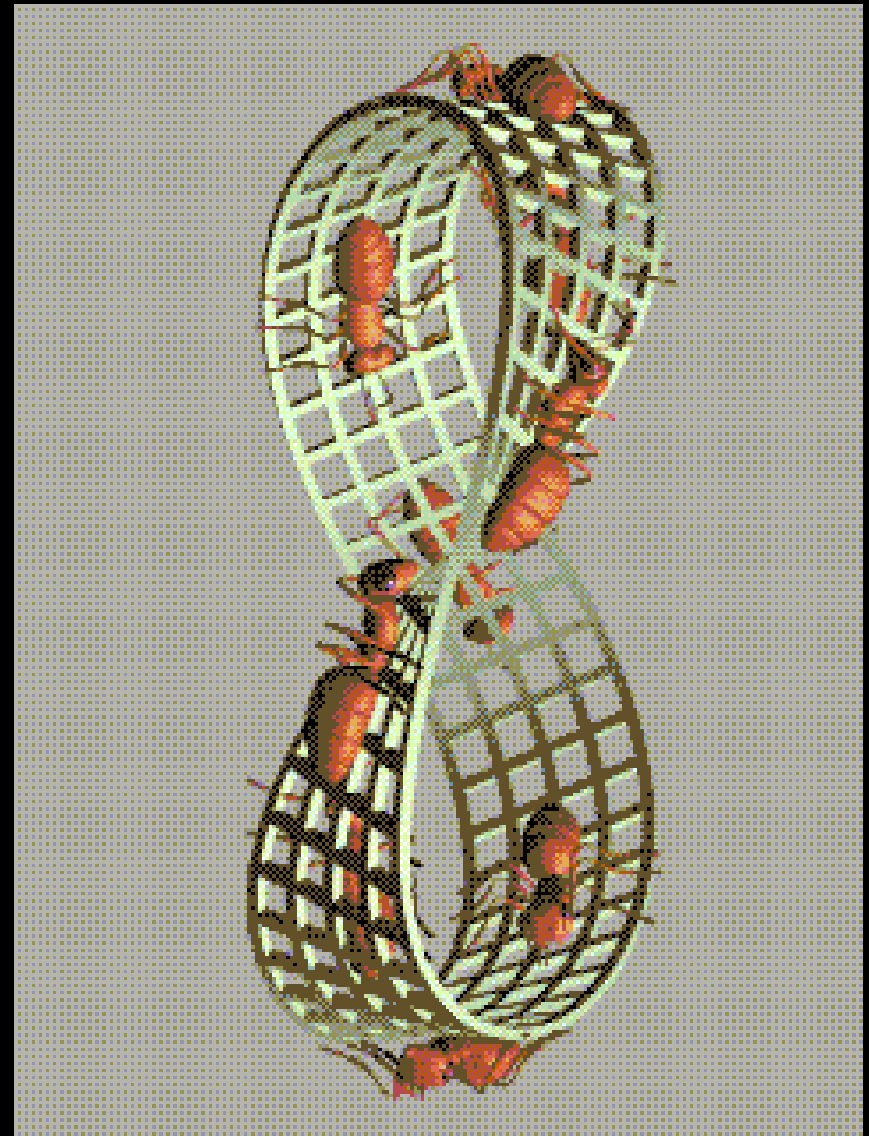
- Morphogenetic fields give rise to all forms.
- Matter assumes form when it resonates with a field.
- The fields involved are not classical electromagnetic fields.
- Morphogenetic fields are derived from a body's own past actions and from the structures and actions of ancestors.
- Fields act across space and time.

The helical heart, space and time.



