

OUR BODIES ARE 99% WATER MOLECULES, AND 70% WATER BY WEIGHT. INSIDE LIVING ORGANISMS WATER ACTS VERY DIFFERENTLY THAN IT DOES IN BULK. NEXT TO SURFACES LIKE MEMBRANES OR MOLECULES, AND BORDERING VESICLES AND BUBBLES, IT ACTS NOT LIKE SOLID ICE AND NOT LIKE BULK WATER, BUT LIKE A LIQUID CRYSTAL -- A 4TH STATE OF BEING WITH UNIQUE PROPERTIES OF INTEREST TO US.

LIQUID CRYSTALLINE WATER IS BELIEVED BY "NEW CELL BIOLOGY" RESEARCHERS TO BE THE TARGET OF EMF (NATURAL AND ARTIFICIAL) BIO-EFFECTS. THIS MAP COVERS SOME OF THE INFORMATION PROVIDED IN THE OTHER WATER MAP, BUT WITH SPECIFIC ATTENTION TO LIQUID CRYSTAL (EXCLUSION ZONE) WATER. MUCH OF IT IS HIGHLY TECHNICAL, BUT FASCINATING.

**WATER RESPIRATION AND LIFE**

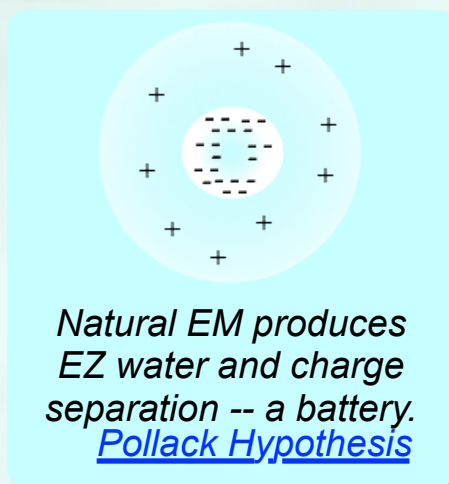
**ILLUMINATING WATER AND LIFE**

**EMF, QUANTUM COHERENT WATER**

**WATER CLUSTERS**

"The starting point of the new cell biology is the quantum electro-dynamical nature of life, based on quantum coherent water created by fluctuations of the ambient electromagnetic field... and stabilized on interfaces as liquid crystalline water. Liquid crystalline water not only provides the excited electrons and protons to fuel the redox dynamo that generates life, but also the activation energy and specific resonances that super-facilitate the numerous chemical reactions that life entails." [Mae-Wan Ho](#)

"... water turns DNA into an electrical conductor and gives it magnetic properties..." [Mae-Wan Ho](#)



Water is special

- [Water Journal](#)
- [Positive electricity](#)
- [Water has Memory](#)
- [The Story of Water](#)
- [Living cells and water](#)
- ★ [Structured cluster water, LF information](#)

Liquid crystals

[Liquid crystalline water](#)

Interfacial water

[Water in the Organism](#)

[Interfacial Water Structure](#)

★ [Ordered water, Warburg effect, cancer](#)

**EMF, INTERFACIAL WATER AND THE NEW CELL BIOLOGY**  
(EXCLUSION ZONE, EZ, LIQUID CRYSTALLINE)



[DNA Recovered in Water by EM Signals](#)  
[Mae-Wan Ho](#)

**EMF and interfacial water:**  
[RF, enzyme-water interaction](#)  
[Hydration properties may change](#)

**WHAT DOES THIS NEW SCIENCE TEACH US (THE NON-PHYSICISTS)?**

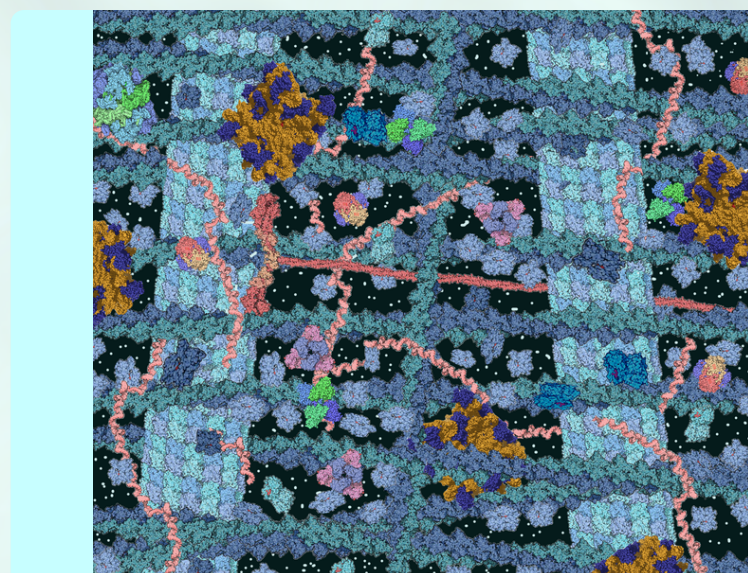
Water has many different liquid states  
Liquid water can behave like a crystal, even being coherent  
Water can be high-density or low-density  
Water shifts states rapidly  
Next to a surface, water excludes everything -- the exclusion zone (EZ)  
Effects on water -- e.g. by EMF -- may vary with surface configuration  
Effects on water -- e.g. by EMF -- may vary with state of water  
EZ thickness greater with light, especially infrared

Interfacial water, EMF



- [I-SIS EMF links](#)
- [MF changes water structure](#)
- [Pulsed ELF, interfacial water](#)
- [EMF is trapped by CD, "cannot" escape](#)
- [Quantum Coherence, EMF, Homeopathy](#)
- [Electrical susceptibility of structured water](#)
- [EMF, domain formation, aqueous solutions](#)
- [Effect of EMF is at the gas/water interface](#)
- [Mobile phones, water, solution becomes gel](#)
- [MW, water structure altered, physiol. disrupted](#)
- [Hydrated membranes, transfer of vibrational energy](#)
- [RF deliberately used in Tx for effects on water bonds](#)
- [Terahertz perturbation, interfacial water, membranes](#)
- [Transient water pores, EMF, ion membrane leakage](#)

Home: [Oscillatorium](#)  
Newest version [this map](#)  
Date of this update: 09-02-18



Intracellular matrix: a filled, complex, organized, structured, dynamic, water-mediated system of functions



**WATER SCIENCE WHO IS WHO**

Mae-Wan Ho

- [Rainbow Worm](#)
- [Living Rainbow H2O](#)
- [Life is Water Electric, Parts 1, 2](#)
- [Interfacial liquid crystalline H2O](#)

Gilbert Ling

[Debunking old theories](#)

Luc Montagnier

- [Water creates DNA](#)
- [PPT: DNA and water, EM](#)
- [Video: Informationability of Water](#)

Philippa Wiggins

[Life, two kinds of water](#)

Martin Chaplin

[Importance of Cell Water](#)

Emilio del Giudice

- [Water Respiration](#)
- [Organization of water](#)
- [Illuminating Water and Life](#)
- [Water, EM field, close to surfaces](#)
- [Water dynamics, living organisms](#)
- ★ [Water, DNA transduction, EM signals](#)



Gerald Pollack

- [Research Themes](#)
- [Interfacial water, 4th phase](#)
- [YouTube: 4th Phase Water](#)
- [Audio: Ben Greenfield Interview](#)
- [DVD: Batteries made from water](#)
- [YouTube: Electrically Structured Water](#)
- [High pressure and high O2 increase EZ size](#)
- [YouTube: 4th Phase of Water, Role in Biology](#)

Jacques Benveniste

[Nature](#)

