

# NOBEL LAUREATE EXPLAINS THE PRINCIPLES OF HOMEOPATHY

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This paper aims at putting to rest the voices of skeptics, wasting time, on attempting to prove either Similia principle is absurd, Homeopathy doesn't work or the High dilution has nothing in it.

**Nobel Laureate** Luc Montagnier is a French virologist and joint recipient of the 2008 Nobel Prize in Physiology or Medicine, for his discovery of the Human Immunodeficiency Virus (HIV) in his recent publication **Electromagnetic Signals Are Produced by Aqueous Nanostructures Derived from Bacterial DNA Sequences**; Author: Luc MONTAGNIER et al.; *Interdiscip Sci Comput Life Sci* (2009) 1: 81–90; 6 January 2009 has brought out fantastic results explaining principles of Homoeopathy. We have used some excerpts from the above research to show the facts in favoring Homeopathy.

## Some terms used in the paper:

EMS (Electro Magnetic Signals)

Loud or Positive (Emitting EMS)

Silent or Negative (not emitting EMS)

## **In Support of serially agitated dilutions:**

Luc MONTAGNIER et al. discovered a novel property of DNA that is the capacity of some sequences to emit **electromagnetic waves** in resonance after excitation by the ambient electromagnetic background.

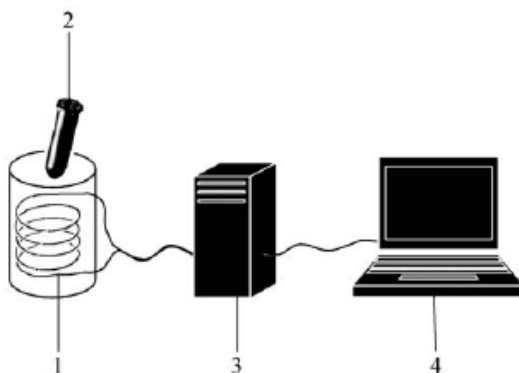


Fig. 1 Device for the capture and analysis of electromagnetic signals (EMS): (1) Coil: a bobbin of copper wire, impedance 300 Ohms; (2) Plastic stoppered tube containing 1 mL of the solution to be analyzed; (3) Amplifier; (4) Computer with softwares.

Moreover, a number of physical studies have reported that **water molecules can form long polymers** of dipoles associated by hydrogen bonds (*Ruan et al., 2004; Wernet et al., 2004*).

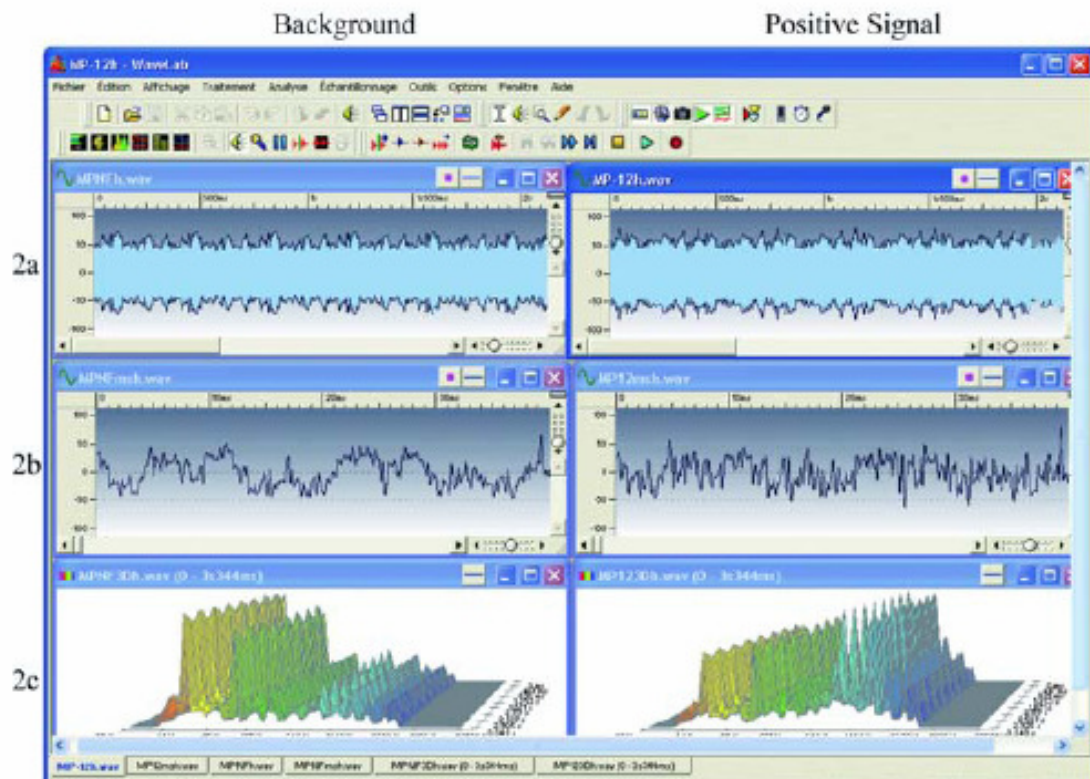
Luc MONTAGNIER et al. detected the **same EMS in the plasma** and in the **DNA extracted from the plasma of patients** suffering of Alzheimer, Parkinson disease, multiple Sclerosis and Rheumatoid Arthritis.