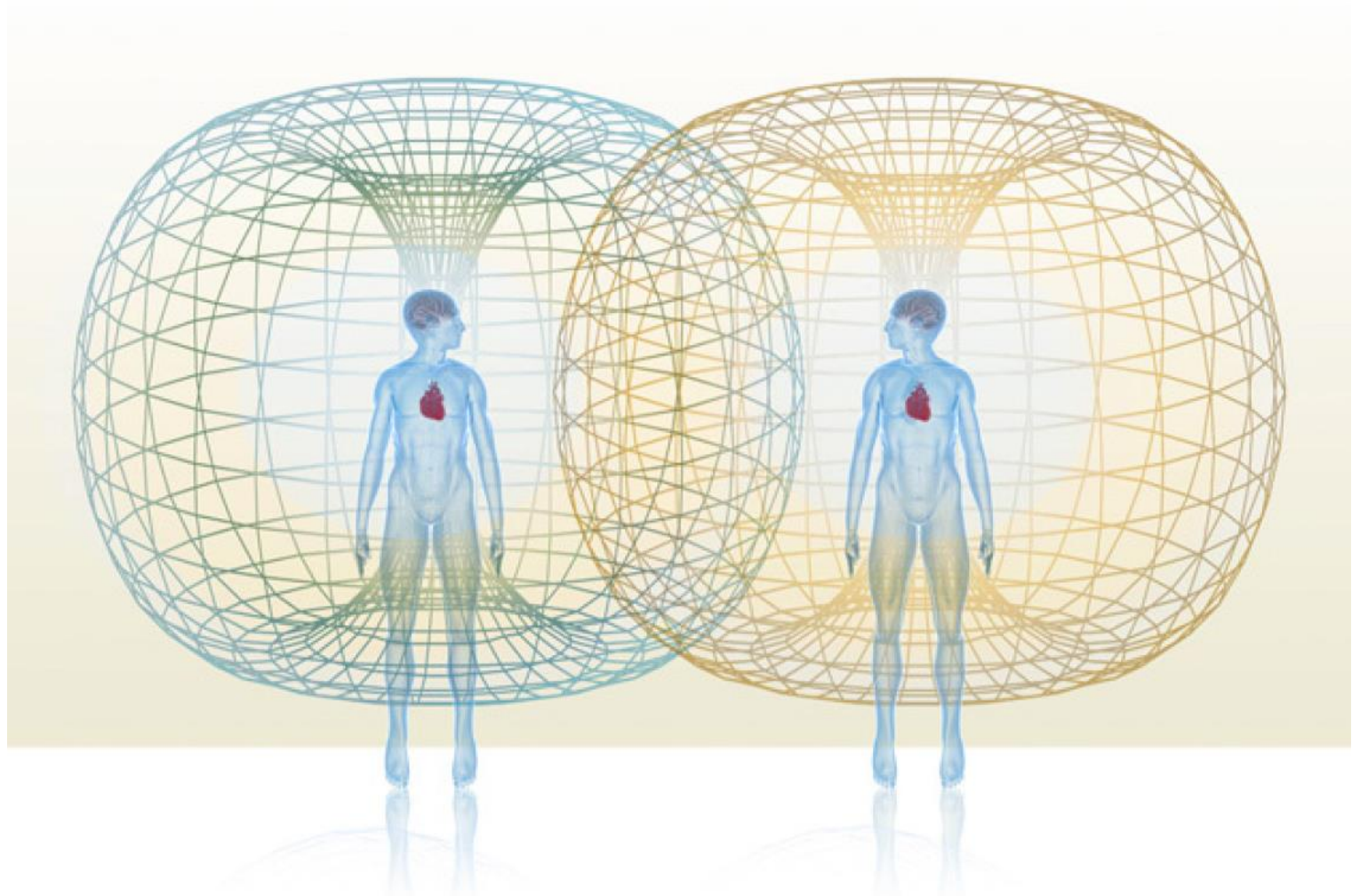


As a bi-directional Möbius structure, the human heart seems suited for linking holographic organisms to each other and to a holographic environment, and vice versa, via scalar fields.



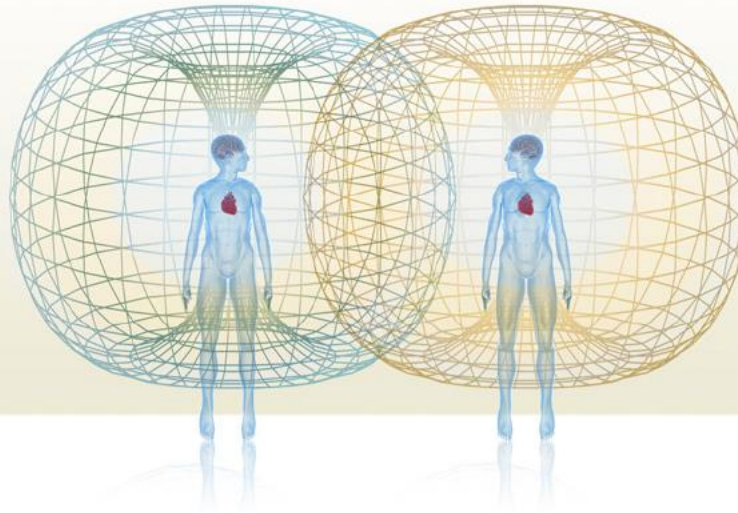
Energetic hygiene –
fields of the heart

Our hearts are bi-directional antennas.
We are immersed in each other's fields.
Our thoughts affect all parts of our bodies
and those around us.



The Energetic Heart

GCI Edition



INSTITUTE OF HEARTMATH®

Connecting Hearts and Minds

<https://www.heartmath.org/assets/uploads/2015/02/the-energetic-heart-gci-edition.pdf>

Presentation Copyright 2015 J.L.
Oschman

Small is powerful,
less is more!



Or:

Why use a hammer when a
feather will work better!





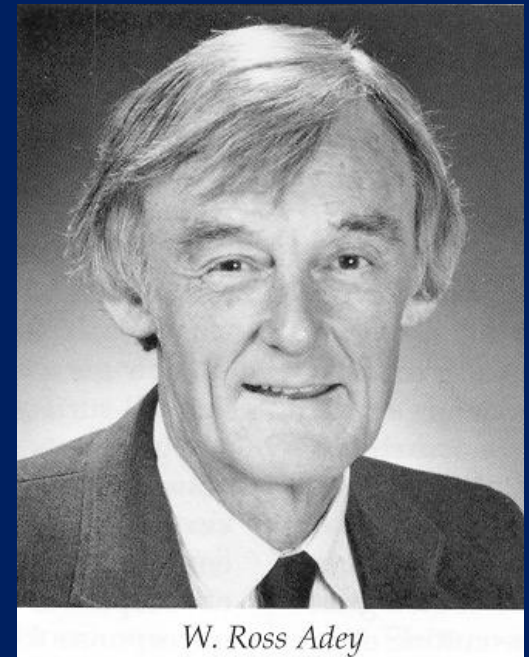
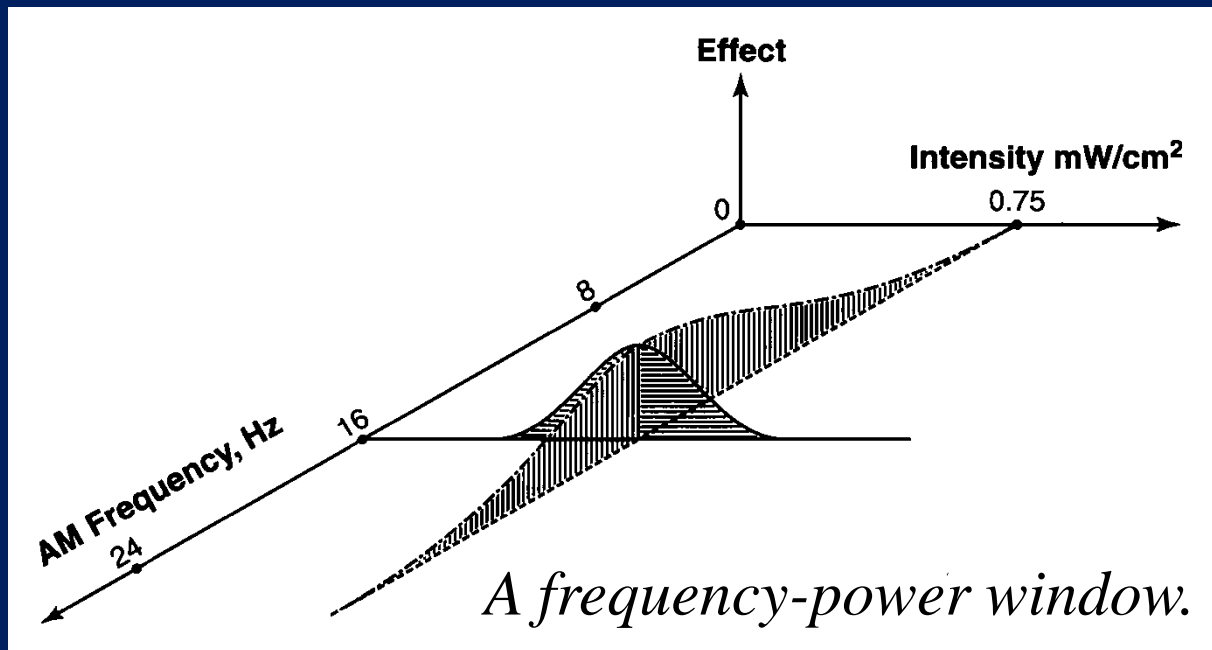
Robert O. Becker, M.D.
1923-2008

"I have no doubt in my mind that at the present time the greatest polluting element in the earth's environment is the proliferation of electromagnetic fields. "

- Robert O. Becker, M. D., Orthopedic Surgeon



Electromagnetic pollution.