**Comment:** These diseases are known to be non-infective, but, their blood samples are emitting the EMS similar to EMS of DNA of Bacteria. This suggests that in the patients previously infected, but not treated properly; retain the EMS of infection, which is capable of producing the above mentioned non-infective disease.


Luc MONTAGNIER et al. detected the capacity of some bacterial DNA sequences to **induce electromagnetic waves at high aqueous dilutions** has been found. It appears to be a resonance phenomenon triggered by the **ambient electromagnetic background** of very low frequency waves.

**Comment:** This explains how 1 part of medicine induces its property in the 99 parts of ambient background (water/alcohol/lactose).

Luc MONTAGNIER et al. Filtrated of a culture supernatant of Mycoplasma pirum, a microorganism of about 300 nM in size, through filters of 100 nM or 20 nM porosities, yielded apparently **sterile fluid**. The first low dilutions were usually negative, showing the background noise only. But, **Positive signals** were **obtained** at dilutions ranging from  $10^{-5}$  to  $10^{-8}$  or  $10^{-12}$ . Higher dilutions were again negative.



An aliquot of the 20 nM filtrate was layered on the top of a 5-20% (w/v) **sucrose gradient in water** and **centrifuged** for 2 hours at **35,000 rpm** in a swinging bucket



rotor. **10,000 rpm** for 15 minutes, the supernatant was filtered on 450 nM filter and the resulting filtrate was filtered again on a 100 nM filter. The final **filtrate was found sterile**, when plated on nutrient agar medium and was analyzed for electromagnetic wave emission, as described above for *M. pirum*. Signal producing dilutions usually range from  $10^{-8}$  to  $10^{-12}$ , with **profiles** upon Fourier transformation, **similar to those of M. Pirum**.

**Comment:** The above paragraph explains how serially diluted and agitated Homeopathic dilutions, retain the property of the original drug in the form of EMS in high dilutions (water memory), where the probability of finding the original drug molecule is nil. *“Although homeopathy is not mentioned anywhere in the article, the researchers used aqueous solutions that were agitated and serially diluted (the researchers note that the solutions were “strongly agitated” and that this step was “critical for the generation of signals”)*” – Dana Ullman, MPH.

In one experiment, some **very high dilutions were found positive**, ranging from  $10^{-9}$  to  $10^{-18}$  (9x to 18x potency). Lower dilutions, which logically should contain a larger number of signal producing structures, were “silent”. When we added 0.1 mL of a negative low dilution (e.g.  $10^{-3}$ ) to 0.4 mL or 0.9 mL of a positive dilution ( $10^{-8}$ ), the latter became negative. This indicates that the “silent” low dilutions are self-inhibitory, probably by **interference of the multiple sources emitting** in the same wave length or slightly out of phase, like a **radio jamming**. Alternatively, the abundance of nanostructures can form a gel in water and therefore are prevented to vibrate.

At the high dilution of  $10^{-13}$  (13x potency), calculations indicate that **there is no DNA molecule** of MW larger than 105 in the solution, making it **unlikely that the EMS are produced** directly by the DNA itself, but rather by the self-sustained nanostructures induced by the DNA.

**Comment:** Therefore, it clearly shows that a serially agitated high dilution, not containing the original molecule of drug, with which the diluents (water/alcohol) was diluted & agitated, by means of succussion, retains the property of the drug. And therefore, the dilution is capable of producing sickness & hence capable to cure. In the 5th edition of the Organon, Hahnemann clearly described the concept of potentisation in §269. He provided the first specific instructions on dynamization in §270-271. “This remarkable change in the **qualities of natural bodies** develops the latent, hitherto unperceived, as if slumbering hidden, dynamic ( § 11 ) powers which influence the life principle, change the well-being of animal life. This is effected by mechanical action upon their smallest particles by **means of rubbing and shaking** and through the addition of an indifferent substance, dry or fluid, are separated from each other. This process is called dynamizing, potentizing (development of medicinal power) and the products are dynamizations or potencies in different degrees ” [ § 269 ].