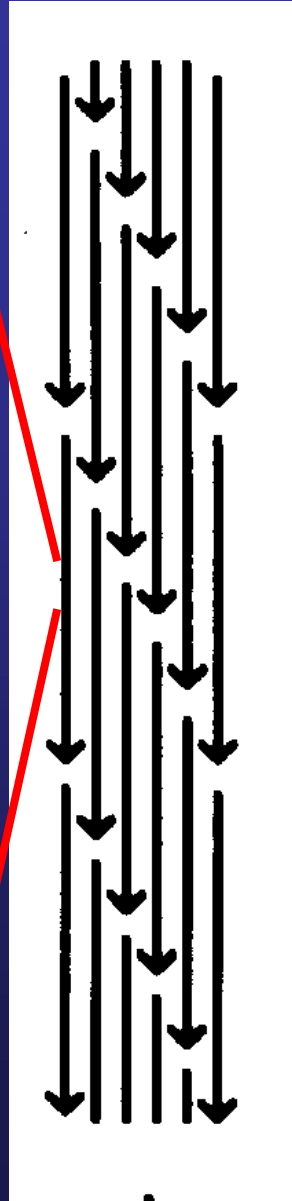
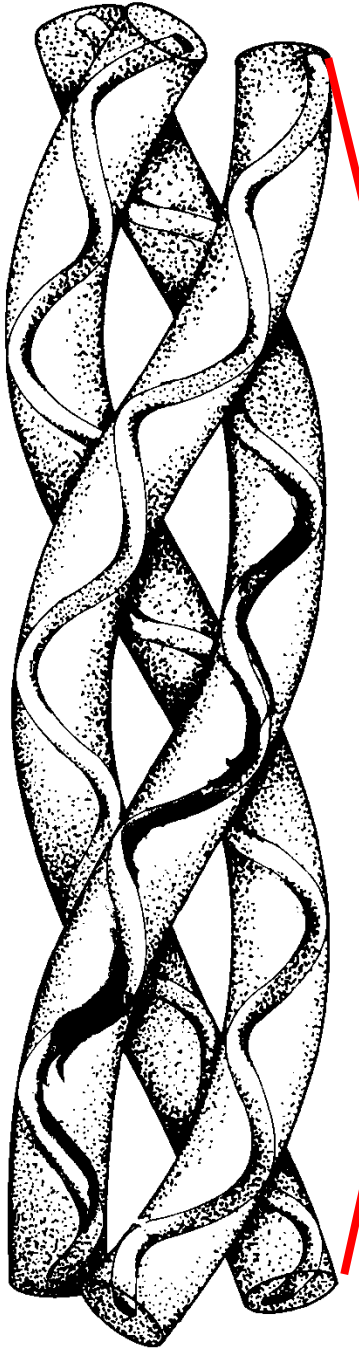
1922-2004

Modern biophysical research has confirmed that tissues respond to very tiny energy fields of the appropriate frequency, intensity, and pulse shape. If you are not getting results, try less energy or shorter treatments.

Many studies have shown that humans and other organisms are extremely sensitive to very weak non-ionizing fields. At first these findings were greeted with skepticism in the scientific community, because it seemed impossible for tissues to react to signals of such low intensity. But a symposium on the subject concluded that:

" . . . a striking range of biological interactions has been described in experiments where control procedures appear to have been adequately considered. The existence of biological effects of very weak electromagnetic fields“ suggests an extraordinarily efficient mechanism" for detecting these fields and discriminating them from much higher levels of noise.

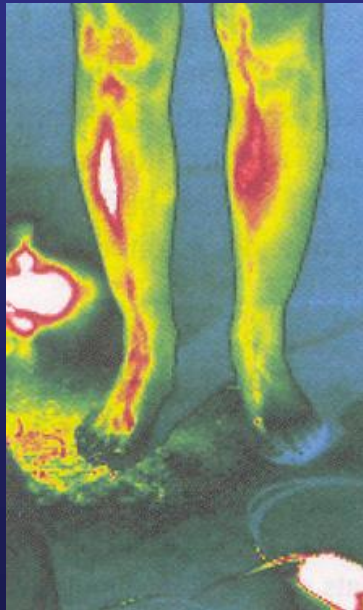
Adey, W.R. and S.M. Bawin, 1977. Brain interactions with weak electric and magnetic fields. Neurosciences Research Prog. Bull. 15(1):1-129.



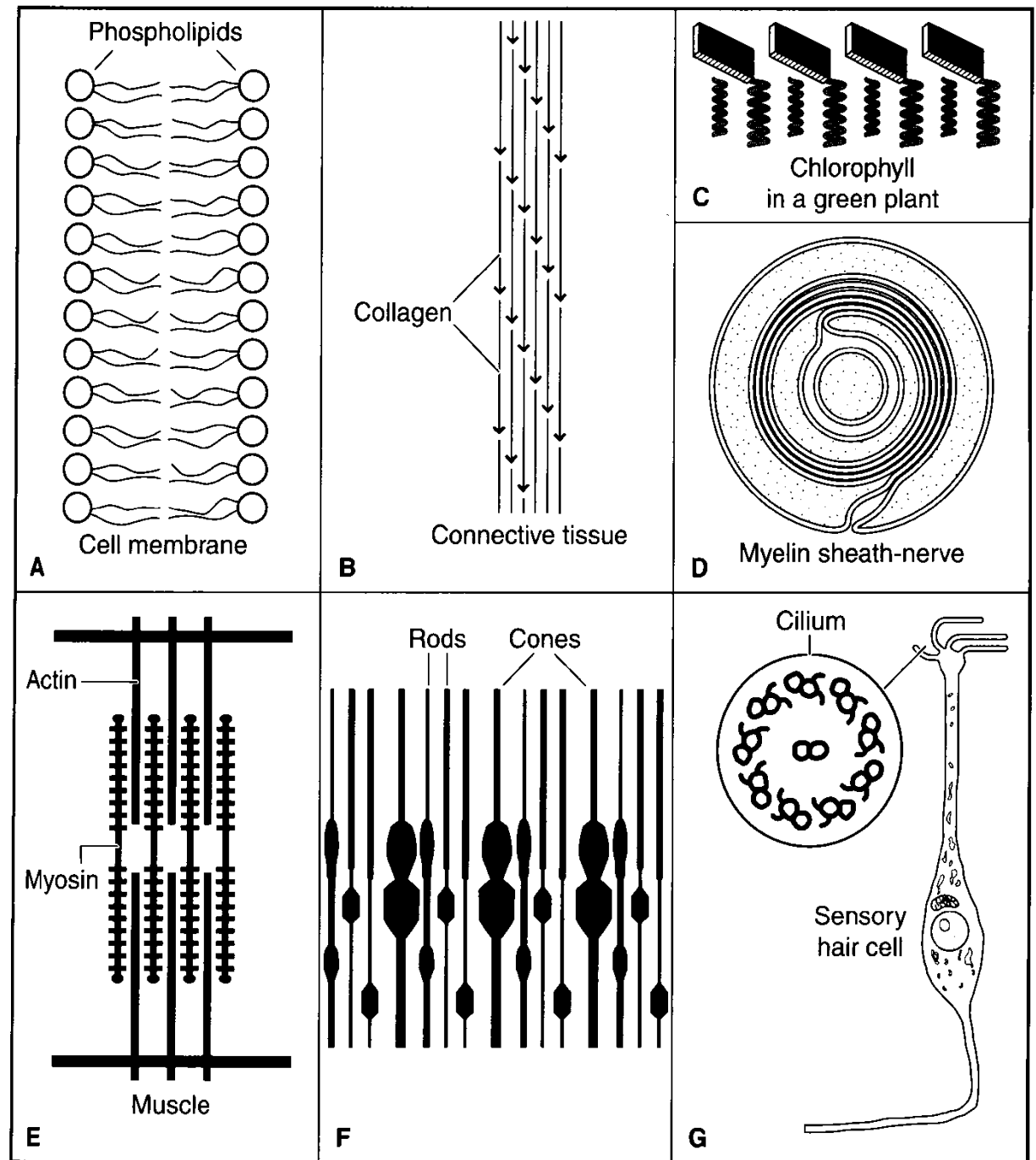
Collagen
in
crystalline
arrangement-
actually
liquid crystals

When the energy level in these liquid crystals reaches a certain level, the molecules begin to vibrate coherently, leading to the emission of coherent light.