### **SIMILIA SIMILIBUS CURRANTUR** (*Likes are cured by likes*)

A donor tube of a low “silent (not emitting EMS)” dilution of *E. Coli* ( $10^{-3}$ ) i.e. 3c was placed side by side close to a receiver tube of the positive “loud (emitting EMS)” highest

dilution of the **same preparation** ( $10^{-9}$ ). Both tubes were placed in a mumetal box for 24 hours at room temperature, so that the tubes were not exposed to external electromagnetic noise, and only exposed to the signals generated by the structures present in the tubes themselves. The tubes were then read again by the signal detecting device, the donor tube was still silent (not emitting EMS); however the **receiver tube which was emitting EMS became also silent** (not emitting EMS).

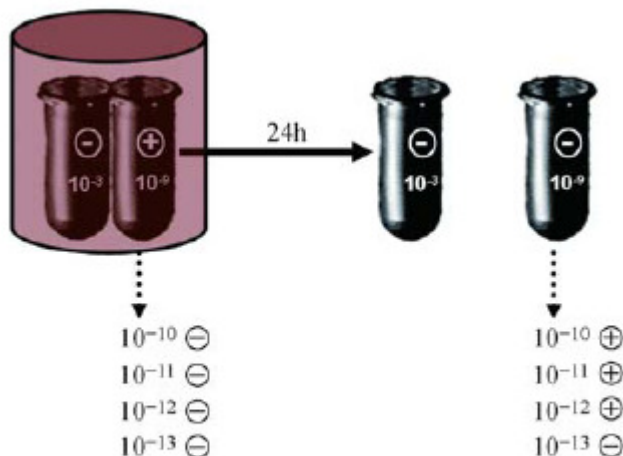


Fig. 6 Cross-talk between dilutions (from an *E. Coli* 0.1  $\mu$  filtrate), see explanation in the text.


Moreover, when further dilutions were made from the receiver tube 10c, 11c, 12c ( $10^{-10}$ ,  $10^{-11}$ ,  $10^{-12}$ ), these dilutions had become positive (emitting EMS). These results suggest that the receiver tube was made silent (not emitting EMS) by formation of an excess of new nanostructures, which could emit signals upon further dilution. See Fig.6

**Comment:** Hahnemann suggested in Aphorism §45 “Two diseases, differing, it is true, in kind, but very similar in their phenomena and effects and in the sufferings and symptoms they severally produce, invariably annihilate one another whenever they meet together in the organism; the stronger disease, annihilates the weaker” the nature will not allow two similar diseases to exist in the body at the same time. Thus homeopaths will introduce a similar artificial disease into the body which will push the original one out.

To unscientific minds it may suggest that High dilutions are capable of doing nothing. But, if we look at below mentioned example, we will realize that high diluted or single molecule can actually do lot of things:

Beta-endorphins are known to modulate natural killer-cell activity in dilutions of 10-18. Interleukin-1, an important part of the immune system, has been found to exhibit increased T-cell clone proliferation at <10-19.

Pheromones emitted by animals and insects, result in hypersensitive reactions with even a single molecule. (Scientists, as on date, have no means to assess the effects of any thing which has no molecule.)



(-Dana Ullman, *Homeopathic Medicine: Making the Case for Nanopharmacology Nutrition Science News Spring 2002*)

Now, let me ask some questions to the skeptics of Homeopathy.

1. Did anyone see X-Ray? **No**, but we can see results, on the X-Ray plate, this is its medium to manifest.
2. Did any one see electron flowing in the wires? **No**, but we can see the bulb glowing, when we switch it on. That means we can see the result through an appropriate medium.
3. Can any one see the data written on the CD or Pen drive or for that matter on the Hard drive, with naked eyes? **No**, but it can be seen if connected to an appropriate computer, through **appropriate medium**.
4. When a data is written on the floppy, pen drive or CD. Does it increase the weight of the medium? Is there any increase in molecule? **No**, if there is no change in the weight of the medium then, how do we say that the data is written. But, we can see the data in a specific medium that is Computer.
5. 5 Belladonna berries are enough to kill a child. Cattle and rabbits are not affected by the Belladonna poison, because they are not the right medium for Belladonna to manifest.

Therefore, everything on the earth needs an appropriate medium to manifest itself.

Similarly, is there any molecule or original drug substance in a **Homeopathic Dilution** (Potency) can you measure it or see it? **No**, but, what you can see is the result. Result in the form of cure of sickness. You can see the affect Homeopathic dilution, only, if you place it in an appropriate medium, like Susceptible Human Body.

This is the reason why double-blind trails are not applicable to Homeopathy. Not every person with fever would respond to Arsenic, since, he may not be the right medium for the Homeopathic Dilution to act.

*Luc MONTAGNIER et al. also observed that the EM signal was destroyed by heating or freezing the sample (a common observation that homeopaths have also found in their medicines). – Dana Ullman, MPH.*

Through this paper it is pretty clear that the principles of Homeopathy holds true. And different scientists of different faculties through out the world have proved it to be true. Now it is unto the skeptics **to believe it or not**.

***“All the evidence concerning the universe has not yet been collected, so there's still hope”***

***Absence of evidence is not the evidence of absence.***