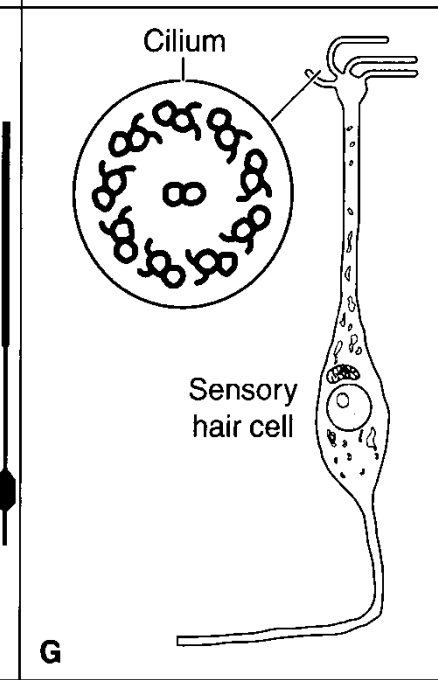
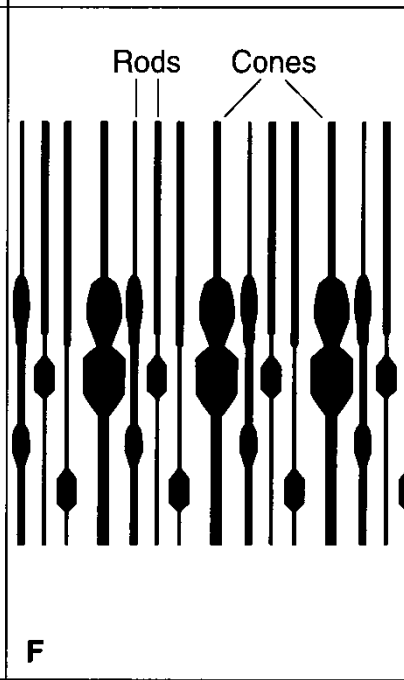
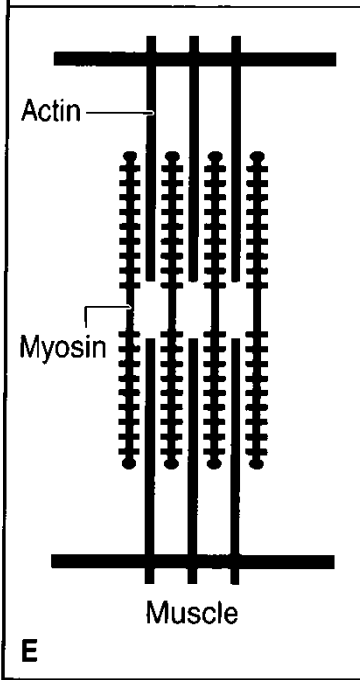
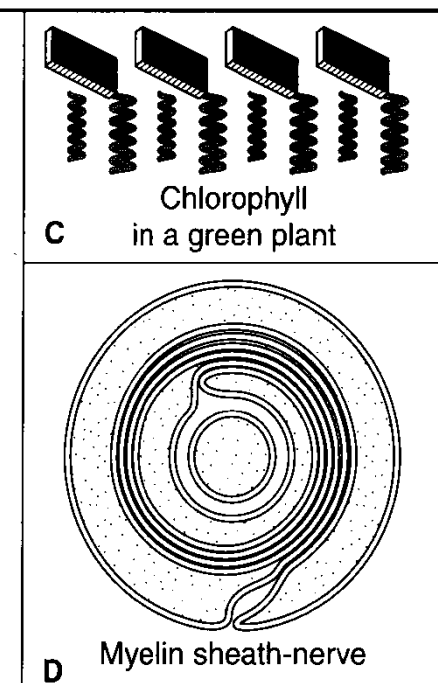
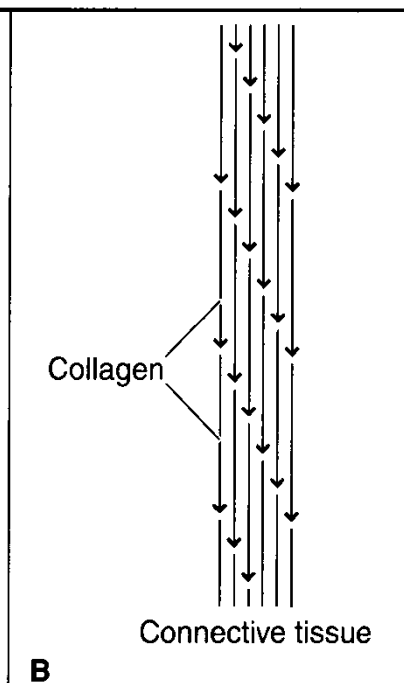
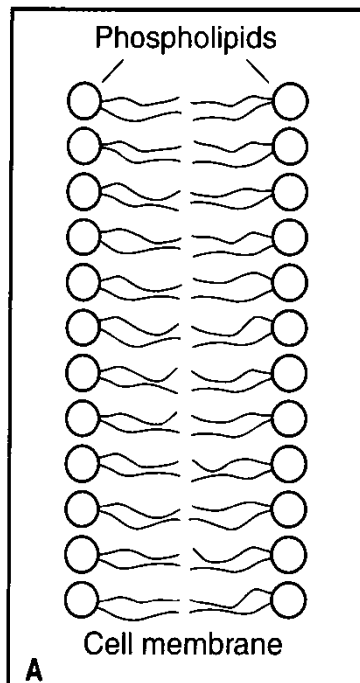
~Herbert Fröhlich



~Fritz Albert Popp



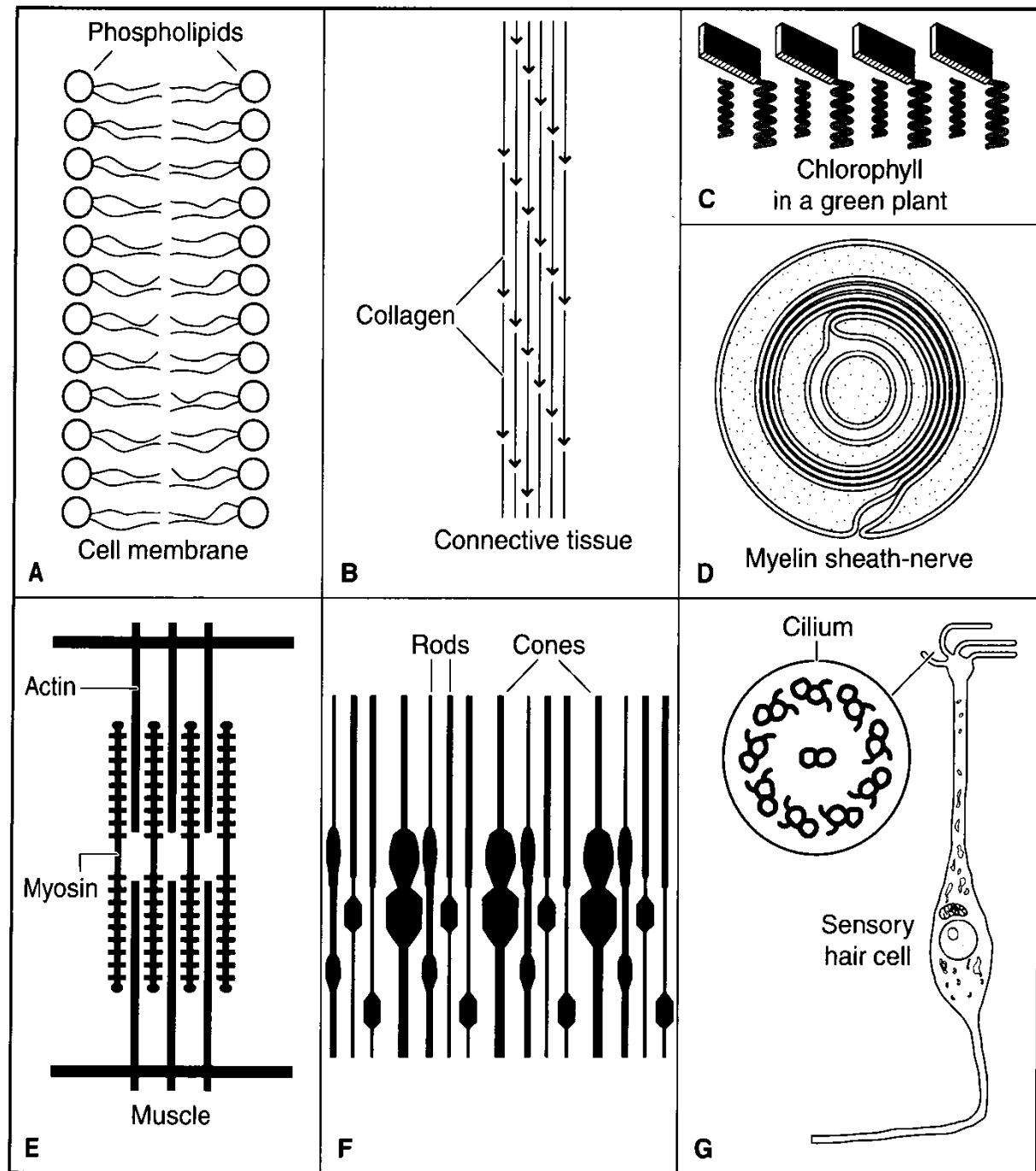
This is
true of all
crystalline
materials
in living
systems.

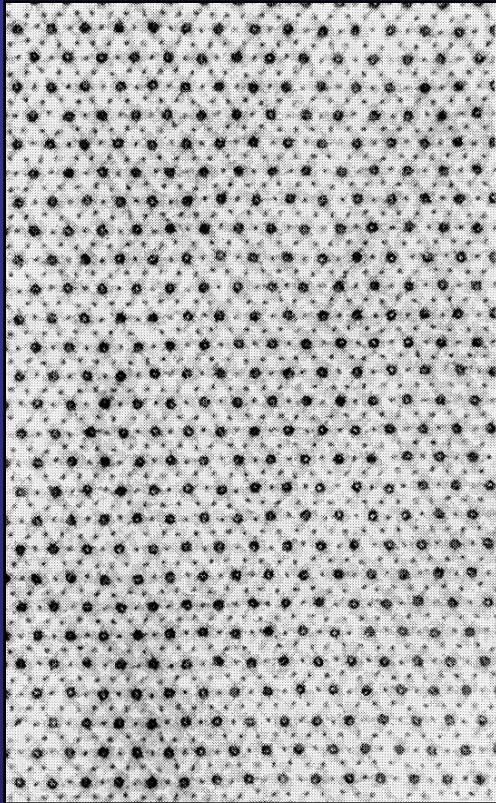


Molecular arrays in living systems: Liquid crystals:

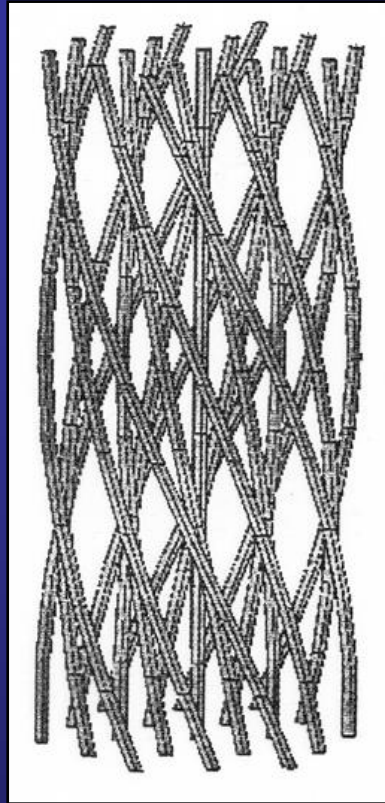
Liquid crystallinity gives organisms their characteristic flexibility, exquisite sensitivity and responsiveness, and optimizes the rapid noiseless intercommunication that enables the organism to function as a coherent coordinated whole.

~Mae-Wan Ho
Quantum coherence and conscious experience

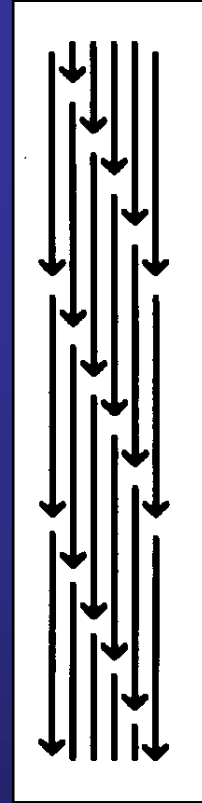




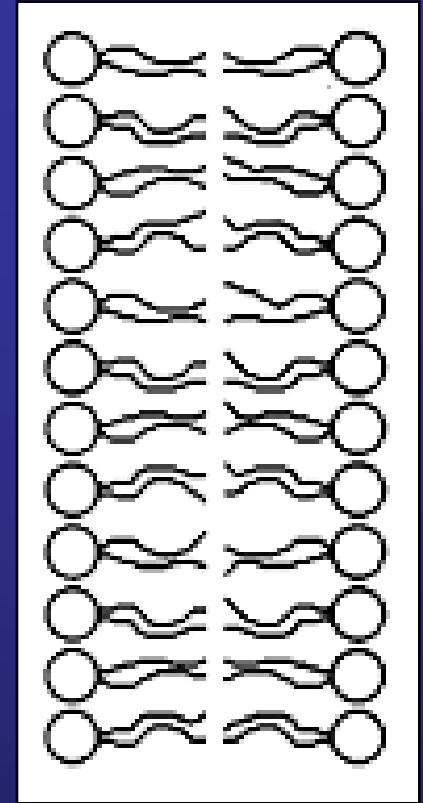
Muscle



DNA



collagen



cell membrane

Crystal from the Greek, *krustallos*

κρύσταλλο

meaning *frozen light*



**Dr Mae-Wan Ho
1941-2016**

**We do not inherit the
earth from our
ancestors; we borrow
it from our children**

- Chief Seattle



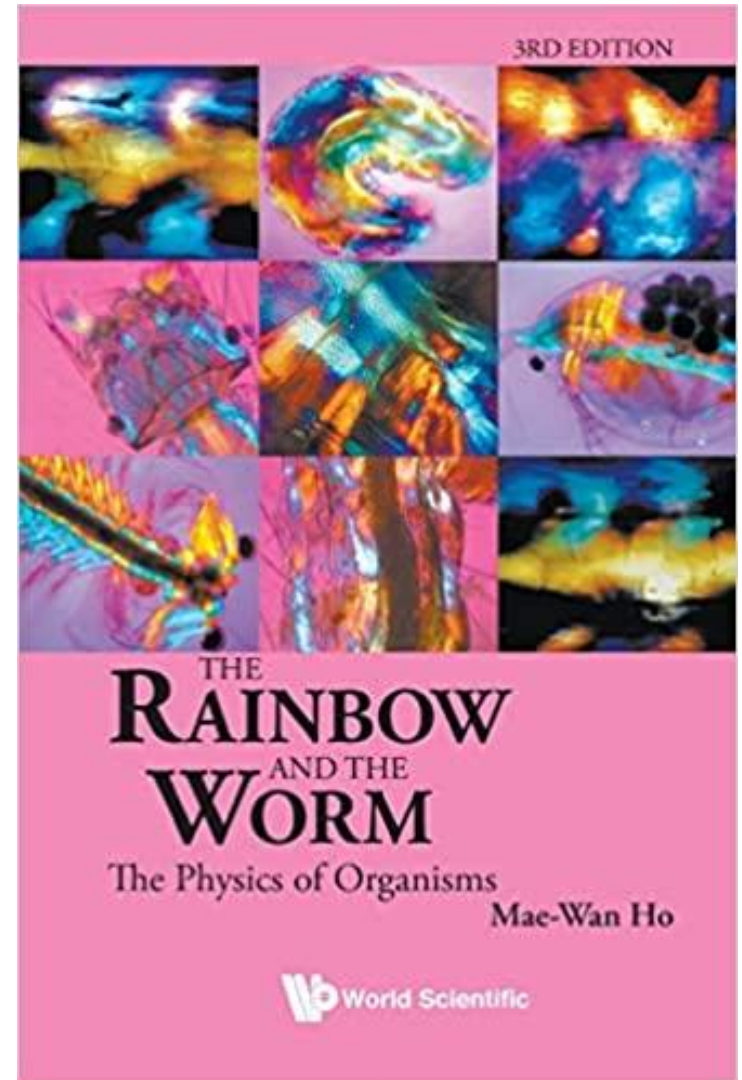
**GM agriculture is a recipe for
disaster. Future generations
will not forgive us if we do not
stop the GM takeover now.**

- Dr. Mae-Wan Ho



Mae-Wan Ho on
coherence:

<https://www.youtube.com/watch?v=DNzQIbvQ0xk>



Institute of Science in Society, London

Thank you

